

## 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\_wp096 (Report 1 of 2)

Request ID: cder mpl1p wp096

**Request Description:** The goal of this query was to characterize the capture of well-known confounding characteristics in the Sentinel Distributed Database (SDD).

Sentinel Routine Querying Module: Cohort Identification and Descriptive Analysis (CIDA) module, version 14.0.1

**Data Source:** We distributed this request to 14 Sentinel Data Partners on December 9, 2024. The study period included available data from January 1, 2010 to December 31, 2023. Please see Appendix A for a list of dates of available data for each Data Partner. This is report one out of two and includes data from all 14 Sentinel Data Partners, out of which, four Data Partners impute race.

**Study Design:** This request was designed to describe cohorts with prevalent and incident confounding conditions; diagnosis codes for a Body Mass Index (BMI) range; and non-missing values for race and imputed race. Except for the non-missing race and imputed race cohorts, the number of qualifying occurrences (episodes) of the cohort-defining variables were stratified by calendar year, age group \* calendar year, and sex \* calendar year. For the non-missing race and imputed race cohorts, individuals in each race/imputed race category were stratified by sex and age.

This is a Type One request in the Query Request Package (QRP) documentation.

#### **Cohort Defining Conditions:**

**Group One**: Separate prevalent and incident cohorts were identified for occurrences of codes for the following conditions: obesity, overweight, smoking, alcohol abuse or dependence, drug abuse or dependence, coronary artery bypass grafting (CABG) or percutaneous transluminal coronary angioplasty (PTCA), and sudden cardiac arrest. Conditions were defined using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology (CPT), Healthcare Common Procedure Coding System (HCPCS), and National Drug Codes (NDC). Please see Appendix B for a list of ICD-9-CM, ICD-10-CM, and ICD-10-PCS codes; Appendix C for a list of generic and brand names of medical products; and Appendix D for a list of ICD-10-PCS, CPT, and HCPCS codes used to define these cohorts.

**Group Two**: Separate cohorts were identified for all occurrences of any ICD-9-CM or ICD-10-CM diagnosis codes that indicates any range of BMI, a range of BMI classified as obesity, and a range of BMI classified as overweight. Please see Appendix B for a list of ICD-9-CM and ICD-10-CM codes used to define these cohorts.

**Group Three**: Separate cohorts of members with non-missing values for reported race and imputed race between January 1, 2020 and December 31, 2021 were identified.

For all cohorts except Group Three, the dates of all qualifying occurrences of cohort-defining codes in claims data served as index dates. For Group Three (race cohorts), the dates of the earliest encounter between January 1, 2020 and December 31, 2021 served as the index dates.

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## Overview for Request: cder\_mpl1p\_wp096 (Report 1 of 2)

#### **Cohort Eligibility Criteria:**

Individuals were required to be continuously enrolled in plans with medical and drug coverage for at least 365 days prior to the index dates, during which gaps in coverage of up to 45 days were allowed. For the incident cohorts, episodes with evidence of the cohort defining condition in the 365 days prior to the index date were not considered valid. The following age groups were included: 0-17, 18-43, 44-64, and 65+ years.

**Individual Characteristics:** The following characteristics were assessed for unique individuals in each cohort on their first valid index date: sex, race, imputed race, and Hispanic origin. Age and the year of cohort entry were assessed on each valid index date.

Please refer to Appendices E through H for the specifications of parameters used in this request, baseline characteristics used in this request, and design diagrams.

**Limitations:** Algorithms used to define exposures and inclusion criteria are imperfect; thus, misclassification is possible. Therefore, data should be interpreted with this limitation in mind.

**Notes:** Please contact the Sentinel Operations Center (info@sentinelsystem.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.sentinelsystem.org/projects/SENTINEL/repos/sentinel-routine-querying-tool-documentation/browse).

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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).

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**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 - i**ndicator 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.

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<sup>\*</sup>All terms may not be used in this report



Table 1a. Aggregated Characteristics of Incident Obesity and Prevalent Obesity in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|   | Incident Obesity |           | Prevalent   | Prevalent Obesity |  |  |
|---|------------------|-----------|-------------|-------------------|--|--|
| Patient Characteristics <sup>1</sup>      | Number           | Percent   | Number      | Percent           |  |  |
| Unique patients                           | 41,808,406       | 100.0%    | 48,379,256  | 100.0%            |  |  |
| Episodes                                  | 62,961,256       | 100.0%    | 316,262,801 | 100.0%            |  |  |
| Demographic Characteristics               | Mean             | Deviation | Mean        | Deviation         |  |  |
| Age (years)                               | 50.3             | 15.9      | 58          | 14.4              |  |  |
| Age                                       | Number           | Percent   | Number      | Percent           |  |  |
| 0-17 years                                | 9,648,562        | 15.3%     | 17,712,736  | 5.6%              |  |  |
| 18-43 years                               | 13,357,566       | 21.2%     | 52,948,650  | 16.7%             |  |  |
| 44-64 years                               | 17,280,182       | 27.4%     | 98,102,309  | 31.0%             |  |  |
| ≥ 65 years                                | 22,674,946       | 36.0%     | 147,499,106 | 46.6%             |  |  |
| Sex                                       |                  |           |             |                   |  |  |
| Female                                    | 24,192,599       | 57.9%     | 28,222,613  | 58.3%             |  |  |
| Male                                      | 17,615,807       | 42.1%     | 20,156,643  | 41.7%             |  |  |
| Race <sup>2</sup>                         |                  |           |             |                   |  |  |
| American Indian or Alaska Native          | 259,113          | 0.6%      | 287,499     | 0.6%              |  |  |
| Asian                                     | 675,302          | 1.6%      | 743,231     | 1.5%              |  |  |
| Black or African American                 | 5,098,247        | 12.2%     | 6,080,928   | 12.6%             |  |  |
| Multi-racial                              | 316,977          | 0.8%      | 362,532     | 0.7%              |  |  |
| Native Hawaiian or Other Pacific Islander | 107,175          | 0.3%      | 121,298     | 0.3%              |  |  |
| Unknown                                   | 14,754,740       | 35.3%     | 16,913,898  | 35.0%             |  |  |
| White                                     | 20,596,852       | 49.3%     | 23,869,870  | 49.3%             |  |  |
| Hispanic Origin <sup>2</sup>              |                  |           |             |                   |  |  |
| Yes                                       | 4,552,086        | 10.9%     | 5,006,258   | 10.3%             |  |  |
| No  | 25,065,865       | 60.0%     | 28,880,780  | 59.7%             |  |  |
| Unknown                                   | 12,190,455       | 29.2%     | 14,492,218  | 30.0%             |  |  |
| Year                                      |                  |           |             |                   |  |  |
| 2010                                      | 748,283          | 1.2%      | 2,122,375   | 0.7%              |  |  |
| 2011                                      | 1,751,803        | 2.8%      | 6,607,460   | 2.1%              |  |  |
| 2012                                      | 2,033,790        | 3.2%      | 7,960,352   | 2.5%              |  |  |
| 2013                                      | 2,319,235        | 3.7%      | 9,562,900   | 3.0%              |  |  |
| 2014                                      | 2,835,665        | 4.5%      | 12,219,264  | 3.9%              |  |  |
| 2015                                      | 3,670,833        | 5.8%      | 16,041,708  | 5.1%              |  |  |
| 2016                                      | 4,613,543        | 7.3%      | 21,318,100  | 6.7%              |  |  |
| 2017                                      | 6,269,491        | 10.0%     | 29,111,667  | 9.2%              |  |  |
| 2018                                      | 7,044,257        | 11.2%     | 34,421,523  | 10.9%             |  |  |
| 2019                                      | 7,114,361        | 11.3%     | 37,124,507  | 11.7%             |  |  |

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Table 1a. Aggregated Characteristics of Incident Obesity and Prevalent Obesity in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|      | Incident Obesity |         | Prevalent Obesity |         |
|------|------------------|---------|-------------------|---------|
|      | Number           | Percent | Number            | Percent |
| 2020 | 6,881,625        | 10.9%   | 34,580,403        | 10.9%   |
| 2021 | 8,628,575        | 13.7%   | 40,775,423        | 12.9%   |
| 2022 | 4,514,456        | 7.2%    | 31,395,616        | 9.9%    |
| 2023 | 4,535,339        | 7.2%    | 33,021,503        | 10.4%   |

<sup>&</sup>lt;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.

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<sup>&</sup>lt;sup>2</sup>Race and Hispanic status are typically populated using self-report data from source and are classified as "Unknown" if not reported or provided.



Table 1b. Aggregated Characteristics of Incident Overweight and Prevalent Overweight in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|   | Incident   | : Overweight       | Prevalen   | t Overweight       |
|---|------------|--------------------|------------|--------------------|
| Patient Characteristics <sup>1</sup>      | Number     | Percent            | Number     | Percent            |
| Unique patients                           | 24,525,780 | 100.0%             | 26,351,868 | 100.0%             |
| Episodes                                  | 32,452,570 | 100.0%             | 91,347,478 | 100.0%             |
| Demographic Characteristics               | Mean       | Standard Deviation | Mean       | Standard Deviation |
| Age (years)                               | 53.6       | 16.3               | 61.6       | 14.6               |
| Age                                       | Number     | Percent            | Number     | Percent            |
| 0-17 years                                | 5,155,657  | 15.9%              | 6,985,067  | 7.6%               |
| 18-43 years                               | 5,223,686  | 16.1%              | 10,611,268 | 11.6%              |
| 44-64 years                               | 7,252,595  | 22.3%              | 19,420,592 | 21.3%              |
| ≥ 65 years                                | 14,820,632 | 45.7%              | 54,330,551 | 59.5%              |
| Sex                                       |            |                    |            |                    |
| Female                                    | 13,363,116 | 54.5%              | 14,350,232 | 54.5%              |
| Male                                      | 11,162,664 | 45.5%              | 12,001,636 | 45.5%              |
| Race <sup>2</sup>                         |            |                    |            |                    |
| American Indian or Alaska Native          | 94,624     | 0.4%               | 98,835     | 0.4%               |
| Asian                                     | 660,205    | 2.7%               | 712,512    | 2.7%               |
| Black or African American                 | 2,376,474  | 9.7%               | 2,570,045  | 9.8%               |
| Multi-racial                              | 177,403    | 0.7%               | 190,056    | 0.7%               |
| Native Hawaiian or Other Pacific Islander | 61,028     | 0.2%               | 67,419     | 0.3%               |
| Unknown                                   | 8,026,163  | 32.7%              | 8,629,745  | 32.7%              |
| White                                     | 13,129,883 | 53.5%              | 14,083,256 | 53.4%              |
| Hispanic Origin <sup>2</sup>              |            |                    |            |                    |
| Yes                                       | 2,284,726  | 9.3%               | 2,411,632  | 9.2%               |
| No  | 15,177,101 | 61.9%              | 16,196,494 | 61.5%              |
| Unknown                                   | 7,063,953  | 28.8%              | 7,743,742  | 29.4%              |
| Year                                      |            |                    |            |                    |
| 2010                                      | 136,080    | 0.4%               | 213,949    | 0.2%               |
| 2011                                      | 351,189    | 1.1%               | 562,951    | 0.6%               |
| 2012                                      | 540,976    | 1.7%               | 1,009,124  | 1.1%               |
| 2013                                      | 757,300    | 2.3%               | 1,585,129  | 1.7%               |
| 2014                                      | 1,105,410  | 3.4%               | 2,472,538  | 2.7%               |
| 2015                                      | 1,661,011  | 5.1%               | 3,837,849  | 4.2%               |
| 2016                                      | 2,360,162  | 7.3%               | 5,853,028  | 6.4%               |
| 2017                                      | 3,439,218  | 10.6%              | 8,870,231  | 9.7%               |
| 2018                                      | 4,004,380  | 12.3%              | 11,228,763 | 12.3%              |
| 2019                                      | 4,125,158  | 12.7%              | 12,301,982 | 13.5%              |

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Table 1b. Aggregated Characteristics of Incident Overweight and Prevalent Overweight in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|      | Incident O | Incident Overweight |            | verweight |
|------|------------|---------------------|------------|-----------|
|      | Number     | Percent             | Number     | Percent   |
| 2020 | 3,580,069  | 11.0%               | 10,225,227 | 11.2%     |
| 2021 | 4,412,709  | 13.6%               | 11,969,351 | 13.1%     |
| 2022 | 2,938,644  | 9.1%                | 10,358,067 | 11.3%     |
| 2023 | 3,040,264  | 9.4%                | 10,859,289 | 11.9%     |

<sup>&</sup>lt;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.

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<sup>&</sup>lt;sup>2</sup>Race and Hispanic status are typically populated using self-report data from source and are classified as "Unknown" if not reported or provided.



Table 1c. Aggregated Characteristics of Incident Smoking and Prevalent Smoking in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|   | Incident   | Incident Smoking |             | Prevalent Smoking |  |
|---|------------|------------------|-------------|-------------------|--|
| Patient Characteristics <sup>1</sup>      | Number     | Percent          | Number      | Percent           |  |
| Unique patients                           | 40,664,965 | 100.0%           | 46,526,773  | 100.0%            |  |
| Episodes                                  | 63,427,747 | 100.0%           | 307,530,400 | 100.0%            |  |
|   |            | Standard         |             | Standard          |  |
| Demographic Characteristics               | Mean       | Deviation        | Mean        | Deviation         |  |
| Age (years)                               | 59.6       | 14.5             | 61.9        | 13.9              |  |
| Age                                       | Number     | Percent          | Number      | Percent           |  |
| 0-17 years                                | 1,778,636  | 2.8%             | 2,764,831   | 0.9%              |  |
| 18-43 years                               | 12,930,248 | 20.4%            | 48,112,561  | 15.6%             |  |
| 44-64 years                               | 17,066,166 | 26.9%            | 98,477,550  | 32.0%             |  |
| ≥ 65 years                                | 31,652,697 | 49.9%            | 158,175,458 | 51.4%             |  |
| Sex                                       |            |                  |             |                   |  |
| Female                                    | 20,416,148 | 50.2%            | 23,406,542  | 50.3%             |  |
| Male                                      | 20,248,817 | 49.8%            | 23,120,231  | 49.7%             |  |
| Race <sup>2</sup>                         |            |                  |             |                   |  |
| American Indian or Alaska Native          | 300,289    | 0.7%             | 341,807     | 0.7%              |  |
| Asian                                     | 683,240    | 1.7%             | 747,305     | 1.6%              |  |
| Black or African American                 | 4,407,174  | 10.8%            | 5,217,833   | 11.2%             |  |
| Multi-racial                              | 220,891    | 0.5%             | 245,618     | 0.5%              |  |
| Native Hawaiian or Other Pacific Islander | 92,196     | 0.2%             | 103,650     | 0.2%              |  |
| Unknown                                   | 9,981,295  | 24.5%            | 11,318,444  | 24.3%             |  |
| White                                     | 24,979,880 | 61.4%            | 28,552,116  | 61.4%             |  |
| Hispanic Origin <sup>2</sup>              |            |                  |             |                   |  |
| Yes                                       | 1,796,548  | 4.4%             | 1,993,307   | 4.3%              |  |
| No  | 28,941,696 | 71.2%            | 33,078,094  | 71.1%             |  |
| Unknown                                   | 9,926,721  | 24.4%            | 11,455,372  | 24.6%             |  |
| Year                                      |            |                  |             |                   |  |
| 2010                                      | 878,718    | 1.4%             | 2,119,045   | 0.7%              |  |
| 2011                                      | 2,390,006  | 3.8%             | 8,253,797   | 2.7%              |  |
| 2012                                      | 2,708,061  | 4.3%             | 9,902,093   | 3.2%              |  |
| 2013                                      | 2,984,761  | 4.7%             | 11,699,685  | 3.8%              |  |
| 2014                                      | 3,646,470  | 5.7%             | 14,670,353  | 4.8%              |  |
| 2015                                      | 4,391,424  | 6.9%             | 18,286,217  | 5.9%              |  |
| 2016                                      | 5,261,178  | 8.3%             | 24,434,420  | 7.9%              |  |
| 2017                                      | 6,280,205  | 9.9%             | 30,296,214  | 9.9%              |  |
| 2018                                      | 6,670,481  | 10.5%            | 33,638,742  | 10.9%             |  |
| 2019                                      | 6,742,942  | 10.6%            | 35,798,207  | 11.6%             |  |

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Table 1c. Aggregated Characteristics of Incident Smoking and Prevalent Smoking in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|      | Incident Smoking |         | Prevalent Smoking |         |
|------|------------------|---------|-------------------|---------|
|      | Number           | Percent | Number            | Percent |
| 2020 | 5,914,530        | 9.3%    | 32,278,967        | 10.5%   |
| 2021 | 6,981,824        | 11.0%   | 34,533,664        | 11.2%   |
| 2022 | 4,357,502        | 6.9%    | 25,859,923        | 8.4%    |
| 2023 | 4,219,645        | 6.7%    | 25,759,073        | 8.4%    |

<sup>&</sup>lt;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.

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<sup>&</sup>lt;sup>2</sup>Race and Hispanic status are typically populated using self-report data from source and are classified as "Unknown" if not reported or provided.



Table 1d. Aggregated Characteristics of Incident Alcohol Abuse or Dependence and Prevalent Alcohol Abuse or Dependence in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|   | Incident Alcohol | Abuse or Dependence | Prevalent Alcohol | Abuse or Dependence |
|---|------------------|---------------------|-------------------|---------------------|
| Patient Characteristics <sup>1</sup>      | Number           | Percent             | Number            | Percent             |
| Unique patients                           | 8,161,856        | 100.0%              | 9,343,054         | 100.0%              |
| Episodes                                  | 10,133,623       | 100.0%              | 101,699,694       | 100.0%              |
| Demographic Characteristics               | Mean             | Standard Deviation  | Mean              | Standard Deviation  |
| Age (years)                               | 52.8             | 15                  | 50.1              | 13.7                |
| Age                                       | Number           | Percent             | Number            | Percent             |
| 0-17 years                                | 294,122          | 2.9%                | 1,939,010         | 1.9%                |
| 18-43 years                               | 3,068,099        | 30.3%               | 35,058,298        | 34.5%               |
| 44-64 years                               | 3,563,911        | 35.2%               | 44,594,548        | 43.8%               |
| ≥ 65 years                                | 3,207,491        | 31.7%               | 20,107,838        | 19.8%               |
| Sex                                       |                  |                     |                   |                     |
| Female                                    | 3,213,646        | 39.4%               | 3,604,726         | 38.6%               |
| Male                                      | 4,948,210        | 60.6%               | 5,738,328         | 61.4%               |
| Race <sup>2</sup>                         |                  |                     |                   |                     |
| American Indian or Alaska Native          | 148,469          | 1.8%                | 177,881           | 1.9%                |
| Asian                                     | 104,916          | 1.3%                | 115,297           | 1.2%                |
| Black or African American                 | 1,054,333        | 12.9%               | 1,218,258         | 13.0%               |
| Multi-racial                              | 48,746           | 0.6%                | 54,809            | 0.6%                |
| Native Hawaiian or Other Pacific Islander | 17,234           | 0.2%                | 19,884            | 0.2%                |
| Unknown                                   | 2,213,801        | 27.1%               | 2,518,474         | 27.0%               |
| White                                     | 4,574,357        | 56.0%               | 5,238,451         | 56.1%               |
| Hispanic Origin <sup>2</sup>              |                  |                     |                   |                     |
| Yes                                       | 516,401          | 6.3%                | 588,507           | 6.3%                |
| No  | 5,651,193        | 69.2%               | 6,481,306         | 69.4%               |
| Unknown                                   | 1,994,262        | 24.4%               | 2,273,241         | 24.3%               |
| 'ear                                      |                  |                     |                   |                     |
| 2010                                      | 158,623          | 1.6%                | 864,111           | 0.8%                |
| 2011                                      | 399,590          | 3.9%                | 2,737,937         | 2.7%                |
| 2012                                      | 422,166          | 4.2%                | 2,984,929         | 2.9%                |
| 2013                                      | 441,151          | 4.4%                | 3,218,125         | 3.2%                |
| 2014                                      | 487,845          | 4.8%                | 3,576,978         | 3.5%                |
| 2015                                      | 622,731          | 6.1%                | 4,635,297         | 4.6%                |
| 2016                                      | 770,896          | 7.6%                | 6,821,894         | 6.7%                |
| 2017                                      | 1,001,129        | 9.9%                | 10,595,862        | 10.4%               |
| 2018                                      | 1,111,400        | 11.0%               | 12,478,370        | 12.3%               |
| 2019                                      | 1,120,825        | 11.1%               | 13,418,038        | 13.2%               |
| 2020                                      | 1,055,701        | 10.4%               | 13,847,409        | 13.6%               |
| 2021                                      | 1,228,915        | 12.1%               | 15,979,491        | 15.7%               |
| 2022                                      | 625,978          | 6.2%                | 5,219,621         | 5.1%                |
| 2023                                      | 686,673          | 6.8%                | 5,321,632         | 5.2%                |

<sup>&</sup>lt;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.

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<sup>&</sup>lt;sup>2</sup>Race and Hispanic status are typically populated using self-report data from source and are classified as "Unknown" if not reported or provided.



Table 1e. Aggregated Characteristics of Incident Drug Abuse or Dependence and Prevalent Drug Abuse or Dependence in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|   | Incident Drug Abu | use or Dependence  | Prevalent Drug Al | buse or Dependence |
|---|-------------------|--------------------|-------------------|--------------------|
| Patient Characteristics <sup>1</sup>      | Number            | Percent            | Number            | Percent            |
| Unique patients                           | 8,826,792         | 100.0%             | 9,721,582         | 100.0%             |
| Episodes                                  | 10,838,956        | 100.0%             | 66,477,840        | 100.0%             |
| Demographic Characteristics               | Mean              | Standard Deviation | Mean              | Standard Deviation |
| Age (years)                               | 47                | 15.2               | 43.1              | 14                 |
| Age                                       | Number            | Percent            | Number            | Percent            |
| 0-17 years                                | 596,075           | 5.5%               | 3,227,446         | 4.9%               |
| 18-43 years                               | 4,333,305         | 40.0%              | 33,376,839        | 50.2%              |
| 44-64 years                               | 3,711,280         | 34.2%              | 22,923,634        | 34.5%              |
| ≥ 65 years                                | 2,198,296         | 20.3%              | 6,949,921         | 10.5%              |
| Sex                                       |                   |                    |                   |                    |
| Female                                    | 4,393,678         | 49.8%              | 4,782,640         | 49.2%              |
| Male                                      | 4,433,114         | 50.2%              | 4,938,942         | 50.8%              |
| Race <sup>2</sup>                         |                   |                    |                   |                    |
| American Indian or Alaska Native          | 132,705           | 1.5%               | 146,359           | 1.5%               |
| Asian                                     | 89,749            | 1.0%               | 97,567            | 1.0%               |
| Black or African American                 | 1,423,919         | 16.1%              | 1,584,039         | 16.3%              |
| Multi-racial                              | 59,200            | 0.7%               | 64,964            | 0.7%               |
| Native Hawaiian or Other Pacific Islander | 23,444            | 0.3%               | 26,093            | 0.3%               |
| Unknown                                   | 2,100,174         | 23.8%              | 2,315,341         | 23.8%              |
| White                                     | 4,997,601         | 56.6%              | 5,487,219         | 56.4%              |
| Hispanic Origin <sup>2</sup>              |                   |                    |                   |                    |
| Yes                                       | 661,772           | 7.5%               | 725,681           | 7.5%               |
| No  | 6,492,433         | 73.6%              | 7,145,117         | 73.5%              |
| Unknown                                   | 1,672,587         | 18.9%              | 1,850,784         | 19.0%              |
| Year                                      |                   |                    |                   |                    |
| 2010                                      | 134,505           | 1.2%               | 494,754           | 0.7%               |
| 2011                                      | 397,191           | 3.7%               | 1,947,583         | 2.9%               |
| 2012                                      | 434,188           | 4.0%               | 2,234,753         | 3.4%               |
| 2013                                      | 461,485           | 4.3%               | 2,465,723         | 3.7%               |
| 2014                                      | 527,389           | 4.9%               | 2,713,121         | 4.1%               |
| 2015                                      | 688,081           | 6.3%               | 3,250,239         | 4.9%               |
| 2016                                      | 748,843           | 6.9%               | 4,190,510         | 6.3%               |
| 2017                                      | 1,118,012         | 10.3%              | 6,972,399         | 10.5%              |
| 2018                                      | 1,275,995         | 11.8%              | 8,534,824         | 12.8%              |
| 2019                                      | 1,295,293         | 12.0%              | 9,177,536         | 13.8%              |
|   |                   |                    |                   |                    |

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Table 1e. Aggregated Characteristics of Incident Drug Abuse or Dependence and Prevalent Drug Abuse or Dependence in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|      | Incident Drug Abu | Incident Drug Abuse or Dependence |            | Prevalent Drug Abuse or Dependence |  |
|------|-------------------|-----------------------------------|------------|------------------------------------|--|
|      | Number            | Percent                           | Number     | Percent                            |  |
| 2020 | 1,231,800         | 11.4%                             | 9,254,771  | 13.9%                              |  |
| 2021 | 1,444,633         | 13.3%                             | 10,174,771 | 15.3%                              |  |
| 2022 | 549,864           | 5.1%                              | 2,638,563  | 4.0%                               |  |
| 2023 | 531,677           | 4.9%                              | 2,428,293  | 3.7%                               |  |

<sup>&</sup>lt;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.

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<sup>&</sup>lt;sup>2</sup>Race and Hispanic status are typically populated using self-report data from source and are classified as "Unknown" if not reported or provided.



Table 1f. Aggregated Characteristics of Incident History of Coronary Artery Bypass Grafting (CABG) or Percutaneous Transluminal Coronary Angioplasty (PTCA) and Prevalent History of CABG or PTCA in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|   | Incident Histor | y of CABG or PTCA  | Prevalent Hist | ory of CABG or PTCA |
|---|-----------------|--------------------|----------------|---------------------|
| Patient Characteristics <sup>1</sup>      | Number          | Percent            | Number         | Percent             |
| Unique patients                           | 8,019,614       | 100.0%             | 9,095,604      | 100.0%              |
| Episodes                                  | 13,582,256      | 100.0%             | 103,308,717    | 100.0%              |
| Demographic Characteristics               | Mean            | Standard Deviation | Mean           | Standard Deviation  |
| Age (years)                               | 73.9            | 9.9                | 73.9           | 9.4                 |
| Age                                       | Number          | Percent            | Number         | Percent             |
| 0-17 years                                | 5,922           | 0.0%               | 9,534          | 0.0%                |
| 18-43 years                               | 133,329         | 1.0%               | 708,876        | 0.7%                |
| 44-64 years                               | 2,178,569       | 16.0%              | 14,533,445     | 14.1%               |
| ≥ 65 years                                | 11,264,436      | 82.9%              | 88,056,862     | 85.2%               |
| Sex                                       |                 |                    |                |                     |
| Female                                    | 2,964,404       | 37.0%              | 3,306,747      | 36.4%               |
| Male                                      | 5,055,210       | 63.0%              | 5,788,857      | 63.6%               |
| Race <sup>2</sup>                         |                 |                    |                |                     |
| American Indian or Alaska Native          | 37,786          | 0.5%               | 42,857         | 0.5%                |
| Asian                                     | 133,023         | 1.7%               | 153,130        | 1.7%                |
| Black or African American                 | 574,154         | 7.2%               | 666,426        | 7.3%                |
| Multi-racial                              | 15,297          | 0.2%               | 17,182         | 0.2%                |
| Native Hawaiian or Other Pacific Islander | 12,662          | 0.2%               | 14,990         | 0.2%                |
| Unknown                                   | 1,039,369       | 13.0%              | 1,207,286      | 13.3%               |
| White                                     | 6,207,323       | 77.4%              | 6,993,733      | 76.9%               |
| Hispanic Origin <sup>2</sup>              |                 |                    |                |                     |
| Yes                                       | 164,961         | 2.1%               | 190,008        | 2.1%                |
| No  | 6,678,299       | 83.3%              | 7,512,239      | 82.6%               |
| Unknown                                   | 1,176,354       | 14.7%              | 1,393,357      | 15.3%               |
| Year                                      |                 |                    |                |                     |
| 2010                                      | 173,107         | 1.3%               | 852,704        | 0.8%                |
| 2011                                      | 862,191         | 6.3%               | 4,814,941      | 4.7%                |
| 2012                                      | 844,875         | 6.2%               | 5,048,913      | 4.9%                |
| 2013                                      | 864,124         | 6.4%               | 5,268,210      | 5.1%                |
| 2014                                      | 971,133         | 7.2%               | 5,998,265      | 5.8%                |
| 2015                                      | 1,090,989       | 8.0%               | 6,756,392      | 6.5%                |
| 2016                                      | 1,170,750       | 8.6%               | 8,500,976      | 8.2%                |
| 2017                                      | 1,143,765       | 8.4%               | 9,241,868      | 8.9%                |
| 2018                                      | 1,153,638       | 8.5%               | 9,701,698      | 9.4%                |
| 2019                                      | 1,183,440       | 8.7%               | 10,421,410     | 10.1%               |

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Table 1f. Aggregated Characteristics of Incident History of Coronary Artery Bypass Grafting (CABG) or Percutaneous Transluminal Coronary Angioplasty (PTCA) and Prevalent History of CABG or PTCA in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|      | Incident History o | Incident History of CABG or PTCA |           | Prevalent History of CABG or PTCA |  |
|------|--------------------|----------------------------------|-----------|-----------------------------------|--|
|      | Number             | Percent                          | Number    | Percent                           |  |
| 2020 | 1,045,668          | 7.7%                             | 8,828,578 | 8.5%                              |  |
| 2021 | 1,122,484          | 8.3%                             | 9,542,580 | 9.2%                              |  |
| 2022 | 992,096            | 7.3%                             | 9,122,010 | 8.8%                              |  |
| 2023 | 963,996            | 7.1%                             | 9,210,172 | 8.9%                              |  |

<sup>&</sup>lt;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.

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<sup>&</sup>lt;sup>2</sup>Race and Hispanic status are typically populated using self-report data from source and are classified as "Unknown" if not reported or provided.



Table 1g. Aggregated Characteristics of Incident History of Sudden Cardiac Arrest and Prevalent History of Sudden Cardiac Arrest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

| in the Sentinei Distributed Database from 1 |           | f Sudden Cardiac Arrest   |           | ry of Sudden Cardiac<br>Arrest |
|---|-----------|---------------------------|-----------|--------------------------------|
| Patient Characteristics <sup>1</sup>        | Number    | Percent                   | Number    | Percent                        |
| Unique patients                             | 2,836,414 | 100.0%                    | 2,873,004 | 100.0%                         |
| Episodes                                    | 2,975,718 | 100.00%                   | 9,092,987 | 100.0%                         |
| Demographic Characteristics                 | Mean      | <b>Standard Deviation</b> | Mean      | Standard Deviation             |
| Age (years)                                 | 70.1      | 13.8                      | 67.7      | 14.2                           |
| Age   | Number    | Percent                   | Number    | Percent                        |
| 0-17 years                                  | 31,802    | 1.1%                      | 142,618   | 1.6%                           |
| 18-43 years                                 | 183,057   | 6.2%                      | 639,983   | 7.0%                           |
| 44-64 years                                 | 680,773   | 22.9%                     | 2,389,334 | 26.3%                          |
| ≥ 65 years                                  | 2,080,086 | 69.9%                     | 5,921,052 | 65.1%                          |
| Sex   |           |                           |           |                                |
| Female                                      | 1,315,605 | 46.4%                     | 1,330,415 | 46.3%                          |
| Male  | 1,520,809 | 53.6%                     | 1,542,589 | 53.7%                          |
| Race <sup>2</sup>                           |           |                           |           |                                |
| American Indian or Alaska Native            | 21,668    | 0.8%                      | 21,910    | 0.8%                           |
| Asian                                       | 57,590    | 2.0%                      | 58,438    | 2.0%                           |
| Black or African American                   | 476,961   | 16.8%                     | 483,958   | 16.8%                          |
| Multi-racial                                | 4,245     | 0.1%                      | 4,379     | 0.2%                           |
| Native Hawaiian or Other Pacific Islander   | 4,867     | 0.2%                      | 4,953     | 0.2%                           |
| Unknown                                     | 374,157   | 13.2%                     | 381,504   | 13.3%                          |
| White                                       | 1,896,926 | 66.9%                     | 1,917,862 | 66.8%                          |
| Hispanic Origin <sup>2</sup>                |           |                           |           |                                |
| Yes   | 100,177   | 3.5%                      | 101,837   | 3.5%                           |
| No  | 2,396,234 | 84.5%                     | 2,423,653 | 84.4%                          |
| Unknown                                     | 340,003   | 12.0%                     | 347,514   | 12.1%                          |
| Year  |           |                           |           |                                |
| 2010  | 26,012    | 0.9%                      | 39,457    | 0.4%                           |
| 2011  | 161,740   | 5.4%                      | 395,131   | 4.3%                           |
| 2012  | 169,380   | 5.7%                      | 426,275   | 4.7%                           |
| 2013  | 180,028   | 6.0%                      | 473,467   | 5.2%                           |
| 2014  | 199,482   | 6.7%                      | 540,770   | 5.9%                           |
| 2015  | 214,399   | 7.2%                      | 602,686   | 6.6%                           |
| 2016  | 228,234   | 7.7%                      | 674,781   | 7.4%                           |
| 2017  | 266,524   | 9.0%                      | 809,464   | 8.9%                           |
| 2018  | 262,614   | 8.8%                      | 851,881   | 9.4%                           |
| 2019  | 257,688   | 8.7%                      | 885,772   | 9.7%                           |

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Table 1g. Aggregated Characteristics of Incident History of Sudden Cardiac Arrest and Prevalent History of Sudden Cardiac Arrest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|      | Incident History of S | udden Cardiac Arrest | Prevalent History of Sudden Cardiac<br>Arrest |         |  |
|------|-----------------------|----------------------|---|---------|--|
|      | Number Percent        |                      | Number  | Percent |  |
| 2020 | 293,193               | 9.9%                 | 965,898                                       | 10.6%   |  |
| 2021 | 305,913               | 10.3%                | 1,025,612                                     | 11.3%   |  |
| 2022 | 215,511               | 7.2%                 | 727,955                                       | 8.0%    |  |
| 2023 | 195,000               | 6.6%                 | 673,838                                       | 7.4%    |  |

<sup>&</sup>lt;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.

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<sup>&</sup>lt;sup>2</sup>Race and Hispanic status are typically populated using self-report data from source and are classified as "Unknown" if not reported or provided.



Table 1h. Aggregated Characteristics of Has Non-Missing Value for Reported Race and Has Non-Missing Value for Imputed Race in the Sentinel Distributed Database from January 1, 2020 to December 31, 2021

|   | Has Non-Missin | g Value for Reported |                 |                                     |
|---|----------------|----------------------|-----------------|-------------------------------------|
|   |                | Race <sup>1</sup>    | Has Non-Missing | /alue for Imputed Race <sup>2</sup> |
| Patient Characteristics                   | Number         | Percent              | Number          | Percent                             |
| Unique patients <sup>3</sup>              | 118,798,367    | 100.0%               | 30,685,551      | 100.0%                              |
| Demographic Characteristics               | Mean           | Standard Deviation   | Mean            | Standard Deviation                  |
| Age (years) <sup>4</sup>                  | 38.5           | 17.8                 | 62              | 14.4                                |
| Age <sup>4</sup>                          | Number         | Percent              | Number          | Percent                             |
| 0-17 years                                | 37,530,597     | 31.6%                | 2,251,403       | 7.3%                                |
| 18-43 years                               | 31,393,312     | 26.4%                | 3,722,836       | 12.1%                               |
| 44-64 years                               | 22,585,658     | 19.0%                | 4,680,322       | 15.3%                               |
| ≥ 65 years                                | 27,288,800     | 23.0%                | 20,030,990      | 65.3%                               |
| Sex                                       |                |                      |                 |                                     |
| Female                                    | 64,796,598     | 54.5%                | 17,043,891      | 55.5%                               |
| Male                                      | 54,001,769     | 45.5%                | 13,641,660      | 44.5%                               |
| Race <sup>5,6</sup>                       |                |                      |                 |                                     |
| American Indian or Alaska Native          | 998,044        | 0.8%                 | 115,186         | 0.4%                                |
| Asian                                     | 4,083,528      | 3.4%                 | 837,513         | 2.7%                                |
| Black or African American                 | 15,410,885     | 13.0%                | 2,321,388       | 7.6%                                |
| Multi-racial                              | 1,105,565      | 0.9%                 | ****            | ****                                |
| Native Hawaiian or Other Pacific Islander | 391,741        | 0.3%                 | ****            | ****                                |
| Unknown                                   | 41,779,145     | 35.2%                | 4,728,224       | 15.4%                               |
| White                                     | 55,029,459     | 46.3%                | 22,683,051      | 73.9%                               |
| Hispanic Origin <sup>5</sup>              |                |                      |                 |                                     |
| Yes                                       | 15,720,063     | 13.2%                | 560,068         | 1.8%                                |
| No  | 72,214,508     | 60.8%                | 22,992,026      | 74.9%                               |
| Unknown                                   | 30,863,796     | 26.0%                | 7,133,457       | 23.2%                               |
| Year                                      |                |                      |                 |                                     |
| 2020                                      | 92,496,475     | 77.9%                | 26,837,219      | 87.5%                               |
| 2021                                      | 26,301,892     | 22.1%                | 3,848,332       | 12.5%                               |

<sup>&</sup>lt;sup>1</sup>If race is not reported, reported race is classified as "Unknown" which is a non-missing value in the Sentinel Database. The purpose of the "Has non-missing reported race" cohort was to describe all enrollees in the data with at least one encounter qualifying the inclusion criteria during 2020-2021.

<sup>2</sup>Only four DPs impute race; for all other DPs, imputed race data is unavailable. DPs have their own methods of imputing and race may not be imputed for all enrollees. DPs can impute the race of any enrollee, regardless of whether their reported race is "Unknown." As a result, even among DPs that perform imputation, enrollees with any value for reported race may receive any imputed race value, including "Unknown," or may have missing

imputed race.

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<sup>&</sup>lt;sup>3</sup>Because there is no timestamp for race documentation, the index date for the race cohorts was the date of the first encounter. Since the race value is same across all subsequent encounters, no episodes were created. The number of unique patients in each cohort served as the denominator for all proportions reported in this table.

<sup>&</sup>lt;sup>4</sup>Age was assessed on the index date, i.e., the first encounter.

<sup>&</sup>lt;sup>5</sup>Race and Hispanic status are typically populated using self-report data from source and are classified as "Unknown" if not reported or provided.

<sup>&</sup>lt;sup>6</sup>This variable reflects reported race for the "Non-missing value for reported race" cohort and imputed race for the "Non-missing value for imputed race

<sup>\*\*\*\*\*</sup>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 1i. Aggregated Characteristics of Has Diagnosis Code that Indicates a Range of Body Mass Index (BMI)<sup>1</sup> in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|   | Has Diagnosis Code that Indicates a Range of BMI |                    |  |  |
|---|--|--------------------|--|--|
| Patient Characteristics <sup>2</sup>      | Number   | Percent            |  |  |
| Unique patients                           | 64,912,835                                       | 100.0%             |  |  |
| Episodes                                  | 302,294,401                                      | 100.0%             |  |  |
| Demographic Characteristics               | Mean   | Standard Deviation |  |  |
| Age (years)                               | 58.6   | 15.8               |  |  |
| Age                                       | Number   | Percent            |  |  |
| 0-17 years                                | 31,737,297                                       | 10.5%              |  |  |
| 18-43 years                               | 38,134,447                                       | 12.6%              |  |  |
| 44-64 years                               | 70,068,902                                       | 23.2%              |  |  |
| ≥ 65 years                                | 162,353,755                                      | 53.7%              |  |  |
| Sex                                       |  |                    |  |  |
| Female                                    | 36,913,930                                       | 56.9%              |  |  |
| Male                                      | 27,998,905                                       | 43.1%              |  |  |
| Race <sup>3</sup>                         |  |                    |  |  |
| American Indian or Alaska Native          | 277,748  | 0.4%               |  |  |
| Asian                                     | 1,671,015  | 2.6%               |  |  |
| Black or African American                 | 7,338,340  | 11.3%              |  |  |
| Multi-racial                              | 521,428  | 0.8%               |  |  |
| Native Hawaiian or Other Pacific Islander | 170,104  | 0.3%               |  |  |
| Unknown                                   | 22,104,646                                       | 34.1%              |  |  |
| White                                     | 32,829,554                                       | 50.6%              |  |  |
| Hispanic Origin <sup>3</sup>              |  |                    |  |  |
| Yes                                       | 6,076,636  | 9.4%               |  |  |
| No  | 39,192,342                                       | 60.4%              |  |  |
| Unknown                                   | 19,643,857                                       | 30.3%              |  |  |
| Year                                      |  |                    |  |  |
| 2010                                      | 283,120  | 0.1%               |  |  |
| 2011                                      | 1,488,553  | 0.5%               |  |  |
| 2012                                      | 2,774,246  | 0.9%               |  |  |
| 2013                                      | 4,527,771  | 1.5%               |  |  |
| 2014                                      | 7,288,668  | 2.4%               |  |  |
| 2015                                      | 11,591,043                                       | 3.8%               |  |  |
| 2016                                      | 18,686,493                                       | 6.2%               |  |  |
| 2017                                      | 28,426,013                                       | 9.4%               |  |  |
| 2018                                      | 36,767,302                                       | 12.2%              |  |  |
| 2019                                      | 41,296,320                                       | 13.7%              |  |  |

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Table 1i. Aggregated Characteristics of Has Diagnosis Code that Indicates a Range of Body Mass Index (BMI)<sup>1</sup> in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|      | Has Diagnosis Code that Ir | Has Diagnosis Code that Indicates a Range of BMI |  |  |
|------|----------------------------|--|--|--|
|      | Number                     | Percent  |  |  |
| 2020 | 35,683,528                 | 11.8%  |  |  |
| 2021 | 42,133,681                 | 13.9%  |  |  |
| 2022 | 35,161,625                 | 11.6%  |  |  |
| 2023 | 36,186,038                 | 12.0%  |  |  |

 $<sup>^{1}</sup>$  All ICD-9 and ICD-10 codes for BMI ranges were assessed. Please refer to Appendix B for a list of codes used.

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<sup>&</sup>lt;sup>2</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>&</sup>lt;sup>3</sup>Race and Hispanic status are typically populated using self-report data from source and are classified as "Unknown" if not reported or provided.



Table 1j. Aggregated Characteristics of Has Diagnosis Code that Indicates a Range of Body Mass Index (BMI) that Classifies as Obesity in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

| Patient Characteristics¹         Number         Percent           Unique patients         32,550,071         100.0%           Episodes         158,501,892         100.0%           Demographic Characteristics         Mean         Standard Deviation           Age (years)         59.4         14.1           Age         Number         Percent           0-17 years         8,418,190         5.3%           18-43 years         22,886,969         14.4%           44-64 years         46,448,525         29.3%           ≥ 65 years         80,748,208         50.9%           Sex           Female         18,909,341         58.1%           Male         13,640,730         41.9%   |   | Has Diagnosis Code that Indicates a Range of BMI that Classifies as Ob |                    |  |  |
|--|---|--|--------------------|--|--|
| Episodes         158,501,892         100.0%           Demographic Characteristics         Mean         Standard Deviation           Age (years)         59.4         14.1           Age         Number         Percent           0-17 years         8,418,190         5.3%           18-43 years         22,886,969         14.4%           44-64 years         46,448,525         29.3%           ≥ 65 years         80,748,208         50.9%           Sex         Female         18,909,341         58.1%           Male         13,640,730         41.9%           Race²         4         46,448,525         0.5%           American Indian or Alaska Native         167,935         0.5%           Asian         403,283         1.2%           Black or African American         4,025,479         12.4%           Multi-racial         243,410         0.7%           Native Hawaiian or Other Pacific Islander         77,819         0.2%           Uhrknown         10,381,080         31.9%           White         17,251,065         53.0%           Hispanic Origin²         2         28,98           Yes         2,869,884         8.8%         0.0   | Patient Characteristics <sup>1</sup>      |  |                    |  |  |
| Demographic Characteristics         Mean         Standard Deviation           Age (years)         59.4         14.1           Age         Number         Percent           0-17 years         8,418,190         5.3%           18-43 years         22,886,969         14.4%           44-64 years         46,448,525         29.3%           65 years         80,748,208         50.9%           Sex         Female         18,909,341         58.1%           Male         13,640,730         41.9%           Race²         American Indian or Alaska Native         167,935         0.5%           Asian         403,283         1.2%           Multi-racial         403,283         1.2%           Native Hawaiian or Other Pacific Islander         77,819         0.2%           Unknown         10,381,080         31.9%           White         17,251,065         53.0%           Hispanic Origin²         2         2869,884         8.8%           No         20,271,426         62.3%           Unknown         9,408,761         28.9%           Year         2010         200,539         0.1%           2011         958,859         0.6%      <   | Unique patients                           | 32,550,071   | 100.0%             |  |  |
| Age (years)         59.4         14.1           Age         Number         Percent           0-17 years         8,418,190         5.3%           18-43 years         46,448,525         29.3%           4-64 years         46,448,525         29.3%           ≤ 65 years         80,748,208         50.9%           Sex         Female         18,909,341         58.1%           Male         18,909,341         58.1%           Asian         403,233         1.2%           Asian         403,283         1.2%           Black or African American         4,025,479         12.4%           Multi-racial         243,410         0.7%           Notation Hawaiian or Other Pacific Islander         77,819         0.2%  | Episodes                                  | 158,501,892  | 100.0%             |  |  |
| Age         Number         Percent           0-17 years         8,418,190         5.3%           18-43 years         22,886,969         14.4%           44-64 years         46,448,525         29.3%           2 65 years         80,748,208         50.9%           Sex         Female         18,909,341         58.1%           Male         13,640,730         41.9%           Race²   | Demographic Characteristics               | Mean   | Standard Deviation |  |  |
| 8,418,190 5.3% 18-43 years 22,886,969 14.4% 44-64 years 46,448,525 29.3% 265 years 80,748,208 50.9%  Sex  Female 18,909,341 58.1% Male 13,640,730 41.9% Race²  American Indian or Alaska Native 167,935 0.5% Asian 403,283 1.2% Black or African American 4,025,479 12.4% Multi-racial 243,410 0.7% Native Hawaiian or Other Pacific Islander 77,819 0.2% Unknown 10,381,080 31.9% White 17,251,065 53.0%  Hispanic Origin²  Yes 2,869,884 8.8% No 20,271,426 62.3% Unknown 9,408,761 28.9%  Year  2010 20,539 0.1% 2011 958,859 0.6% 2012 1,608,132 1.0% 2013 2,481,448 1.6% 2014 3,898,686 2.5% 2015 6,067,782 3.8% 2016 9,858,346 6.2% 2017 14,640,492 9.2% 2017 14,640,492 9.2% 2017 14,640,492 9.2% 2017 14,640,492 9.2% 2017 14,640,492 9.2%   | Age (years)                               | 59.4   | 14.1               |  |  |
| 18-43 years  | Age                                       | Number   | Percent            |  |  |
| 44-64 years 46,448,525 29.3% 50.9% | 0-17 years                                | 8,418,190  | 5.3%               |  |  |
| 2 65 years       80,748,208       50.9%         Sex       18,909,341       58.1%         Male       13,640,730       41.9%         Race <sup>2</sup> ************************************  | 18-43 years                               | 22,886,969   | 14.4%              |  |  |
| Sex           Female         18,909,341         58.1%           Male         13,640,730         41.9%           Racc²  | 44-64 years                               | 46,448,525   | 29.3%              |  |  |
| Female       18,909,341       58.1%         Male       13,640,730       41.9%         Race²       Tall (19,35)       0.5%         Asian       403,283       1.2%         Black or African American       4,025,479       12.4%         Multi-racial       243,410       0.7%         Native Hawaiian or Other Pacific Islander       77,819       0.2%         Unknown       10,381,080       31.9%         White       17,251,065       53.0%         Hispanic Origin²       Ver       2,869,884       8.8%         No       20,271,426       62.3%         Unknown       9,408,761       28.9%         Year       2010       200,539       0.1%         2011       958,859       0.6%         2012       1,608,132       1.0%         2013       2,481,448       1.6%         2014       3,898,686       2.5%         2015       6,067,782       3.8%         2016       9,858,346       6.2%         2017       14,640,492       9.2%         2018       18,717,095       11.8%   | ≥ 65 years                                | 80,748,208   | 50.9%              |  |  |
| Male       13,640,730       41.9%         Race²       40.5%       40.5%         Asian       403,283       1.2%         Black or African American       4,025,479       12.4%         Multi-racial       243,410       0.7%         Native Hawaiian or Other Pacific Islander       77,819       0.2%         Unknown       10,381,080       31.9%         White       17,251,065       53.0%         Hispanic Origin²       2,869,884       8.8%         No       20,271,426       62.3%         Unknown       9,408,761       28.9%         Year       2010       200,539       0.1%         2011       958,859       0.6%         2012       1,608,132       1.0%         2013       2,481,448       1.6%         2014       3,898,686       2.5%         2015       6,067,782       3.8%         2016       9,858,346       6.2%         2017       14,640,492       9.2%         2018       18,717,095       11.8%   | Sex                                       |  |                    |  |  |
| Race²         American Indian or Alaska Native       167,935       0.5%         Asian       403,283       1.2%         Black or African American       4,025,479       12.4%         Multi-racial       243,410       0.7%         Native Hawaiian or Other Pacific Islander       77,819       0.2%         Unknown       10,381,080       31.9%         White       17,251,065       53.0%         Hispanic Origin²       2       2,869,884       8.8%         No       20,271,426       62.3%         Unknown       9,408,761       28.9%         Year       2010       200,539       0.1%         2011       958,859       0.6%         2012       1,608,132       1.0%         2013       2,481,448       1.6%         2014       3,898,686       2.5%         2015       6,067,782       3.8%         2016       9,858,346       6.2%         2017       14,640,492       9.2%         2018       18,717,095       11.8%   | Female                                    | 18,909,341   | 58.1%              |  |  |
| American Indian or Alaska Native       167,935       0.5%         Asian       403,283       1.2%         Black or African American       4,025,479       12.4%         Multi-racial       243,410       0.7%         Native Hawaiian or Other Pacific Islander       77,819       0.2%         Unknown       10,381,080       31.9%         White       17,251,065       53.0%         Hispanic Origin²       2       2,869,884       8.8%         No       20,271,426       62.3%         Unknown       9,408,761       28.9%         Year       200,539       0.1%         2011       958,859       0.6%         2012       1,608,132       1.0%         2013       2,481,448       1.6%         2014       3,898,686       2.5%         2015       6,067,782       3.8%         2016       9,858,346       6.2%         2017       14,640,492       9.2%         2018       18,717,095       11.8%  | Male                                      | 13,640,730   | 41.9%              |  |  |
| Asian       403,283       1.2%         Black or African American       4,025,479       12.4%         Multi-racial       243,410       0.7%         Native Hawaiian or Other Pacific Islander       77,819       0.2%         Unknown       10,381,080       31.9%         White       17,251,065       53.0%         Hispanic Origin²       2,869,884       8.8%         No       20,271,426       62.3%         Unknown       9,408,761       28.9%         Year       2010       200,539       0.1%         2011       958,859       0.6%         2012       1,608,132       1.0%         2013       2,481,448       1.6%         2014       3,898,686       2.5%         2015       6,067,782       3.8%         2016       9,858,346       6.2%         2017       14,640,492       9.2%         2018       18,717,095       11.8%   | Race <sup>2</sup>                         |  |                    |  |  |
| Black or African American       4,025,479       12.4%         Multi-racial       243,410       0.7%         Native Hawaiian or Other Pacific Islander       77,819       0.2%         Unknown       10,381,080       31.9%         White       17,251,065       53.0%         Hispanic Origin²       2       2,869,884       8.8%         No       20,271,426       62.3%         Unknown       9,408,761       28.9%         Year       2010       200,539       0.1%         2011       958,859       0.6%         2012       1,608,132       1.0%         2013       2,481,448       1.6%         2014       3,898,686       2.5%         2015       6,067,782       3.8%         2016       9,858,346       6.2%         2017       14,640,492       9.2%         2018       18,717,095       11.8%  | American Indian or Alaska Native          | 167,935  | 0.5%               |  |  |
| Multi-racial       243,410       0.7%         Native Hawaiian or Other Pacific Islander       77,819       0.2%         Unknown       10,381,080       31.9%         White       17,251,065       53.0%         Hispanic Origin²       8.8%       8.8%         No       20,271,426       62.3%         Unknown       9,408,761       28.9%         Year       2010       200,539       0.1%         2011       958,859       0.6%         2012       1,608,132       1.0%         2013       2,481,448       1.6%         2014       3,898,686       2.5%         2015       6,067,782       3.8%         2016       9,858,346       6.2%         2017       14,640,492       9.2%         2018       18,717,095       11.8%   | Asian                                     | 403,283  | 1.2%               |  |  |
| Native Hawaiian or Other Pacific Islander       77,819       0.2%         Unknown       10,381,080       31.9%         White       17,251,065       53.0%         Hispanic Origin²       8.8%         Yes       2,869,884       8.8%         No       20,271,426       62.3%         Unknown       9,408,761       28.9%         Year       2010       200,539       0.1%         2011       958,859       0.6%         2012       1,608,132       1.0%         2013       2,481,448       1.6%         2014       3,898,686       2.5%         2015       6,067,782       3.8%         2016       9,858,346       6.2%         2017       14,640,492       9.2%         2018       18,717,095       11.8%   | Black or African American                 | 4,025,479  | 12.4%              |  |  |
| Unknown       10,381,080       31.9%         White       17,251,065       53.0%         Hispanic Origin²       ****       *****         Yes       2,869,884       8.8%         No       20,271,426       62.3%         Unknown       9,408,761       28.9%         Year       *****       *****         2010       200,539       0.1%         2011       958,859       0.6%         2012       1,608,132       1.0%         2013       2,481,448       1.6%         2014       3,898,686       2.5%         2015       6,067,782       3.8%         2016       9,858,346       6.2%         2017       14,640,492       9.2%         2018       18,717,095       11.8%   | Multi-racial                              | 243,410  | 0.7%               |  |  |
| White       17,251,065       53.0%         Hispanic Origin²       2,869,884       8.8%         No       20,271,426       62.3%         Unknown       9,408,761       28.9%         Year       2010       200,539       0.1%         2011       958,859       0.6%         2012       1,608,132       1.0%         2013       2,481,448       1.6%         2014       3,898,686       2.5%         2015       6,067,782       3.8%         2016       9,858,346       6.2%         2017       14,640,492       9.2%         2018       18,717,095       11.8%   | Native Hawaiian or Other Pacific Islander | 77,819   | 0.2%               |  |  |
| Hispanic Origin²         Yes       2,869,884       8.8%         No       20,271,426       62.3%         Unknown       9,408,761       28.9%         Year       2010       200,539       0.1%         2011       958,859       0.6%         2012       1,608,132       1.0%         2013       2,481,448       1.6%         2014       3,898,686       2.5%         2015       6,067,782       3.8%         2016       9,858,346       6.2%         2017       14,640,492       9.2%         2018       18,717,095       11.8%  | Unknown                                   | 10,381,080   | 31.9%              |  |  |
| Yes       2,869,884       8.8%         No       20,271,426       62.3%         Unknown       9,408,761       28.9%         Year       2010       200,539       0.1%         2011       958,859       0.6%         2012       1,608,132       1.0%         2013       2,481,448       1.6%         2014       3,898,686       2.5%         2015       6,067,782       3.8%         2016       9,858,346       6.2%         2017       14,640,492       9.2%         2018       18,717,095       11.8%   | White                                     | 17,251,065   | 53.0%              |  |  |
| No       20,271,426       62.3%         Unknown       9,408,761       28.9%         Year       7       2010       200,539       0.1%         2011       958,859       0.6%         2012       1,608,132       1.0%         2013       2,481,448       1.6%         2014       3,898,686       2.5%         2015       6,067,782       3.8%         2016       9,858,346       6.2%         2017       14,640,492       9.2%         2018       18,717,095       11.8%  | Hispanic Origin <sup>2</sup>              |  |                    |  |  |
| Unknown       9,408,761       28.9%         Year       2010       200,539       0.1%         2011       958,859       0.6%         2012       1,608,132       1.0%         2013       2,481,448       1.6%         2014       3,898,686       2.5%         2015       6,067,782       3.8%         2016       9,858,346       6.2%         2017       14,640,492       9.2%         2018       18,717,095       11.8%  | Yes                                       | 2,869,884  | 8.8%               |  |  |
| Year  2010 200,539 0.1% 2011 958,859 0.6% 2012 1,608,132 1.0% 2013 2,481,448 1.6% 2014 3,898,686 2.5% 2015 6,067,782 3.8% 2016 9,858,346 6.2% 2017 14,640,492 9.2% 2018  | No  | 20,271,426   | 62.3%              |  |  |
| 2010200,5390.1%2011958,8590.6%20121,608,1321.0%20132,481,4481.6%20143,898,6862.5%20156,067,7823.8%20169,858,3466.2%201714,640,4929.2%201818,717,09511.8%   | Unknown                                   | 9,408,761  | 28.9%              |  |  |
| 2011958,8590.6%20121,608,1321.0%20132,481,4481.6%20143,898,6862.5%20156,067,7823.8%20169,858,3466.2%201714,640,4929.2%201818,717,09511.8%  | Year                                      |  |                    |  |  |
| 20121,608,1321.0%20132,481,4481.6%20143,898,6862.5%20156,067,7823.8%20169,858,3466.2%201714,640,4929.2%201818,717,09511.8%   | 2010                                      | 200,539  | 0.1%               |  |  |
| 20132,481,4481.6%20143,898,6862.5%20156,067,7823.8%20169,858,3466.2%201714,640,4929.2%201818,717,09511.8%  | 2011                                      | 958,859  | 0.6%               |  |  |
| 20143,898,6862.5%20156,067,7823.8%20169,858,3466.2%201714,640,4929.2%201818,717,09511.8%   | 2012                                      | 1,608,132  | 1.0%               |  |  |
| 20156,067,7823.8%20169,858,3466.2%201714,640,4929.2%201818,717,09511.8%  | 2013                                      | 2,481,448  | 1.6%               |  |  |
| 20169,858,3466.2%201714,640,4929.2%201818,717,09511.8%   | 2014                                      | 3,898,686  | 2.5%               |  |  |
| 201714,640,4929.2%201818,717,09511.8%  | 2015                                      | 6,067,782  | 3.8%               |  |  |
| 201714,640,4929.2%201818,717,09511.8%  | 2016                                      |  | 6.2%               |  |  |
| 2018 18,717,095 11.8%  |   |  | 9.2%               |  |  |
|  | 2018                                      |  | 11.8%              |  |  |
|  |   |  |                    |  |  |

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Table 1j. Aggregated Characteristics of Has Diagnosis Code that Indicates a Range of Body Mass Index (BMI) that Classifies as Obesity in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|      | Has Diagnosis Code that Indicates a R | Has Diagnosis Code that Indicates a Range of BMI that Classifies as Obesit |  |  |  |  |
|------|---------------------------------------|--|--|--|--|--|
|      | Number                                | Percent  |  |  |  |  |
| 2020 | 18,431,580                            | 11.6%  |  |  |  |  |
| 2021 | 22,089,891                            | 13.9%  |  |  |  |  |
| 2022 | 18,978,285                            | 12.0%  |  |  |  |  |
| 2023 | 19,661,700                            | 12.4%  |  |  |  |  |

<sup>&</sup>lt;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.

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<sup>&</sup>lt;sup>2</sup>Race and Hispanic status are typically populated using self-report data from source and are classified as "Unknown" if not reported or provided.



Table 1k. Aggregated Characteristics of Has Diagnosis Code that Indicates a Range of Body Mass Index (BMI) that Classifies as Overweight in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

| Unique patients         20,273,743         100.0%           Episodes         72,367,526         100.0%           Demographic Characteristics         Mean         Standard Deviation           Age (years)         63.3         14.4           Age         Number         Percent           0-17 years         4,656,718         6.4%           18-43 years         7,570,528         10.5%           44-64 years         14,452,110         20.0%           2-65 years         45,688,170         63.1%           Sex         Female         10,911,454         53.8%           Male         9,362,289         46.2%           Race²         American Indian or Alaska Native         64,530         0.3%           Asian         546,188         2.7%           Black or African American         1,952,204         9.6%           Multi-racial         137,634         0.7%           Native Hawaiian or Other Pacific Islander         53,139         0.3%           Unknown         6,259,446         30.9%           White         11,260,602         55.5%           Hispanic Origin²         Yes         1,638,613         8.1%           No         12,823,660         63.3%  |   | Has Diagnosis Code that Indicates a Range of BMI that Classifies as Overweight |                    |  |  |  |
|--|---|--|--------------------|--|--|--|
| Episodes         72,367,526         100.0%           Demographic Characteristics         Mean         Standard Deviation           Age (years)         63.3         14.4           Age         Number         Percent           0-17 years         4,656,718         6.4%           18-43 years         7,570,528         10.5%           44-64 years         14,452,110         20.0%           ≥ 65 years         85,201         63.1%           Sex         Female         10,911,454         53.8%           Male         9,362,289         46.2%           Race²         American Indian or Alaska Native         64,530         0.3%           Asian         546,188         2.7%           Black or African American         1,952,204         9.6%           Multi-racial         137,634         0.7%           Native Hawaiian or Other Pacific Islander         53,139         0.3%           Uhrknown         6,259,446         30.9%           White         11,260,602         55.5%           Hispanic Origin²         \$1         3.1,470         28.7%           Year         2010         30.822         0.0%           2011         207,180         0.3% </th <th>Patient Characteristics<sup>1</sup></th> <th>Number</th> <th>Percent</th> | Patient Characteristics <sup>1</sup>      | Number   | Percent            |  |  |  |
| Demographic Characteristics         Mean         Standard Deviation           Age (years)         63.3         14.4           Age         Number         Percent           0-17 years         4,656,718         6.4%           18-43 years         7,570,528         10.5%           44-64 years         14,452,110         20.0%           2 65 years         45,688,170         63.1%           5ex         Female         10,911,454         53.8%           Male         9,362,289         46.2%           Race²         American Indian or Alaska Native         64,530         0.3%           Asian         546,188         2.7%           Black or African American         1,952,204         9.6%           Multi-racial         137,634         0.7%           Native Hawaiian or Other Pacific Islander         53,139         0.3%           Unknown         6,259,446         30.9%           White         11,260,602         55.5%           Hilspanic Origin²         Yes         1,638,613         8.1%           No         12,823,660         63.3%           Unknown         5,811,470         28.7%           2010         30,822         0.0%   | Unique patients                           | 20,273,743   | 100.0%             |  |  |  |
| Age (years)         63.3         14.4           Age         Number         Percent           0-17 years         4,656,718         6.4%           18-43 years         7,570,528         10.5%           44-64 years         14,452,110         20.0%           ≥ 65 years         45,688,170         63.1%           Sex         Female         10,911,454         53.8%           Male         9,362,289         46.2%           Race²         American Indian or Alaska Native         64,530         0.3%           Asian         546,188         2.7%           Black or African American         1,952,204         9.6%           Multi-racial         137,634         0.7%           Native Hawaiian or Other Pacific Islander         53,139         0.3%           Unknown         6,259,446         30.9%           Hilspanic Origin²         Yes         1,638,613         8.1%           No         12,823,660         63.3%           Unknown         5,811,470         28.7%           Year         2010         30,822         0.0%           2011         207,180         0.3%           2012         551,692         0.8% <td< td=""><td>Episodes</td><td>72,367,526</td><td>100.0%</td></td<>  | Episodes                                  | 72,367,526   | 100.0%             |  |  |  |
| Age         Number         Percent           0-17 years         4,656,718         6.4%           18-43 years         7,570,528         10.5%           44-64 years         14,452,110         20.0%           2 65 years         45,688,170         63.1%           5ex         Female         10,911,454         53.8%           Male         9,362,289         46.2%           Race²         American Indian or Alaska Native         64,530         0.3%           Asian         546,188         2.7%           Black or African American         1,952,204         9.6%           Multi-racial         137,634         0.7%           Native Hawaiian or Other Pacific Islander         53,139         0.3%           Unknown         6,259,446         30.9%           White         11,260,602         55.5%           Hispanic Origin²         Yes         1,638,613         8.1%           No         12,823,660         63.3%           Unknown         5,811,470         28.7%           Year         2010         30,822         0.0%           2011         207,180         0.3%           2012         551,692         0.8%   | Demographic Characteristics               | Mean   | Standard Deviation |  |  |  |
| 0-17 years 4,656,718 6.4%  18-43 years 7,570,528 10.5%  44-64 years 14,452,110 20.0% ≥ 65 years 45,688,170 63.1%  Sex  Female 10,911,454 53.8%  Male 9,362,289 46.2%  Race²  American Indian or Alaska Native 64,530 0.3%  Asian 546,188 2.7%  Black or African American 1,952,204 9.6%  Multi-racial 137,634 0.7%  Native Hawaiian or Other Pacific Islander 13,139 0.3%  White 11,260,602 55.5%  Hispanic Origin²  Yes 1,638,613 8.1%  No 12,823,660 63.3%  Unknown 5,811,470 8.87%  Year  2010 30,822 0.0%  2011 207,180 0.3%  2012 551,692 0.8%  2013 1,024,013 1.4%  2014 1,741,188 2.4%  2015 2,779,910 3.8%  2017 7,020,078 9.7%  2017 7,020,078 9.7%  2017 7,020,078 9.7%  2017 7,020,078 9.7%  2018   | Age (years)                               | 63.3   | 14.4               |  |  |  |
| 18-43 years 7,570,528 10.5% 44-64 years 14,452,110 20.0% ≥ 65 years 45,688,170 63.1%  Sex  Female 10,911,454 53.8% Male 9,362,289 46.2% Race²  American Indian or Alaska Native 64,530 0.3% Asian 546,188 2.7% Black or African American 1,952,204 9.6% Multi-racial 137,634 0.7% Multi-racial 137,634 0.7% Multi-racial 137,634 0.3% White 11,260,602 55.5% Hispanic Origin²  Yes 1,638,613 8.1% No 12,823,660 63.3% Unknown 5,811,470 28.7% Year  2010 30,822 0.0% 2011 207,180 0.3% 2012 551,692 0.8% 2013 1,024,013 1.4% 2014 1,741,188 2.4% 2015 2,779,910 3.8% 2016 4,541,753 6.3% 2017 7,020,078 9,7% 2018 9,056,573 12.5%  | Age                                       | Number   | Percent            |  |  |  |
| 44-64 years 14,452,110 20.0% ≥ 65 years 45,688,170 63.1% Sex  Female 10,911,454 53.8% Male 9,362,289 46.2% Race²  American Indian or Alaska Native 64,530 0.3% Asian 546,188 2.7% Black or African American 1 1,952,204 9.6% Multi-racial 137,634 0.7% Native Hawaiian or Other Pacific Islander 53,139 0.3% Uhknown 6,259,446 30.9% White 11,260,602 55.5% Hispanic Origin²  Yes 1,638,613 8.1% No 12,823,660 63.3% Unknown 5,811,470 28.7% Year  2010 30,822 0.0% 2011 207,180 0.3% 2012 551,692 0.8% 2013 1,024,013 1.4% 2014 2071,818 2.4% 2015 2.779,910 3.8% 2016 4,541,753 6.3% 2017 7,020,078 9.7% 2018 2016 59,56573 12.5%  | 0-17 years                                | 4,656,718  | 6.4%               |  |  |  |
| \$\begin{array}{cccccccccccccccccccccccccccccccccccc   | 18-43 years                               | 7,570,528  | 10.5%              |  |  |  |
| Sex         Female         10,911,454         53.8%           Male         9,362,289         46.2%           Race²         ***********************************   | 44-64 years                               | 14,452,110   | 20.0%              |  |  |  |
| Female       10,911,454       53.8%         Male       9,362,289       46.2%         Race²       46.2%         American Indian or Alaska Native       64,530       0.3%         Asian       546,188       2.7%         Black or African American       1,952,204       9.6%         Multi-racial       137,634       0.7%         Native Hawaiian or Other Pacific Islander       53,139       0.3%         Unknown       6,259,446       30.9%         White       11,260,602       55.5%         Hispanic Origin²       Yes       1,638,613       8.1%         No       12,823,660       63.3%         Unknown       5,811,470       28.7%         Year       2010       30,822       0.0%         2011       207,180       0.3%         2012       55,692       0.8%         2013       1,024,013       1,4%         2014       1,741,188       2,4%         2015       2,779,910       3.8%         2016       4,541,753       6.3%         2017       7,020,078       9,7%         2018       9,056,573       12.5%   | ≥ 65 years                                | 45,688,170   | 63.1%              |  |  |  |
| Male       9,362,289       46.2%         Race²       46.250       0.3%         Asian       546,188       2.7%         Black or African American       1,952,204       9.6%         Multi-racial       137,634       0.7%         Native Hawaiian or Other Pacific Islander       53,139       0.3%         Unknown       6,259,446       30.9%         White       11,260,602       55.5%         Hispanic Origin²       ***       ***         Yes       1,638,613       8.1%         No       12,823,660       63.3%         Unknown       5,811,470       28.7%         Year       2010       30,822       0.0%         2011       207,180       0.3%         2012       551,692       0.8%         2013       1,024,013       1.4%         2014       1,741,188       2.4%         2015       2,779,910       3.8%         2016       4,541,753       6.3%         2017       7,020,078       9.7%         2018       9,056,573       12.5%   | Sex                                       |  |                    |  |  |  |
| Race²       American Indian or Alaska Native       64,530       0.3%         Asian       546,188       2.7%         Black or African American       1,952,204       9.6%         Multi-racial       137,634       0.7%         Native Hawaiian or Other Pacific Islander       53,139       0.3%         Unknown       6,259,446       30.9%         White       11,260,602       55.5%         Hispanic Origin²       ***  Yes       1,638,613       8.1%         No       12,823,660       63.3%         Unknown       5,811,470       28.7%         Year       2010       30,822       0.0%         2011       207,180       0.3%         2012       551,692       0.8%         2013       1,024,013       1.4%         2014       1,741,188       2.4%         2015       2,779,910       3.8%         2016       4,541,753       6.3%         2017       7,020,078       9.7%         2018       9,056,573       12.5%  | Female                                    | 10,911,454   | 53.8%              |  |  |  |
| American Indian or Alaska Native       64,530       0.3%         Asian       546,188       2.7%         Black or African American       1,952,204       9.6%         Multi-racial       137,634       0.7%         Native Hawaiian or Other Pacific Islander       53,139       0.3%         Unknown       6,259,446       30.9%         White       11,260,602       55.5%         Hispanic Origin²       Yes       1,638,613       8.1%         No       12,823,660       63.3%         Unknown       5,811,470       28.7%         Year       30,822       0.0%         2010       30,822       0.0%         2011       207,180       0.3%         2012       551,692       0.8%         2013       1,024,013       1.4%         2014       1,741,188       2.4%         2015       2,779,910       3.8%         2016       4,541,753       6.3%         2017       7,020,078       9.7%         2018       9,056,573       12.5%   | Male                                      | 9,362,289  | 46.2%              |  |  |  |
| Asian       546,188       2.7%         Black or African American       1,952,204       9.6%         Multi-racial       137,634       0.7%         Native Hawaiian or Other Pacific Islander       53,139       0.3%         Unknown       6,259,446       30.9%         White       11,260,602       55.5%         Hispanic Origin²       ***       ***         Yes       1,638,613       8.1%         No       12,823,660       63.3%         Unknown       5,811,470       28.7%         Year       ****       ****         2010       30,822       0.0%         2011       207,180       0.3%         2012       551,692       0.8%         2013       1,024,013       1.4%         2014       1,741,188       2.4%         2015       2,779,910       3.8%         2016       4,541,753       6.3%         2017       7,020,078       9.7%         2018       9,056,573       12.5%  | Race <sup>2</sup>                         |  |                    |  |  |  |
| Black or African American       1,952,204       9.6%         Multi-racial       137,634       0.7%         Native Hawaiian or Other Pacific Islander       53,139       0.3%         Unknown       6,259,446       30.9%         White       11,260,602       55.5%         Hispanic Origin²       ***         Yes       1,638,613       8.1%         No       12,823,660       63.3%         Unknown       5,811,470       28.7%         Year       ****       2010       30,822       0.0%         2011       207,180       0.3%         2012       551,692       0.8%         2013       1,024,013       1.4%         2014       1,741,188       2.4%         2015       2,779,910       3.8%         2016       4,541,753       6.3%         2017       7,020,078       9.7%         2018       9,056,573       12.5%  | American Indian or Alaska Native          | 64,530   | 0.3%               |  |  |  |
| Multi-racial       137,634       0.7%         Native Hawaiian or Other Pacific Islander       53,139       0.3%         Unknown       6,259,446       30.9%         White       11,260,602       55.5%         Hispanic Origin²       Ves       1,638,613       8.1%         No       12,823,660       63.3%       10,00       63.3%       63.3%         Unknown       5,811,470       28.7%       7%         Year       2010       30,822       0.0%       0.3%         2011       207,180       0.3%       0.3%         2012       551,692       0.8%       0.3%         2013       1,024,013       1.4%         2014       1,741,188       2.4%         2015       2,779,910       3.8%         2016       4,541,753       6.3%         2017       7,020,078       9,7%         2018       9,056,573       12.5%  | Asian                                     | 546,188  | 2.7%               |  |  |  |
| Native Hawaiian or Other Pacific Islander       53,139       0.3%         Unknown       6,259,446       30.9%         White       11,260,602       55.5%         Hispanic Origin²       Tes       1,638,613       8.1%         No       12,823,660       63.3%       1,638,613       8.1%         Year       2010       30,822       0.0%       2011       207,180       0.3%       2012       551,692       0.8%       2013       1,024,013       1,4%       2014       2014,013       1,4%       2014       2015       2,779,910       3.8%       2016       4,541,753       6.3%       2017       7,020,078       9.7%       2018       2018       9,056,573       12.5%  | Black or African American                 | 1,952,204  | 9.6%               |  |  |  |
| Unknown       6,259,446       30.9%         White       11,260,602       55.5%         Hispanic Origin²       7       1,638,613       8.1%         No       12,823,660       63.3%         Unknown       5,811,470       28.7%         Year       2010       30,822       0.0%         2011       207,180       0.3%         2012       551,692       0.8%         2013       1,024,013       1.4%         2014       1,741,188       2.4%         2015       2,779,910       3.8%         2016       4,541,753       6.3%         2017       7,020,078       9.7%         2018       9,056,573       12.5%  | Multi-racial                              | 137,634  | 0.7%               |  |  |  |
| White       11,260,602       55.5%         Hispanic Origin²       1,638,613       8.1%         No       12,823,660       63.3%         Unknown       5,811,470       28.7%         Year       700       30,822       0.0%         2011       207,180       0.3%         2012       551,692       0.8%         2013       1,024,013       1.4%         2014       1,741,188       2.4%         2015       2,779,910       3.8%         2016       4,541,753       6.3%         2017       7,020,078       9.7%         2018       9,056,573       12.5%   | Native Hawaiian or Other Pacific Islander | 53,139   | 0.3%               |  |  |  |
| Hispanic Origin <sup>2</sup> Yes       1,638,613       8.1%         No       12,823,660       63.3%         Unknown       5,811,470       28.7%         Year       2010       30,822       0.0%         2011       207,180       0.3%         2012       551,692       0.8%         2013       1,024,013       1.4%         2014       1,741,188       2.4%         2015       2,779,910       3.8%         2016       4,541,753       6.3%         2017       7,020,078       9.7%         2018       9,056,573       12.5%   | Unknown                                   | 6,259,446  | 30.9%              |  |  |  |
| Yes       1,638,613       8.1%         No       12,823,660       63.3%         Unknown       5,811,470       28.7%         Year       2010       30,822       0.0%         2011       207,180       0.3%         2012       551,692       0.8%         2013       1,024,013       1.4%         2014       1,741,188       2.4%         2015       2,779,910       3.8%         2016       4,541,753       6.3%         2017       7,020,078       9.7%         2018       9,056,573       12.5%  | White                                     | 11,260,602   | 55.5%              |  |  |  |
| No       12,823,660       63.3%         Unknown       5,811,470       28.7%         Year       700       30,822       0.0%         2011       207,180       0.3%         2012       551,692       0.8%         2013       1,024,013       1.4%         2014       1,741,188       2.4%         2015       2,779,910       3.8%         2016       4,541,753       6.3%         2017       7,020,078       9.7%         2018       9,056,573       12.5%  | Hispanic Origin <sup>2</sup>              |  |                    |  |  |  |
| Unknown     5,811,470     28.7%       Year     30,822     0.0%       2011     207,180     0.3%       2012     551,692     0.8%       2013     1,024,013     1.4%       2014     1,741,188     2.4%       2015     2,779,910     3.8%       2016     4,541,753     6.3%       2017     7,020,078     9.7%       2018     9,056,573     12.5%  | Yes                                       | 1,638,613  | 8.1%               |  |  |  |
| Year  2010 30,822 0.0% 2011 207,180 0.3% 2012 551,692 0.8% 2013 1,024,013 1.4% 2014 1,741,188 2.4% 2015 2,779,910 3.8% 2016 4,541,753 6.3% 2017 7,020,078 9,7% 2018  | No  | 12,823,660   | 63.3%              |  |  |  |
| 201030,8220.0%2011207,1800.3%2012551,6920.8%20131,024,0131.4%20141,741,1882.4%20152,779,9103.8%20164,541,7536.3%20177,020,0789.7%20189,056,57312.5%  | Unknown                                   | 5,811,470  | 28.7%              |  |  |  |
| 2011207,1800.3%2012551,6920.8%20131,024,0131.4%20141,741,1882.4%20152,779,9103.8%20164,541,7536.3%20177,020,0789.7%20189,056,57312.5%  | Year                                      |  |                    |  |  |  |
| 2012551,6920.8%20131,024,0131.4%20141,741,1882.4%20152,779,9103.8%20164,541,7536.3%20177,020,0789.7%20189,056,57312.5%   | 2010                                      | 30,822   | 0.0%               |  |  |  |
| 20131,024,0131.4%20141,741,1882.4%20152,779,9103.8%20164,541,7536.3%20177,020,0789.7%20189,056,57312.5%  | 2011                                      | 207,180  | 0.3%               |  |  |  |
| 20141,741,1882.4%20152,779,9103.8%20164,541,7536.3%20177,020,0789.7%20189,056,57312.5%   | 2012                                      | 551,692  | 0.8%               |  |  |  |
| 20152,779,9103.8%20164,541,7536.3%20177,020,0789.7%20189,056,57312.5%  | 2013                                      | 1,024,013  | 1.4%               |  |  |  |
| 20164,541,7536.3%20177,020,0789.7%20189,056,57312.5%   | 2014                                      | 1,741,188  | 2.4%               |  |  |  |
| 20177,020,0789.7%20189,056,57312.5%  | 2015                                      | 2,779,910  | 3.8%               |  |  |  |
| 2018 9,056,573 12.5%   | 2016                                      |  | 6.3%               |  |  |  |
| 2018 9,056,573 12.5%   | 2017                                      | 7,020,078  | 9.7%               |  |  |  |
|  |   |  | 12.5%              |  |  |  |
| 10,100,700   | 2019                                      | 10,106,755   | 14.0%              |  |  |  |

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Table 1k. Aggregated Characteristics of Has Diagnosis Code that Indicates a Range of Body Mass Index (BMI) that Classifies as Overweight in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|      | Has Diagnosis Code that Indicates a Range of BMI that Classifies as Overweight |       |  |  |  |
|------|--|-------|--|--|--|
|      | Number Percent   |       |  |  |  |
| 2020 | 8,331,427  | 11.5% |  |  |  |
| 2021 | 9,659,114  | 13.3% |  |  |  |
| 2022 | 8,539,608  | 11.8% |  |  |  |
| 2023 | 8,777,413  | 12.1% |  |  |  |

<sup>&</sup>lt;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.

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<sup>&</sup>lt;sup>2</sup>Race and Hispanic status are typically populated using self-report data from source and are classified as "Unknown" if not reported or provided.



Table 2. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|   | Members with | Eligible<br>Members <sup>1</sup> | Number of Members with<br>an Index Date per 10K<br>Eligible Members <sup>1</sup> | Total Number of Index Dates | Eligible Member<br>Years <sup>1</sup> |
|---|--------------|----------------------------------|--|-----------------------------|---------------------------------------|
| Incident Capture (365-Day Was                         |              |                                  | 0 * * * * * * * * * * * * * * * * * * *  |                             |                                       |
| Incident obesity                                      | 41,808,406   | 256,076,279                      | 1,632.65   | 62,961,256                  | 795,549,185.8                         |
| Incident overweight                                   | 24,525,780   | 261,059,251                      | 939.47   | 32,452,570                  | 857,493,944.3                         |
| Incident smoking                                      | 40,664,965   | 256,469,018                      | 1,585.57   | 63,427,747                  | 798,271,369.2                         |
| Incident alcohol abuse or                             | 8,161,856    | 261,760,913                      | 311.81   | 10,133,623                  | 886,877,176.3                         |
| dependence  |              |                                  |  |                             |                                       |
| Incident drug abuse or dependence                     | 8,826,792    | 262,067,942                      | 336.81   | 10,838,956                  | 886,984,715.0                         |
| Incident history of Coronary                          | 8,019,614    | 261,853,815                      | 306.26   | 13,582,256                  | 877,843,764.3                         |
| Arterial Bypass Graft (CABG)                          |              |                                  |  |                             |                                       |
| or Percutaneous Transluminal                          |              |                                  |  |                             |                                       |
| Coronary Angioplasty (PTCA)                           | 2.025.444    | 262 202 427                      | 407.00   | 2 275 740                   | 000 040 7040                          |
| Incident history of sudden cardiac arrest             | 2,836,414    | 262,900,487                      | 107.89   | 2,975,718                   | 900,812,734.2                         |
|   |              |                                  |  |                             |                                       |
| Prevalent Capture of Confound                         | 48,379,256   | 262,961,230                      | 1,839.79   | 316,262,801                 | 901,917,349.3                         |
| Prevalent obesity                                     |              |                                  |  |                             |                                       |
| Prevalent overweight                                  | 26,351,868   | 262,961,230                      | 1,002.12   | 91,347,478                  | 901,917,349.3                         |
| Prevalent smoking                                     | 46,526,773   | 262,961,230                      | 1,769.34   | 307,530,400                 | 901,917,349.3                         |
| Prevalent alcohol abuse or                            | 9,343,054    | 262,961,230                      | 355.3  | 101,699,694                 | 901,917,349.3                         |
| dependence  |              |                                  |  |                             |                                       |
| Prevalent drug abuse or                               | 9,721,582    | 262,961,230                      | 369.7  | 66,477,840                  | 901,917,349.3                         |
| dependence Prevalent history of CABG or               | 0.005.604    | 262 061 220                      | 345.89   | 102 200 717                 | 001 017 240 2                         |
| PTCA  | 9,095,604    | 262,961,230                      | 343.69   | 103,308,717                 | 901,917,349.3                         |
| Prevalent history of sudden                           | 2,873,004    | 262,961,230                      | 109.26   | 9,092,987                   | 901,917,349.3                         |
| cardiac arrest  | _,0,0,00     |                                  | 200.20   | 3,002,007                   | 302,027,01010                         |
| Capture of Other Confounding                          | Covariates   |                                  |  |                             |                                       |
| Has non-missing value for                             | 118,798,367  | 136,735,309                      | 8,688.20   | 118,798,367                 | N/A                                   |
| reported race   |              |                                  |  |                             |                                       |
| Has non-missing value for                             | 30,685,551   | 33,230,421                       | 9,234.17   | 30,685,551                  | N/A                                   |
| imputed race  |              |                                  |  |                             |                                       |
| Has diagnosis code that                               | 64,912,835   | 262,961,230                      | 2,468.53   | 302,294,401                 | 901,917,349.3                         |
| indicates a range of Body                             |              |                                  |  |                             |                                       |
| Mass Index (BMI)                                      | 22 550 071   | 262 061 220                      | 1 727 02   | 150 501 002                 | 001 017 240 2                         |
| Has diagnosis code that indicates a range of BMI that | 32,550,071   | 262,961,230                      | 1,237.83   | 158,501,892                 | 901,917,349.3                         |
| classifies as obesity                                 |              |                                  |  |                             |                                       |
| Has diagnosis code that                               | 20,273,743   | 262,961,230                      | 770.98   | 72,367,526                  | 901,917,349.3                         |
| indicates a range of BMI that                         | ,            | ,                                | 3.33   | -,-3.,5-5                   | ,                                     |
| classifies as overweight                              |              |                                  |  |                             |                                       |

<sup>&</sup>lt;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.

N/A, Not Applicable

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Table 3. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by

| rear               |                               |                               |   |                                |                                       |
|--------------------|-------------------------------|-------------------------------|---|--------------------------------|---------------------------------------|
|                    |                               |                               | Number of Members with an                           | T-1-1-1                        | Eligible Mamba                        |
|                    | Members with an<br>Index Date | Eligible Members <sup>1</sup> | Index Date per 10K Eligible<br>Members <sup>1</sup> | Total Number of<br>Index Dates | Eligible Member<br>Years <sup>1</sup> |
| Incident Capture ( | (365-Day Washout)             |                               |   |                                | 15310                                 |
| Incident obesity   | •                             |                               |   |                                |                                       |
| 2010               | 748,283                       | 31,939,395                    | 234.28  | 748,283                        | 25,904,765.6                          |
| 2011               | 1,751,803                     | 46,721,727                    | 374.94  | 1,751,803                      | 38,949,901.7                          |
| 2012               | 2,033,790                     | 50,051,094                    | 406.34  | 2,033,790                      | 38,858,789.3                          |
| 2013               | 2,319,235                     | 47,022,320                    | 493.22  | 2,319,235                      | 39,000,522.1                          |
| 2014               | 2,835,665                     | 51,683,121                    | 548.66  | 2,835,665                      | 42,576,570.4                          |
| 2015               | 3,670,833                     | 63,369,341                    | 579.28  | 3,670,833                      | 51,862,088.9                          |
| 2016               | 4,613,543                     | 102,426,783                   | 450.42  | 4,613,543                      | 60,842,344.7                          |
| 2017               | 6,269,491                     | 96,769,298                    | 647.88  | 6,269,491                      | 77,968,926.4                          |
| 2018               | 7,044,257                     | 101,905,444                   | 691.25  | 7,044,257                      | 81,732,150.7                          |
| 2019               | 7,114,361                     | 100,039,333                   | 711.16  | 7,114,361                      | 80,075,812.2                          |
| 2020               | 6,881,625                     | 112,760,313                   | 610.29  | 6,881,625                      | 84,273,392.6                          |
| 2021               | 8,628,575                     | 111,208,708                   | 775.89  | 8,628,575                      | 92,785,721.7                          |
| 2022               | 4,514,456                     | 51,703,318                    | 873.15  | 4,514,456                      | 41,332,896.4                          |
| 2023               | 4,535,339                     | 49,120,945                    | 923.3   | 4,535,339                      | 39,385,303.1                          |
| Incident overweigi | ht                            |                               |   |                                |                                       |
| 2010               | 136,080                       | 32,344,974                    | 42.07   | 136,080                        | 26,741,854.8                          |
| 2011               | 351,189                       | 47,740,827                    | 73.56   | 351,189                        | 40,998,454.2                          |
| 2012               | 540,976                       | 51,426,993                    | 105.19  | 540,976                        | 41,145,983.1                          |
| 2013               | 757,300                       | 48,425,707                    | 156.38  | 757,300                        | 41,541,305.9                          |
| 2014               | 1,105,410                     | 53,446,989                    | 206.82  | 1,105,410                      | 45,579,684.9                          |
| 2015               | 1,661,011                     | 65,624,482                    | 253.11  | 1,661,011                      | 55,510,214.8                          |
| 2016               | 2,360,162                     | 106,748,014                   | 221.1   | 2,360,162                      | 65,176,564.2                          |
| 2017               | 3,439,218                     | 100,529,334                   | 342.11  | 3,439,218                      | 83,603,859.8                          |
| 2018               | 4,004,380                     | 106,267,139                   | 376.82  | 4,004,380                      | 88,040,535.8                          |
| 2019               | 4,125,158                     | 104,762,390                   | 393.76  | 4,125,158                      | 86,726,403.0                          |
| 2020               | 3,580,069                     | 118,231,848                   | 302.8   | 3,580,069                      | 91,356,320.4                          |
| 2021               | 4,412,709                     | 116,331,974                   | 379.32  | 4,412,709                      | 100,853,725.0                         |
| 2022               | 2,938,644                     | 55,592,962                    | 528.6   | 2,938,644                      | 46,082,614.3                          |
| 2023               | 3,040,264                     | 53,102,847                    | 572.52  | 3,040,264                      | 44,136,424.3                          |
| Incident smoking   |                               |                               |   |                                |                                       |
| 2010               | 878,718                       | 31,847,875                    | 275.91  | 878,718                        | 25,748,003.1                          |
| 2011               | 2,390,006                     | 46,173,721                    | 517.61  | 2,390,006                      | 37,597,074.4                          |
| 2012               | 2,708,061                     | 49,453,216                    | 547.6   | 2,708,061                      | 37,861,180.5                          |
|                    |                               |                               |   |                                |                                       |

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Table 3. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Year

| Year                |                            |                               |  |                             |                                       |
|---------------------|----------------------------|-------------------------------|--|-----------------------------|---------------------------------------|
|                     | Members with an Index Date | Eligible Members <sup>1</sup> | Number of Members with an Index Date per 10K Eligible Members <sup>1</sup> | Total Number of Index Dates | Eligible Member<br>Years <sup>1</sup> |
| 2013                | 2,984,761                  | 46,487,740                    | 642.05   | 2,984,761                   | 38,012,900.9                          |
| 2014                | 3,646,470                  | 51,199,182                    | 712.21   | 3,646,470                   | 41,555,724.5                          |
| 2015                | 4,391,424                  | 62,934,966                    | 697.77   | 4,391,424                   | 50,985,749.6                          |
| 2016                | 5,261,178                  | 102,053,387                   | 515.53   | 5,261,178                   | 59,778,915.9                          |
| 2017                | 6,280,205                  | 96,421,647                    | 651.33   | 6,280,205                   | 77,556,308.4                          |
| 2018                | 6,670,481                  | 102,128,188                   | 653.15   | 6,670,481                   | 82,211,553.2                          |
| 2019                | 6,742,942                  | 100,741,903                   | 669.33   | 6,742,942                   | 81,241,011.0                          |
| 2020                | 5,914,530                  | 113,804,341                   | 519.71   | 5,914,530                   | 85,923,208.2                          |
| 2021                | 6,981,824                  | 112,662,160                   | 619.71   | 6,981,824                   | 95,553,580.4                          |
| 2022                | 4,357,502                  | 53,323,164                    | 817.19   | 4,357,502                   | 42,965,752.4                          |
| 2023                | 4,219,645                  | 50,929,669                    | 828.52   | 4,219,645                   | 41,280,406.8                          |
| Incident alcohol ab | ouse or dependence         |                               |  |                             |                                       |
| 2010                | 158,623                    | 32,292,203                    | 49.12  | 158,623                     | 26,686,211.4                          |
| 2011                | 399,590                    | 47,560,622                    | 84.02  | 399,590                     | 40,771,690.7                          |
| 2012                | 422,166                    | 51,300,978                    | 82.29  | 422,166                     | 41,067,631.6                          |
| 2013                | 441,151                    | 48,389,066                    | 91.17  | 441,151                     | 41,700,126.1                          |
| 2014                | 487,845                    | 53,553,468                    | 91.09  | 487,845                     | 46,103,635.9                          |
| 2015                | 622,731                    | 65,908,139                    | 94.48  | 622,731                     | 56,524,002.0                          |
| 2016                | 770,896                    | 107,642,707                   | 71.62  | 770,896                     | 66,790,671.8                          |
| 2017                | 1,001,129                  | 101,431,684                   | 98.7   | 1,001,129                   | 86,209,546.0                          |
| 2018                | 1,111,400                  | 107,710,834                   | 103.18   | 1,111,400                   | 91,722,357.8                          |
| 2019                | 1,120,825                  | 106,506,700                   | 105.24   | 1,120,825                   | 90,969,595.8                          |
| 2020                | 1,055,701                  | 120,155,564                   | 87.86  | 1,055,701                   | 95,495,953.4                          |
| 2021                | 1,228,915                  | 117,784,988                   | 104.34   | 1,228,915                   | 104,920,944.6                         |
| 2022                | 625,978                    | 57,497,276                    | 108.87   | 625,978                     | 49,912,023.9                          |
| 2023                | 686,673                    | 55,046,132                    | 124.75   | 686,673                     | 48,002,785.2                          |
| Incident drug abus  | e or dependence            |                               |  |                             |                                       |
| 2010                | 134,505                    | 32,320,517                    | 41.62  | 134,505                     | 26,732,937.2                          |
| 2011                | 397,191                    | 47,596,432                    | 83.45  | 397,191                     | 40,800,280.4                          |
| 2012                | 434,188                    | 51,332,756                    | 84.58  | 434,188                     | 41,074,783.4                          |
| 2013                | 461,485                    | 48,409,770                    | 95.33  | 461,485                     | 41,694,293.6                          |
| 2014                | 527,389                    | 53,579,351                    | 98.43  | 527,389                     | 46,090,062.2                          |
| 2015                | 688,081                    | 65,917,732                    | 104.38   | 688,081                     | 56,443,639.6                          |
| 2016                | 748,843                    | 107,705,719                   | 69.53  | 748,843                     | 66,796,685.6                          |
| 2017                | 1,118,012                  | 101,565,155                   | 110.08   | 1,118,012                   | 86,241,281.8                          |

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Table 3. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Year

| Year                |                            |                               |  |                             |                                       |
|---------------------|----------------------------|-------------------------------|--|-----------------------------|---------------------------------------|
|                     | Members with an Index Date | Eligible Members <sup>1</sup> | Number of Members with an Index Date per 10K Eligible Members <sup>1</sup> | Total Number of Index Dates | Eligible Member<br>Years <sup>1</sup> |
| 2018                | 1,275,995                  | 107,821,931                   | 118.34   | 1,275,995                   | 91,676,381.1                          |
| 2019                | 1,295,293                  | 106,605,082                   | 121.5  | 1,295,293                   | 90,899,620.7                          |
| 2020                | 1,231,800                  | 120,205,608                   | 102.47   | 1,231,800                   | 95,385,751.0                          |
| 2021                | 1,444,633                  | 117,882,977                   | 122.55   | 1,444,633                   | 104,777,475.3                         |
| 2022                | 549,864                    | 57,659,536                    | 95.36  | 549,864                     | 50,099,424.2                          |
| 2023                | 531,677                    | 55,241,634                    | 96.25  | 531,677                     | 48,272,098.9                          |
| Incident history of | Coronary Arterial By       | pass Graft (CABG) o           | r Percutaneous Transluminal Coro   | nary Angioplasty (Pi        | ΓCA)                                  |
| 2010                | 173,107                    | 32,255,851                    | 53.67  | 173,107                     | 26,622,525.7                          |
| 2011                | 862,191                    | 47,183,693                    | 182.73   | 862,191                     | 40,049,254.0                          |
| 2012                | 844,875                    | 50,791,908                    | 166.34   | 844,875                     | 40,273,498.5                          |
| 2013                | 864,124                    | 47,931,833                    | 180.28   | 864,124                     | 40,896,464.0                          |
| 2014                | 971,133                    | 53,040,753                    | 183.09   | 971,133                     | 45,193,231.6                          |
| 2015                | 1,090,989                  | 65,432,513                    | 166.73   | 1,090,989                   | 55,691,734.8                          |
| 2016                | 1,170,750                  | 107,466,127                   | 108.94   | 1,170,750                   | 65,964,692.6                          |
| 2017                | 1,143,765                  | 101,009,733                   | 113.23   | 1,143,765                   | 85,645,267.5                          |
| 2018                | 1,153,638                  | 107,319,180                   | 107.5  | 1,153,638                   | 91,239,772.3                          |
| 2019                | 1,183,440                  | 106,115,850                   | 111.52   | 1,183,440                   | 90,490,848.8                          |
| 2020                | 1,045,668                  | 119,863,190                   | 87.24  | 1,045,668                   | 95,102,807.2                          |
| 2021                | 1,122,484                  | 117,517,339                   | 95.52  | 1,122,484                   | 104,744,649.6                         |
| 2022                | 992,096                    | 56,760,741                    | 174.79   | 992,096                     | 48,877,259.6                          |
| 2023                | 963,996                    | 54,350,940                    | 177.37   | 963,996                     | 47,051,758.2                          |
| Incident history of | sudden cardiac arre        | st                            |  |                             |                                       |
| 2010                | 26,012                     | 32,383,943                    | 8.03   | 26,012                      | 26,871,860.4                          |
| 2011                | 161,740                    | 47,808,240                    | 33.83  | 161,740                     | 41,259,255.4                          |
| 2012                | 169,380                    | 51,605,709                    | 32.82  | 169,380                     | 41,598,307.3                          |
| 2013                | 180,028                    | 48,678,386                    | 36.98  | 180,028                     | 42,262,210.8                          |
| 2014                | 199,482                    | 53,876,493                    | 37.03  | 199,482                     | 46,718,105.6                          |
| 2015                | 214,399                    | 66,323,042                    | 32.33  | 214,399                     | 57,288,330.3                          |
| 2016                | 228,234                    | 108,682,054                   | 21   | 228,234                     | 67,810,819.3                          |
| 2017                | 266,524                    | 102,240,825                   | 26.07  | 266,524                     | 87,620,874.9                          |
| 2018                | 262,614                    | 108,612,252                   | 24.18  | 262,614                     | 93,279,678.8                          |
| 2019                | 257,688                    | 107,453,716                   | 23.98  | 257,688                     | 92,583,085.7                          |
| 2020                | 293,193                    | 121,295,518                   | 24.17  | 293,193                     | 97,147,790.7                          |
| 2021                | 305,913                    | 118,763,037                   | 25.76  | 305,913                     | 106,696,892.4                         |
| 2022                | 215,511                    | 57,994,052                    | 37.16  | 215,511                     | 50,762,428.5                          |

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Table 3. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Year

| rear                     |                            |                               |  |                             |                                       |
|--------------------------|----------------------------|-------------------------------|--|-----------------------------|---------------------------------------|
|                          | Members with an Index Date | Eligible Members <sup>1</sup> | Number of Members with an Index Date per 10K Eligible Members <sup>1</sup> | Total Number of Index Dates | Eligible Member<br>Years <sup>1</sup> |
| 2023                     | 195,000                    | 55,567,173                    | 35.09  | 195,000                     | 48,913,093.9                          |
| <b>Prevalent Capture</b> | of Confounding Co          | nditions                      |  |                             |                                       |
| Prevalent obesity        |                            |                               |  |                             |                                       |
| 2010                     | 1,045,982                  | 32,387,095                    | 322.96   | 2,122,375                   | 26,881,489.0                          |
| 2011                     | 2,606,152                  | 47,822,082                    | 544.97   | 6,607,460                   | 41,306,316.9                          |
| 2012                     | 3,093,422                  | 51,626,134                    | 599.2  | 7,960,352                   | 41,649,996.1                          |
| 2013                     | 3,668,240                  | 48,696,270                    | 753.29   | 9,562,900                   | 42,318,091.1                          |
| 2014                     | 4,637,816                  | 53,897,345                    | 860.49   | 12,219,264                  | 46,781,066.8                          |
| 2015                     | 6,100,235                  | 66,348,574                    | 919.42   | 16,041,708                  | 57,359,930.4                          |
| 2016                     | 7,811,007                  | 108,728,602                   | 718.39   | 21,318,100                  | 67,892,314.3                          |
| 2017                     | 10,794,779                 | 102,278,950                   | 1,055.43   | 29,111,667                  | 87,725,639.5                          |
| 2018                     | 12,648,577                 | 108,654,928                   | 1,164.11   | 34,421,523                  | 93,390,315.7                          |
| 2019                     | 13,349,764                 | 107,497,478                   | 1,241.87   | 37,124,507                  | 92,690,319.3                          |
| 2020                     | 13,037,567                 | 121,352,531                   | 1,074.35   | 34,580,403                  | 97,258,429.9                          |
| 2021                     | 15,130,435                 | 118,810,716                   | 1,273.49   | 40,775,423                  | 106,812,941.3                         |
| 2022                     | 10,025,166                 | 58,033,492                    | 1,727.48   | 31,395,616                  | 50,850,192.8                          |
| 2023                     | 10,235,021                 | 55,606,037                    | 1,840.63   | 33,021,503                  | 49,000,306.2                          |
| Prevalent overweig       | ght                        |                               |  |                             |                                       |
| 2010                     | 155,164                    | 32,387,095                    | 47.91  | 213,949                     | 26,881,489.0                          |
| 2011                     | 394,076                    | 47,822,082                    | 82.4   | 562,951                     | 41,306,316.9                          |
| 2012                     | 633,578                    | 51,626,134                    | 122.72   | 1,009,124                   | 41,649,996.1                          |
| 2013                     | 945,070                    | 48,696,270                    | 194.07   | 1,585,129                   | 42,318,091.1                          |
| 2014                     | 1,428,887                  | 53,897,345                    | 265.11   | 2,472,538                   | 46,781,066.8                          |
| 2015                     | 2,192,582                  | 66,348,574                    | 330.46   | 3,837,849                   | 57,359,930.4                          |
| 2016                     | 3,175,453                  | 108,728,602                   | 292.05   | 5,853,028                   | 67,892,314.3                          |
| 2017                     | 4,767,722                  | 102,278,950                   | 466.15   | 8,870,231                   | 87,725,639.5                          |
| 2018                     | 5,863,393                  | 108,654,928                   | 539.63   | 11,228,763                  | 93,390,315.7                          |
| 2019                     | 6,278,578                  | 107,497,478                   | 584.07   | 12,301,982                  | 92,690,319.3                          |
| 2020                     | 5,619,451                  | 121,352,531                   | 463.07   | 10,225,227                  | 97,258,429.9                          |
| 2021                     | 6,405,661                  | 118,810,716                   | 539.15   | 11,969,351                  | 106,812,941.3                         |
| 2022                     | 4,952,945                  | 58,033,492                    | 853.46   | 10,358,067                  | 50,850,192.8                          |
| 2023                     | 5,122,564                  | 55,606,037                    | 921.22   | 10,859,289                  | 49,000,306.2                          |
| Prevalent smoking        |                            |                               |  |                             |                                       |
| 2010                     | 1,204,680                  | 32,387,095                    | 371.96   | 2,119,045                   | 26,881,489.0                          |
| 2011                     | 3,640,262                  | 47,822,082                    | 761.21   | 8,253,797                   | 41,306,316.9                          |
|                          |                            |                               |  |                             |                                       |

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Table 3. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Year

| Year                               |                            |                               |  |                             |                                       |  |  |
|------------------------------------|----------------------------|-------------------------------|--|-----------------------------|---------------------------------------|--|--|
|                                    | Members with an Index Date | Eligible Members <sup>1</sup> | Number of Members with an Index Date per 10K Eligible Members <sup>1</sup> | Total Number of Index Dates | Eligible Member<br>Years <sup>1</sup> |  |  |
| 2012                               | 4,183,049                  | 51,626,134                    | 810.26   | 9,902,093                   | 41,649,996.1                          |  |  |
| 2012                               | 4,746,360                  | 48,696,270                    | 974.69   | 11,699,685                  | 42,318,091.1                          |  |  |
| 2013                               | 5,824,027                  | 53,897,345                    | 1,080.58   | 14,670,353                  | 46,781,066.8                          |  |  |
| 2014                               | 7,124,887                  | 66,348,574                    | 1,080.38   | 18,286,217                  | 57,359,930.4                          |  |  |
| 2015                               | 8,889,990                  | 108,728,602                   | 817.63   | 24,434,420                  | 67,892,314.3                          |  |  |
| 2016                               | 10,951,595                 | 108,728,802                   | 1,070.76   | 30,296,214                  | 87,725,639.5                          |  |  |
| 2017                               | 11,905,225                 | 102,278,930                   | 1,095.69   | 33,638,742                  | 93,390,315.7                          |  |  |
| 2018                               | 12,212,689                 | 108,034,928                   | 1,136.09   | 35,798,207                  | 92,690,319.3                          |  |  |
| 2019                               | 12,212,089                 | 107,457,478                   | 920.53   | 32,278,967                  | 97,258,429.9                          |  |  |
| 2020                               | 12,081,327                 | 118,810,716                   | 1,016.85   | 34,533,664                  | 106,812,941.3                         |  |  |
| 2021                               | 8,353,660                  | 58,033,492                    | 1,439.45   | 25,859,923                  | 50,850,192.8                          |  |  |
| 2022                               | 8,227,257                  | 55,606,037                    | 1,479.56   | 25,759,073                  | 49,000,306.2                          |  |  |
|                                    | abuse or dependence        |                               | 1,473.30   | 23,733,073                  | 43,000,300.2                          |  |  |
| 2010                               | 215,173                    | 32,387,095                    | 66.44  | 864,111                     | 26,881,489.0                          |  |  |
| 2011                               | 590,556                    | 47,822,082                    | 123.49   | 2,737,937                   | 41,306,316.9                          |  |  |
| 2012                               | 632,740                    | 51,626,134                    | 122.56   | 2,984,929                   | 41,649,996.1                          |  |  |
| 2013                               | 671,119                    | 48,696,270                    | 137.82   | 3,218,125                   | 42,318,091.1                          |  |  |
| 2014                               | 743,872                    | 53,897,345                    | 138.02   | 3,576,978                   | 46,781,066.8                          |  |  |
| 2015                               | 942,605                    | 66,348,574                    | 142.07   | 4,635,297                   | 57,359,930.4                          |  |  |
| 2016                               | 1,192,784                  | 108,728,602                   | 109.7  | 6,821,894                   | 67,892,314.3                          |  |  |
| 2017                               | 1,614,386                  | 102,278,950                   | 157.84   | 10,595,862                  | 87,725,639.5                          |  |  |
| 2018                               | 1,804,692                  | 108,654,928                   | 166.09   | 12,478,370                  | 93,390,315.7                          |  |  |
| 2019                               | 1,857,405                  | 107,497,478                   | 172.79   | 13,418,038                  | 92,690,319.3                          |  |  |
| 2020                               | 1,823,154                  | 121,352,531                   | 150.24   | 13,847,409                  | 97,258,429.9                          |  |  |
| 2021                               | 2,045,938                  | 118,810,716                   | 172.2  | 15,979,491                  | 106,812,941.3                         |  |  |
| 2022                               | 1,046,049                  | 58,033,492                    | 180.25   | 5,219,621                   | 50,850,192.8                          |  |  |
| 2023                               | 1,128,216                  | 55,606,037                    | 202.89   | 5,321,632                   | 49,000,306.2                          |  |  |
| Prevalent drug abuse or dependence |                            |                               |  |                             |                                       |  |  |
| 2010                               | 169,949                    | 32,387,095                    | 52.47  | 494,754                     | 26,881,489.0                          |  |  |
| 2011                               | 555,614                    | 47,822,082                    | 116.18   | 1,947,583                   | 41,306,316.9                          |  |  |
| 2012                               | 621,254                    | 51,626,134                    | 120.34   | 2,234,753                   | 41,649,996.1                          |  |  |
| 2013                               | 668,564                    | 48,696,270                    | 137.29   | 2,465,723                   | 42,318,091.1                          |  |  |
| 2014                               | 755,015                    | 53,897,345                    | 140.08   | 2,713,121                   | 46,781,066.8                          |  |  |
| 2015                               | 978,086                    | 66,348,574                    | 147.42   | 3,250,239                   | 57,359,930.4                          |  |  |
| 2016                               | 1,044,893                  | 108,728,602                   | 96.1   | 4,190,510                   | 67,892,314.3                          |  |  |

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Table 3. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Year

| Year                |                            |                               |  |                             |                                       |
|---------------------|----------------------------|-------------------------------|--|-----------------------------|---------------------------------------|
|                     | Members with an Index Date | Eligible Members <sup>1</sup> | Number of Members with an Index Date per 10K Eligible Members <sup>1</sup> | Total Number of Index Dates | Eligible Member<br>Years <sup>1</sup> |
| 2017                | 1,579,436                  | 102,278,950                   | 154.42   | 6,972,399                   | 87,725,639.5                          |
| 2017                | 1,824,617                  | 102,278,930                   | 167.93   | 8,534,824                   | 93,390,315.7                          |
| 2018                | 1,824,017                  | 108,034,928                   | 176.28   | 9,177,536                   | 92,690,319.3                          |
| 2019                | 1,894,924                  | 107,497,478                   | 154.43   | 9,254,771                   | 97,258,429.9                          |
| 2020                |                            |                               | 179.75   | 10,174,771                  |                                       |
| 2021                | 2,135,678                  | 118,810,716                   | 140.03   | 2,638,563                   | 106,812,941.3                         |
| 2022                | 812,629                    | 58,033,492                    |  |                             | 50,850,192.8                          |
|                     | 785,130                    | 55,606,037                    | 141.2  | 2,428,293                   | 49,000,306.2                          |
| Prevalent history o |                            | 22 207 005                    | 05.77  | 052.704                     | 26 004 400 0                          |
| 2010                | 277,785                    | 32,387,095                    | 85.77  | 852,704                     | 26,881,489.0                          |
| 2011                | 1,420,290                  | 47,822,082                    | 296.99   | 4,814,941                   | 41,306,316.9                          |
| 2012                | 1,486,415                  | 51,626,134                    | 287.92   | 5,048,913                   | 41,649,996.1                          |
| 2013                | 1,535,794                  | 48,696,270                    | 315.38   | 5,268,210                   | 42,318,091.1                          |
| 2014                | 1,724,698                  | 53,897,345                    | 320  | 5,998,265                   | 46,781,066.8                          |
| 2015                | 1,897,385                  | 66,348,574                    | 285.97   | 6,756,392                   | 57,359,930.4                          |
| 2016                | 2,156,896                  | 108,728,602                   | 198.37   | 8,500,976                   | 67,892,314.3                          |
| 2017                | 2,282,657                  | 102,278,950                   | 223.18   | 9,241,868                   | 87,725,639.5                          |
| 2018                | 2,354,321                  | 108,654,928                   | 216.68   | 9,701,698                   | 93,390,315.7                          |
| 2019                | 2,427,715                  | 107,497,478                   | 225.84   | 10,421,410                  | 92,690,319.3                          |
| 2020                | 2,247,539                  | 121,352,531                   | 185.21   | 8,828,578                   | 97,258,429.9                          |
| 2021                | 2,279,717                  | 118,810,716                   | 191.88   | 9,542,580                   | 106,812,941.3                         |
| 2022                | 2,139,342                  | 58,033,492                    | 368.64   | 9,122,010                   | 50,850,192.8                          |
| 2023                | 2,104,828                  | 55,606,037                    | 378.53   | 9,210,172                   | 49,000,306.2                          |
| -                   | f sudden cardiac arr       |                               |  |                             |                                       |
| 2010                | 27,233                     | 32,387,095                    | 8.41   | 39,457                      | 26,881,489.0                          |
| 2011                | 169,168                    | 47,822,082                    | 35.37  | 395,131                     | 41,306,316.9                          |
| 2012                | 178,246                    | 51,626,134                    | 34.53  | 426,275                     | 41,649,996.1                          |
| 2013                | 190,563                    | 48,696,270                    | 39.13  | 473,467                     | 42,318,091.1                          |
| 2014                | 212,304                    | 53,897,345                    | 39.39  | 540,770                     | 46,781,066.8                          |
| 2015                | 230,054                    | 66,348,574                    | 34.67  | 602,686                     | 57,359,930.4                          |
| 2016                | 246,698                    | 108,728,602                   | 22.69  | 674,781                     | 67,892,314.3                          |
| 2017                | 289,805                    | 102,278,950                   | 28.33  | 809,464                     | 87,725,639.5                          |
| 2018                | 289,169                    | 108,654,928                   | 26.61  | 851,881                     | 93,390,315.7                          |
| 2019                | 286,282                    | 107,497,478                   | 26.63  | 885,772                     | 92,690,319.3                          |
| 2020                | 323,289                    | 121,352,531                   | 26.64  | 965,898                     | 97,258,429.9                          |
| 2021                | 337,099                    | 118,810,716                   | 28.37  | 1,025,612                   | 106,812,941.3                         |

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Table 3. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Year

| rear   |                            |                               |  |                             |                                       |  |  |
|--|----------------------------|-------------------------------|--|-----------------------------|---------------------------------------|--|--|
|  | Members with an Index Date | Eligible Members <sup>1</sup> | Number of Members with an Index Date per 10K Eligible Members <sup>1</sup> | Total Number of Index Dates | Eligible Member<br>Years <sup>1</sup> |  |  |
| 2022   | 243,439                    | 58,033,492                    | 41.95  | 727,955                     | 50,850,192.8                          |  |  |
| 2023   | 223,361                    | 55,606,037                    | 40.17  | 673,838                     | 49,000,306.2                          |  |  |
| Capture of Other O   | Confounding Covaria        | ates                          |  |                             |                                       |  |  |
| Has diagnosis code that indicates a range of Body Mass Index (BMI) |                            |                               |  |                             |                                       |  |  |
| 2010   | 206,880                    | 32,387,095                    | 63.88  | 283,120                     | 26,881,489.0                          |  |  |
| 2011   | 939,763                    | 47,822,082                    | 196.51   | 1,488,553                   | 41,306,316.9                          |  |  |
| 2012   | 1,553,738                  | 51,626,134                    | 300.96   | 2,774,246                   | 41,649,996.1                          |  |  |
| 2013   | 2,407,125                  | 48,696,270                    | 494.31   | 4,527,771                   | 42,318,091.1                          |  |  |
| 2014   | 3,730,589                  | 53,897,345                    | 692.17   | 7,288,668                   | 46,781,066.8                          |  |  |
| 2015   | 5,889,271                  | 66,348,574                    | 887.63   | 11,591,043                  | 57,359,930.4                          |  |  |
| 2016   | 8,944,329                  | 108,728,602                   | 822.63   | 18,686,493                  | 67,892,314.3                          |  |  |
| 2017   | 13,503,074                 | 102,278,950                   | 1,320.22   | 28,426,013                  | 87,725,639.5                          |  |  |
| 2018   | 16,962,681                 | 108,654,928                   | 1,561.15   | 36,767,302                  | 93,390,315.7                          |  |  |
| 2019   | 18,625,851                 | 107,497,478                   | 1,732.68   | 41,296,320                  | 92,690,319.3                          |  |  |
| 2020   | 17,590,965                 | 121,352,531                   | 1,449.58   | 35,683,528                  | 97,258,429.9                          |  |  |
| 2021   | 20,174,033                 | 118,810,716                   | 1,698.00   | 42,133,681                  | 106,812,941.3                         |  |  |
| 2022   | 14,510,616                 | 58,033,492                    | 2,500.39   | 35,161,625                  | 50,850,192.8                          |  |  |
| 2023   | 14,728,563                 | 55,606,037                    | 2,648.73   | 36,186,038                  | 49,000,306.2                          |  |  |
| Has diagnosis code   | e that indicates a rai     | nge of BMI that class         | sifies as obesity  |                             |                                       |  |  |
| 2010   | 136,925                    | 32,387,095                    | 42.28  | 200,539                     | 26,881,489.0                          |  |  |
| 2011   | 574,168                    | 47,822,082                    | 120.06   | 958,859                     | 41,306,316.9                          |  |  |
| 2012   | 892,937                    | 51,626,134                    | 172.96   | 1,608,132                   | 41,649,996.1                          |  |  |
| 2013   | 1,312,151                  | 48,696,270                    | 269.46   | 2,481,448                   | 42,318,091.1                          |  |  |
| 2014   | 1,966,168                  | 53,897,345                    | 364.8  | 3,898,686                   | 46,781,066.8                          |  |  |
| 2015   | 2,989,311                  | 66,348,574                    | 450.55   | 6,067,782                   | 57,359,930.4                          |  |  |
| 2016   | 4,520,198                  | 108,728,602                   | 415.73   | 9,858,346                   | 67,892,314.3                          |  |  |
| 2017   | 6,615,340                  | 102,278,950                   | 646.79   | 14,640,492                  | 87,725,639.5                          |  |  |
| 2018   | 8,166,556                  | 108,654,928                   | 751.6  | 18,717,095                  | 93,390,315.7                          |  |  |
| 2019   | 8,845,925                  | 107,497,478                   | 822.9  | 20,909,057                  | 92,690,319.3                          |  |  |
| 2020   | 8,364,293                  | 121,352,531                   | 689.26   | 18,431,580                  | 97,258,429.9                          |  |  |
| 2021   | 9,781,491                  | 118,810,716                   | 823.28   | 22,089,891                  | 106,812,941.3                         |  |  |
| 2022   | 7,437,567                  | 58,033,492                    | 1,281.60   | 18,978,285                  | 50,850,192.8                          |  |  |
| 2023   | 7,593,076                  | 55,606,037                    | 1,365.51   | 19,661,700                  | 49,000,306.2                          |  |  |
| Has diagnosis code   | e that indicates a rar     | nge of BMI that class         | ifies as overweight  |                             |                                       |  |  |
| 2010   | 25,347                     | 32,387,095                    | 7.83   | 30,822                      | 26,881,489.0                          |  |  |
|  |                            |                               |  |                             |                                       |  |  |

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Table 3. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Year

|      | Members with an Index Date | Eligible Members <sup>1</sup> | Number of Members with an Index Date per 10K Eligible Members <sup>1</sup> | Total Number of Index Dates | Eligible Member<br>Years <sup>1</sup> |
|------|----------------------------|-------------------------------|--|-----------------------------|---------------------------------------|
| 2011 | 153,466                    | 47,822,082                    | 32.09  | 207,180                     | 41,306,316.9                          |
| 2012 | 332,286                    | 51,626,134                    | 64.36  | 551,692                     | 41,649,996.1                          |
| 2013 | 586,039                    | 48,696,270                    | 120.35   | 1,024,013                   | 42,318,091.1                          |
| 2014 | 969,468                    | 53,897,345                    | 179.87   | 1,741,188                   | 46,781,066.8                          |
| 2015 | 1,533,250                  | 66,348,574                    | 231.09   | 2,779,910                   | 57,359,930.4                          |
| 2016 | 2,391,996                  | 108,728,602                   | 220  | 4,541,753                   | 67,892,314.3                          |
| 2017 | 3,654,723                  | 102,278,950                   | 357.33   | 7,020,078                   | 87,725,639.5                          |
| 2018 | 4,610,227                  | 108,654,928                   | 424.3  | 9,056,573                   | 93,390,315.7                          |
| 2019 | 5,058,385                  | 107,497,478                   | 470.56   | 10,106,755                  | 92,690,319.3                          |
| 2020 | 4,545,221                  | 121,352,531                   | 374.55   | 8,331,427                   | 97,258,429.9                          |
| 2021 | 5,121,283                  | 118,810,716                   | 431.05   | 9,659,114                   | 106,812,941.3                         |
| 2022 | 4,092,335                  | 58,033,492                    | 705.17   | 8,539,608                   | 50,850,192.8                          |
| 2023 | 4,171,748                  | 55,606,037                    | 750.23   | 8,777,413                   | 49,000,306.2                          |

<sup>&</sup>lt;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.

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Age Group and Year

|             | Members with an  | Flicible Bassels 1            | Number of Members with an Index            | Total Number of | Eligible Member              |  |  |  |  |
|-------------|--|-------------------------------|--|-----------------|------------------------------|--|--|--|--|
| Incident Co | Index Date   | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup>           |  |  |  |  |
|             | Incident Capture (365-Day Washout) of Confounding Conditions  Incident obesity |                               |  |                 |                              |  |  |  |  |
| 0-17 years  | saity  |                               |  |                 |                              |  |  |  |  |
| 2010        | 60,381   | 7,511,539                     | 80.38                                      | 60,381          | 5,964,566.4                  |  |  |  |  |
| 2010        | 66,135   | 7,311,339                     | 93.12                                      | 66,135          | 5,642,514.3                  |  |  |  |  |
| 2011        | 69,443   | 7,102,121                     | 96.34                                      | 69,443          | 5,349,365.2                  |  |  |  |  |
| 2012        | 77,011   | 6,533,599                     | 117.87                                     | 77,011          | 5,193,854.0                  |  |  |  |  |
| 2013        | 99,172   | 7,124,014                     | 139.21                                     | 99,172          | 5,670,698.2                  |  |  |  |  |
| 2014        | 290,979  |                               | 213.73                                     | 290,979         |                              |  |  |  |  |
| 2015        | 521,900  | 13,614,282<br>33,017,481      | 158.07                                     | 521,900         | 11,085,843.3<br>16,655,388.9 |  |  |  |  |
| 2010        | 1,035,397  | 30,297,855                    | 341.74                                     | 1,035,397       | 24,695,005.2                 |  |  |  |  |
| 2017        |  |                               | 432.42                                     |                 |                              |  |  |  |  |
|             | 1,426,920  | 32,998,819<br>32,039,327      |  | 1,426,920       | 26,692,916.9                 |  |  |  |  |
| 2019        | 1,510,354  |                               | 471.41                                     | 1,510,354       | 25,819,675.4                 |  |  |  |  |
| 2020        | 1,739,006  | 37,167,187                    | 467.89                                     | 1,739,006       | 28,144,286.8                 |  |  |  |  |
| 2021        | 2,239,715  | 36,688,539                    | 610.47                                     | 2,239,715       | 31,070,157.9                 |  |  |  |  |
| 2022        | 283,100  | 6,718,541                     | 421.37                                     | 283,100         | 5,294,420.8                  |  |  |  |  |
| 2023        | 229,049  | 5,727,726                     | 399.9                                      | 229,049         | 4,509,777.9                  |  |  |  |  |
| 18-43 years | 241 005  | 12 006 506                    | 201.49                                     | 241.005         | 0.016.433.0                  |  |  |  |  |
| 2010        | 241,905  | 12,006,596                    | 201.48                                     | 241,905         | 9,016,423.0                  |  |  |  |  |
| 2011        | 333,454  | 12,518,891                    | 266.36                                     | 333,454         | 9,450,539.7                  |  |  |  |  |
| 2012        | 370,722  | 13,334,124                    | 278.03                                     | 370,722         | 9,352,512.8                  |  |  |  |  |
| 2013        | 404,140  | 12,220,523                    | 330.71                                     | 404,140         | 9,222,808.9                  |  |  |  |  |
| 2014        | 474,733  | 13,147,688                    | 361.08                                     | 474,733         | 9,857,162.4                  |  |  |  |  |
| 2015        | 684,599  | 16,475,801                    | 415.52                                     | 684,599         | 12,201,465.0                 |  |  |  |  |
| 2016        | 891,092  | 28,341,416                    | 314.41                                     | 891,092         | 14,250,415.7                 |  |  |  |  |
| 2017        | 1,441,310  | 27,859,620                    | 517.35                                     | 1,441,310       | 20,412,656.6                 |  |  |  |  |
| 2018        | 1,640,870  | 29,692,471                    | 552.62                                     | 1,640,870       | 21,747,584.2                 |  |  |  |  |
| 2019        | 1,645,952  | 29,232,035                    | 563.06                                     | 1,645,952       | 21,450,415.1                 |  |  |  |  |
| 2020        | 1,559,160  | 33,420,422                    | 466.53                                     | 1,559,160       | 22,644,075.6                 |  |  |  |  |
| 2021        | 2,054,028  | 34,168,096                    | 601.15                                     | 2,054,028       | 26,918,727.2                 |  |  |  |  |
| 2022        | 794,736  | 12,758,096                    | 622.93                                     | 794,736         | 9,390,208.7                  |  |  |  |  |
| 2023        | 820,865  | 11,897,101                    | 689.97                                     | 820,865         | 8,770,934.0                  |  |  |  |  |
| 44-64 years |  |                               |  |                 |                              |  |  |  |  |
| 2010        | 339,481  | 10,262,467                    | 330.8                                      | 339,481         | 8,231,125.8                  |  |  |  |  |
| 2011        | 620,673  | 12,720,125                    | 487.95                                     | 620,673         | 10,204,854.2                 |  |  |  |  |
| 2012        | 703,541  | 13,217,010                    | 532.3                                      | 703,541         | 9,969,803.3                  |  |  |  |  |

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Age Group and Year

| Age Group    | and Year        |                               |  |                 |                    |
|--------------|-----------------|-------------------------------|--|-----------------|--------------------|
|              | Members with an |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|              | Index Date      | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2013         | 782,031         | 12,385,550                    | 631.41                                     | 782,031         | 9,863,435.6        |
| 2014         | 917,877         | 13,290,762                    | 690.61                                     | 917,877         | 10,414,256.7       |
| 2015         | 1,130,962       | 14,686,927                    | 770.05                                     | 1,130,962       | 11,454,639.1       |
| 2016         | 1,355,244       | 20,811,524                    | 651.2                                      | 1,355,244       | 12,293,577.8       |
| 2017         | 1,752,906       | 19,763,002                    | 886.96                                     | 1,752,906       | 15,133,328.1       |
| 2018         | 1,856,469       | 20,220,213                    | 918.13                                     | 1,856,469       | 15,443,938.8       |
| 2019         | 1,816,735       | 19,681,519                    | 923.07                                     | 1,816,735       | 15,009,739.6       |
| 2020         | 1,612,045       | 21,222,050                    | 759.61                                     | 1,612,045       | 15,072,347.2       |
| 2021         | 1,957,664       | 20,553,585                    | 952.47                                     | 1,957,664       | 16,065,440.7       |
| 2022         | 1,209,486       | 11,123,878                    | 1,087.29                                   | 1,209,486       | 8,335,994.5        |
| 2023         | 1,225,068       | 10,429,852                    | 1,174.58                                   | 1,225,068       | 7,806,027.1        |
| ≥ 65 years   |                 |                               |  |                 |                    |
| 2010         | 106,516         | 3,109,047                     | 342.6                                      | 106,516         | 2,692,650.4        |
| 2011         | 731,541         | 15,482,855                    | 472.48                                     | 731,541         | 13,651,993.5       |
| 2012         | 890,084         | 17,380,975                    | 512.1                                      | 890,084         | 14,187,108.0       |
| 2013         | 1,056,053       | 16,950,097                    | 623.04                                     | 1,056,053       | 14,720,423.5       |
| 2014         | 1,343,883       | 19,291,588                    | 696.62                                     | 1,343,883       | 16,634,453.1       |
| 2015         | 1,564,293       | 20,052,879                    | 780.08                                     | 1,564,293       | 17,120,141.5       |
| 2016         | 1,845,307       | 21,961,420                    | 840.25                                     | 1,845,307       | 17,642,962.3       |
| 2017         | 2,039,878       | 21,107,014                    | 966.45                                     | 2,039,878       | 17,727,936.4       |
| 2018         | 2,119,998       | 21,421,686                    | 989.65                                     | 2,119,998       | 17,847,710.8       |
| 2019         | 2,141,320       | 21,448,711                    | 998.34                                     | 2,141,320       | 17,795,982.1       |
| 2020         | 1,971,414       | 23,464,244                    | 840.18                                     | 1,971,414       | 18,412,683.0       |
| 2021         | 2,377,168       | 22,615,835                    | 1,051.11                                   | 2,377,168       | 18,731,395.8       |
| 2022         | 2,227,134       | 22,152,760                    | 1,005.35                                   | 2,227,134       | 18,312,272.4       |
| 2023         | 2,260,357       | 22,048,136                    | 1,025.19                                   | 2,260,357       | 18,298,564.0       |
| Incident ove | erweight        |                               |  |                 |                    |
| 0-17 years   |                 |                               |  |                 |                    |
| 2010         | 30,837          | 7,526,892                     | 40.97                                      | 30,837          | 5,997,674.7        |
| 2011         | 36,305          | 7,119,830                     | 50.99                                      | 36,305          | 5,678,086.6        |
| 2012         | 42,532          | 7,229,986                     | 58.83                                      | 42,532          | 5,385,040.0        |
| 2013         | 51,205          | 6,553,310                     | 78.14                                      | 51,205          | 5,229,084.8        |
| 2014         | 70,915          | 7,146,911                     | 99.22                                      | 70,915          | 5,710,446.7        |
| 2015         | 193,183         | 13,681,593                    | 141.2                                      | 193,183         | 11,219,246.3       |
| 2016         | 326,491         | 33,483,022                    | 97.51                                      | 326,491         | 16,889,019.6       |
| 2017         | 604,050         | 30,554,915                    | 197.69                                     | 604,050         | 25,219,992.0       |
|              |                 |                               |  |                 |                    |

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Age Group and Year

| Age Gloup   |                 |                               |  |                 |                    |
|-------------|-----------------|-------------------------------|--|-----------------|--------------------|
|             | Members with an |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|             | Index Date      | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2018        | 743,087         | 33,362,038                    | 222.73                                     | 743,087         | 27,474,576.7       |
| 2019        | 801,016         | 32,516,609                    | 246.34                                     | 801,016         | 26,794,721.4       |
| 2020        | 826,848         | 37,778,480                    | 218.87                                     | 826,848         | 29,368,654.6       |
| 2021        | 1,012,836       | 37,324,711                    | 271.36                                     | 1,012,836       | 32,646,652.1       |
| 2022        | 225,737         | 6,795,826                     | 332.17                                     | 225,737         | 5,412,828.1        |
| 2023        | 190,615         | 5,779,384                     | 329.82                                     | 190,615         | 4,581,867.7        |
| 18-43 years |                 |                               |  |                 |                    |
| 2010        | 39,518          | 12,156,652                    | 32.51                                      | 39,518          | 9,283,937.4        |
| 2011        | 58,441          | 12,755,916                    | 45.81                                      | 58,441          | 9,851,224.0        |
| 2012        | 82,395          | 13,626,215                    | 60.47                                      | 82,395          | 9,777,834.1        |
| 2013        | 109,087         | 12,505,011                    | 87.23                                      | 109,087         | 9,674,306.7        |
| 2014        | 149,685         | 13,485,186                    | 111  | 149,685         | 10,369,801.6       |
| 2015        | 233,706         | 16,947,072                    | 137.9                                      | 233,706         | 12,910,695.3       |
| 2016        | 334,843         | 29,558,249                    | 113.28                                     | 334,843         | 15,162,744.7       |
| 2017        | 580,616         | 28,809,248                    | 201.54                                     | 580,616         | 21,832,109.7       |
| 2018        | 706,052         | 30,805,291                    | 229.2                                      | 706,052         | 23,374,138.3       |
| 2019        | 727,912         | 30,388,057                    | 239.54                                     | 727,912         | 23,112,342.0       |
| 2020        | 604,568         | 34,815,857                    | 173.65                                     | 604,568         | 24,379,108.7       |
| 2021        | 771,731         | 35,424,661                    | 217.85                                     | 771,731         | 28,992,102.9       |
| 2022        | 397,311         | 13,408,144                    | 296.32                                     | 397,311         | 10,198,066.4       |
| 2023        | 427,821         | 12,559,073                    | 340.65                                     | 427,821         | 9,572,887.5        |
| 44-64 years |                 |                               |  |                 |                    |
| 2010        | 49,587          | 10,468,386                    | 47.37                                      | 49,587          | 8,633,944.5        |
| 2011        | 96,940          | 13,169,372                    | 73.61                                      | 96,940          | 11,004,679.8       |
| 2012        | 146,021         | 13,791,840                    | 105.87                                     | 146,021         | 10,847,944.5       |
| 2013        | 199,516         | 12,979,173                    | 153.72                                     | 199,516         | 10,829,493.0       |
| 2014        | 278,183         | 14,019,947                    | 198.42                                     | 278,183         | 11,534,518.5       |
| 2015        | 402,805         | 15,592,570                    | 258.33                                     | 402,805         | 12,790,262.1       |
| 2016        | 558,559         | 22,374,711                    | 249.64                                     | 558,559         | 13,858,364.6       |
| 2017        | 806,558         | 21,189,766                    | 380.64                                     | 806,558         | 17,091,606.2       |
| 2018        | 916,232         | 21,834,161                    | 419.63                                     | 916,232         | 17,566,336.7       |
| 2019        | 919,215         | 21,359,851                    | 430.35                                     | 919,215         | 17,158,730.2       |
| 2020        | 730,444         | 23,053,506                    | 316.85                                     | 730,444         | 17,195,308.9       |
| 2021        | 877,304         | 22,209,374                    | 395.02                                     | 877,304         | 18,317,237.9       |
| 2022        | 619,887         | 12,474,928                    | 496.91                                     | 619,887         | 9,932,513.1        |
| 2023        | 651,344         | 11,805,373                    | 551.74                                     | 651,344         | 9,412,088.9        |
|             |                 |                               |  |                 |                    |

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| Age Gloup 8  |                               |                               |  |                             |                                       |
|--------------|-------------------------------|-------------------------------|--|-----------------------------|---------------------------------------|
|              | Members with an<br>Index Date | Eligible Members <sup>1</sup> | Number of Members with an Index Date per 10K Eligible Members <sup>1</sup> | Total Number of Index Dates | Eligible Member<br>Years <sup>1</sup> |
| ≥ 65 years   |                               |                               |  |                             |                                       |
| 2010         | 16,138                        | 3,174,045                     | 50.84  | 16,138                      | 2,826,298.2                           |
| 2011         | 159,503                       | 15,861,871                    | 100.56   | 159,503                     | 14,464,463.8                          |
| 2012         | 270,028                       | 17,940,361                    | 150.51   | 270,028                     | 15,135,164.4                          |
| 2013         | 397,492                       | 17,533,015                    | 226.71   | 397,492                     | 15,808,421.4                          |
| 2014         | 606,627                       | 20,059,057                    | 302.42   | 606,627                     | 17,964,918.0                          |
| 2015         | 831,317                       | 20,977,822                    | 396.28   | 831,317                     | 18,590,011.1                          |
| 2016         | 1,140,269                     | 23,174,730                    | 492.03   | 1,140,269                   | 19,266,435.3                          |
| 2017         | 1,447,994                     | 22,414,301                    | 646.01   | 1,447,994                   | 19,460,151.9                          |
| 2018         | 1,639,009                     | 22,900,469                    | 715.71   | 1,639,009                   | 19,625,484.0                          |
| 2019         | 1,677,015                     | 23,078,178                    | 726.67   | 1,677,015                   | 19,660,609.3                          |
| 2020         | 1,418,209                     | 25,329,096                    | 559.91   | 1,418,209                   | 20,413,248.2                          |
| 2021         | 1,750,838                     | 24,454,356                    | 715.96   | 1,750,838                   | 20,897,732.1                          |
| 2022         | 1,695,709                     | 24,103,911                    | 703.5  | 1,695,709                   | 20,539,206.6                          |
| 2023         | 1,770,484                     | 24,077,449                    | 735.33   | 1,770,484                   | 20,569,580.1                          |
| Incident smo | oking                         |                               |  |                             |                                       |
| 0-17 years   |                               |                               |  |                             |                                       |
| 2010         | 11,468                        | 7,528,681                     | 15.23  | 11,468                      | 6,015,831.8                           |
| 2011         | 11,061                        | 7,124,107                     | 15.53  | 11,061                      | 5,703,607.2                           |
| 2012         | 11,198                        | 7,239,070                     | 15.47  | 11,198                      | 5,416,486.0                           |
| 2013         | 9,959                         | 6,561,876                     | 15.18  | 9,959                       | 5,268,647.3                           |
| 2014         | 11,524                        | 7,160,585                     | 16.09  | 11,524                      | 5,766,626.6                           |
| 2015         | 45,963                        | 13,713,929                    | 33.52  | 45,963                      | 11,373,689.4                          |
| 2016         | 139,354                       | 33,721,496                    | 41.32  | 139,354                     | 17,077,902.4                          |
| 2017         | 251,333                       | 30,614,332                    | 82.1   | 251,333                     | 25,567,124.3                          |
| 2018         | 305,278                       | 33,442,555                    | 91.28  | 305,278                     | 27,909,417.3                          |
| 2019         | 335,091                       | 32,612,468                    | 102.75   | 335,091                     | 27,287,269.5                          |
| 2020         | 264,802                       | 37,923,235                    | 69.83  | 264,802                     | 29,937,155.8                          |
| 2021         | 309,441                       | 37,440,712                    | 82.65  | 309,441                     | 33,382,069.9                          |
| 2022         | 45,200                        | 6,858,574                     | 65.9   | 45,200                      | 5,618,727.2                           |
| 2023         | 26,964                        | 5,835,703                     | 46.21  | 26,964                      | 4,758,667.9                           |
| 18-43 years  |                               |                               |  |                             |                                       |
| 2010         | 296,415                       | 11,955,673                    | 247.93   | 296,415                     | 8,946,152.9                           |
| 2011         | 423,372                       | 12,410,074                    | 341.15   | 423,372                     | 9,295,509.3                           |
| 2012         | 451,832                       | 13,210,728                    | 342.02   | 451,832                     | 9,198,130.2                           |
| 2013         | 455,551                       | 12,116,740                    | 375.97   | 455,551                     | 9,091,566.1                           |

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| Age Group  |                 |                               |  |                 |                    |
|------------|-----------------|-------------------------------|--|-----------------|--------------------|
|            | Members with an |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|            | Index Date      | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2014       | 521,015         | 13,071,988                    | 398.57                                     | 521,015         | 9,759,085.4        |
| 2015       | 743,484         | 16,383,118                    | 453.81                                     | 743,484         | 12,080,674.5       |
| 2016       | 1,012,228       | 27,986,387                    | 361.69                                     | 1,012,228       | 13,962,670.7       |
| 2017       | 1,508,465       | 27,649,513                    | 545.57                                     | 1,508,465       | 20,163,863.4       |
| 2018       | 1,661,276       | 29,585,843                    | 561.51                                     | 1,661,276       | 21,632,051.6       |
| 2019       | 1,640,580       | 29,241,832                    | 561.04                                     | 1,640,580       | 21,484,227.4       |
| 2020       | 1,471,263       | 33,508,330                    | 439.07                                     | 1,471,263       | 22,702,882.6       |
| 2021       | 1,820,217       | 34,456,862                    | 528.26                                     | 1,820,217       | 27,236,714.2       |
| 2022       | 488,546         | 13,202,137                    | 370.05                                     | 488,546         | 9,955,684.9        |
| 2023       | 436,004         | 12,433,461                    | 350.67                                     | 436,004         | 9,464,201.5        |
| 44-64 year | S               |                               |  |                 |                    |
| 2010       | 398,910         | 10,221,232                    | 390.28                                     | 398,910         | 8,158,550.0        |
| 2011       | 795,195         | 12,481,472                    | 637.1                                      | 795,195         | 9,831,128.1        |
| 2012       | 846,366         | 12,953,411                    | 653.39                                     | 846,366         | 9,629,699.7        |
| 2013       | 881,080         | 12,140,915                    | 725.71                                     | 881,080         | 9,553,977.5        |
| 2014       | 994,210         | 13,075,915                    | 760.34                                     | 994,210         | 10,160,448.2       |
| 2015       | 1,195,210       | 14,484,833                    | 825.15                                     | 1,195,210       | 11,231,598.8       |
| 2016       | 1,399,255       | 20,414,930                    | 685.41                                     | 1,399,255       | 12,009,495.8       |
| 2017       | 1,743,711       | 19,536,231                    | 892.55                                     | 1,743,711       | 14,891,461.0       |
| 2018       | 1,841,937       | 20,131,716                    | 914.94                                     | 1,841,937       | 15,355,933.7       |
| 2019       | 1,812,750       | 19,711,921                    | 919.62                                     | 1,812,750       | 15,067,759.4       |
| 2020       | 1,557,823       | 21,289,838                    | 731.72                                     | 1,557,823       | 15,153,096.1       |
| 2021       | 1,804,545       | 20,754,710                    | 869.46                                     | 1,804,545       | 16,324,343.6       |
| 2022       | 917,079         | 11,737,230                    | 781.34                                     | 917,079         | 9,104,911.0        |
| 2023       | 878,095         | 11,164,408                    | 786.51                                     | 878,095         | 8,720,452.9        |
| ≥ 65 years |                 |                               |  |                 |                    |
| 2010       | 171,925         | 3,090,667                     | 556.27                                     | 171,925         | 2,627,468.4        |
| 2011       | 1,160,378       | 15,242,365                    | 761.28                                     | 1,160,378       | 12,766,829.8       |
| 2012       | 1,398,665       | 17,126,140                    | 816.68                                     | 1,398,665       | 13,616,864.6       |
| 2013       | 1,638,171       | 16,726,544                    | 979.38                                     | 1,638,171       | 14,098,710.0       |
| 2014       | 2,119,721       | 19,058,919                    | 1,112.19                                   | 2,119,721       | 15,869,564.3       |
| 2015       | 2,406,767       | 19,821,388                    | 1,214.23                                   | 2,406,767       | 16,299,786.9       |
| 2016       | 2,710,341       | 21,646,181                    | 1,252.11                                   | 2,710,341       | 16,728,847.1       |
| 2017       | 2,776,696       | 20,920,274                    | 1,327.28                                   | 2,776,696       | 16,933,859.7       |
| 2018       | 2,861,990       | 21,466,004                    | 1,333.27                                   | 2,861,990       | 17,314,150.6       |
| 2019       | 2,954,521       | 21,623,500                    | 1,366.35                                   | 2,954,521       | 17,401,754.6       |
|            |                 |                               |  |                 |                    |

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|               | Members with an     |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|---------------|---------------------|-------------------------------|--|-----------------|--------------------|
|               | Index Date          | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2020          | 2,620,642           | 23,694,843                    | 1,106.00                                   | 2,620,642       | 18,130,073.6       |
| 2021          | 3,047,621           | 22,953,669                    | 1,327.73                                   | 3,047,621       | 18,610,452.7       |
| 2022          | 2,906,677           | 22,640,352                    | 1,283.85                                   | 2,906,677       | 18,286,429.3       |
| 2023          | 2,878,582           | 22,549,040                    | 1,276.59                                   | 2,878,582       | 18,337,084.4       |
| Incident alco | ohol abuse or depen | dence                         |  |                 |                    |
| 0-17 years    |                     |                               |  |                 |                    |
| 2010          | 7,946               | 7,530,529                     | 10.55                                      | 7,946           | 6,018,094.6        |
| 2011          | 7,585               | 7,125,850                     | 10.64                                      | 7,585           | 5,705,886.7        |
| 2012          | 7,105               | 7,240,948                     | 9.81                                       | 7,105           | 5,419,188.0        |
| 2013          | 6,300               | 6,563,856                     | 9.6  | 6,300           | 5,271,537.8        |
| 2014          | 6,640               | 7,162,534                     | 9.27                                       | 6,640           | 5,770,010.0        |
| 2015          | 14,990              | 13,719,279                    | 10.93                                      | 14,990          | 11,386,631.0       |
| 2016          | 24,016              | 33,863,750                    | 7.09                                       | 24,016          | 17,171,789.6       |
| 2017          | 39,987              | 30,689,686                    | 13.03                                      | 39,987          | 25,783,461.6       |
| 2018          | 43,520              | 33,550,806                    | 12.97                                      | 43,520          | 28,204,252.3       |
| 2019          | 45,156              | 32,727,726                    | 13.8                                       | 45,156          | 27,605,390.8       |
| 2020          | 38,094              | 38,056,034                    | 10.01                                      | 38,094          | 30,270,249.9       |
| 2021          | 39,402              | 37,524,272                    | 10.5                                       | 39,402          | 33,670,007.4       |
| 2022          | 6,859               | 6,876,916                     | 9.97                                       | 6,859           | 5,665,492.0        |
| 2023          | 6,522               | 5,846,891                     | 11.15                                      | 6,522           | 4,783,768.4        |
| 18-43 years   |                     |                               |  |                 |                    |
| 2010          | 64,302              | 12,132,773                    | 53   | 64,302          | 9,249,966.2        |
| 2011          | 98,577              | 12,710,403                    | 77.56                                      | 98,577          | 9,782,483.8        |
| 2012          | 103,312             | 13,582,200                    | 76.06                                      | 103,312         | 9,719,674.1        |
| 2013          | 104,280             | 12,475,213                    | 83.59                                      | 104,280         | 9,643,062.0        |
| 2014          | 110,636             | 13,471,961                    | 82.12                                      | 110,636         | 10,375,161.1       |
| 2015          | 158,933             | 16,937,874                    | 93.83                                      | 158,933         | 12,944,919.8       |
| 2016          | 222,851             | 29,533,973                    | 75.46                                      | 222,851         | 15,205,664.9       |
| 2017          | 346,564             | 28,794,050                    | 120.36                                     | 346,564         | 21,952,575.3       |
| 2018          | 391,991             | 30,857,324                    | 127.03                                     | 391,991         | 23,639,744.1       |
| 2019          | 391,009             | 30,466,169                    | 128.34                                     | 391,009         | 23,444,997.0       |
| 2020          | 374,772             | 34,869,608                    | 107.48                                     | 374,772         | 24,655,429.9       |
| 2021          | 466,125             | 35,417,864                    | 131.61                                     | 466,125         | 29,200,656.4       |
| 2022          | 117,416             | 13,574,764                    | 86.5                                       | 117,416         | 10,550,199.4       |
| 2023          | 117,331             | 12,735,206                    | 92.13                                      | 117,331         | 9,942,009.4        |
| 44-64 years   |                     |                               |  |                 |                    |

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| Age Group a  | ina icai                   |                               |  |                             |                                       |
|--------------|----------------------------|-------------------------------|--|-----------------------------|---------------------------------------|
|              | Members with an Index Date | Eligible Members <sup>1</sup> | Number of Members with an Index Date per 10K Eligible Members <sup>1</sup> | Total Number of Index Dates | Eligible Member<br>Years <sup>1</sup> |
| 2010         | 65,212                     | 10,441,159                    | 62.46  | 65,212                      | 8,603,113.1                           |
| 2011         | 160,932                    | 13,067,079                    | 123.16   | 160,932                     | 10,863,627.3                          |
| 2012         | 167,685                    | 13,690,345                    | 122.48   | 167,685                     | 10,729,291.5                          |
| 2013         | 172,612                    | 12,900,831                    | 133.8  | 172,612                     | 10,764,213.6                          |
| 2014         | 184,519                    | 13,972,321                    | 132.06   | 184,519                     | 11,543,955.8                          |
| 2015         | 234,098                    | 15,565,697                    | 150.39   | 234,098                     | 12,871,114.3                          |
| 2016         | 279,352                    | 22,371,750                    | 124.87   | 279,352                     | 14,036,152.9                          |
| 2017         | 369,062                    | 21,254,289                    | 173.64   | 369,062                     | 17,419,224.2                          |
| 2018         | 404,883                    | 22,014,542                    | 183.92   | 404,883                     | 18,103,345.2                          |
| 2019         | 398,271                    | 21,597,860                    | 184.4  | 398,271                     | 17,794,563.2                          |
| 2020         | 364,788                    | 23,280,552                    | 156.69   | 364,788                     | 17,746,699.7                          |
| 2021         | 409,185                    | 22,332,987                    | 183.22   | 409,185                     | 18,783,913.0                          |
| 2022         | 173,549                    | 12,807,233                    | 135.51   | 173,549                     | 10,589,639.8                          |
| 2023         | 179,763                    | 12,156,426                    | 147.87   | 179,763                     | 10,093,375.6                          |
| ≥ 65 years   |                            |                               |  |                             |                                       |
| 2010         | 21,163                     | 3,165,501                     | 66.86  | 21,163                      | 2,815,037.5                           |
| 2011         | 132,496                    | 15,814,900                    | 83.78  | 132,496                     | 14,419,692.9                          |
| 2012         | 144,064                    | 17,942,729                    | 80.29  | 144,064                     | 15,199,478.0                          |
| 2013         | 157,959                    | 17,592,907                    | 89.79  | 157,959                     | 16,021,312.8                          |
| 2014         | 186,050                    | 20,216,203                    | 92.03  | 186,050                     | 18,414,508.9                          |
| 2015         | 214,710                    | 21,275,007                    | 100.92   | 214,710                     | 19,321,336.8                          |
| 2016         | 244,677                    | 23,741,977                    | 103.06   | 244,677                     | 20,377,064.4                          |
| 2017         | 245,516                    | 23,181,445                    | 105.91   | 245,516                     | 21,054,284.8                          |
| 2018         | 271,006                    | 23,997,615                    | 112.93   | 271,006                     | 21,775,016.2                          |
| 2019         | 286,389                    | 24,380,911                    | 117.46   | 286,389                     | 22,124,644.9                          |
| 2020         | 278,047                    | 26,778,027                    | 103.83   | 278,047                     | 22,823,573.9                          |
| 2021         | 314,203                    | 25,673,533                    | 122.38   | 314,203                     | 23,266,367.8                          |
| 2022         | 328,154                    | 25,494,918                    | 128.71   | 328,154                     | 23,106,692.7                          |
| 2023         | 383,057                    | 25,492,985                    | 150.26   | 383,057                     | 23,183,631.8                          |
| Incident dru | g abuse or depende         | ence                          |  |                             |                                       |
| 0-17 years   |                            |                               |  |                             |                                       |
| 2010         | 15,746                     | 7,526,325                     | 20.92  | 15,746                      | 6,010,647.8                           |
| 2011         | 15,446                     | 7,121,038                     | 21.69  | 15,446                      | 5,697,853.0                           |
| 2012         | 15,093                     | 7,235,372                     | 20.86  | 15,093                      | 5,410,923.7                           |
| 2013         | 13,865                     | 6,558,572                     | 21.14  | 13,865                      | 5,263,151.3                           |
| 2014         | 15,267                     | 7,156,803                     | 21.33  | 15,267                      | 5,760,732.3                           |
|              |                            |                               |  |                             |                                       |

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Age Group and Year

| Age Group   | and fear        |                               |  |                 |                    |
|-------------|-----------------|-------------------------------|--|-----------------|--------------------|
|             | Members with an |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|             | Index Date      | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2015        | 35,079          | 13,706,911                    | 25.59                                      | 35,079          | 11,363,189.4       |
| 2016        | 46,891          | 33,829,556                    | 13.86                                      | 46,891          | 17,140,732.0       |
| 2017        | 74,344          | 30,671,360                    | 24.24                                      | 74,344          | 25,749,573.8       |
| 2018        | 85,036          | 33,529,505                    | 25.36                                      | 85,036          | 28,163,500.7       |
| 2019        | 89,501          | 32,706,293                    | 27.37                                      | 89,501          | 27,562,692.3       |
| 2020        | 77,782          | 38,028,491                    | 20.45                                      | 77,782          | 30,223,726.3       |
| 2021        | 87,878          | 37,505,414                    | 23.43                                      | 87,878          | 33,626,358.4       |
| 2022        | 13,943          | 6,873,111                     | 20.29                                      | 13,943          | 5,658,954.5        |
| 2023        | 10,204          | 5,843,806                     | 17.46                                      | 10,204          | 4,779,361.3        |
| 18-43 years |                 |                               |  |                 |                    |
| 2010        | 61,882          | 12,132,357                    | 51.01                                      | 61,882          | 9,253,917.1        |
| 2011        | 124,885         | 12,681,667                    | 98.48                                      | 124,885         | 9,739,825.5        |
| 2012        | 135,118         | 13,542,672                    | 99.77                                      | 135,118         | 9,663,064.5        |
| 2013        | 140,012         | 12,432,191                    | 112.62                                     | 140,012         | 9,578,595.4        |
| 2014        | 152,846         | 13,425,620                    | 113.85                                     | 152,846         | 10,303,111.9       |
| 2015        | 225,544         | 16,867,460                    | 133.72                                     | 225,544         | 12,829,322.4       |
| 2016        | 293,346         | 29,365,283                    | 99.9                                       | 293,346         | 15,061,681.2       |
| 2017        | 499,893         | 28,691,205                    | 174.23                                     | 499,893         | 21,749,797.2       |
| 2018        | 573,788         | 30,729,844                    | 186.72                                     | 573,788         | 23,387,112.4       |
| 2019        | 574,944         | 30,329,765                    | 189.56                                     | 574,944         | 23,179,773.3       |
| 2020        | 580,733         | 34,670,594                    | 167.5                                      | 580,733         | 24,351,649.1       |
| 2021        | 711,312         | 35,268,754                    | 201.68                                     | 711,312         | 28,834,478.9       |
| 2022        | 138,759         | 13,563,980                    | 102.3                                      | 138,759         | 10,518,938.7       |
| 2023        | 120,243         | 12,736,045                    | 94.41                                      | 120,243         | 9,935,831.3        |
| 44-64 years |                 |                               |  |                 |                    |
| 2010        | 43,969          | 10,464,438                    | 42.02                                      | 43,969          | 8,638,921.8        |
| 2011        | 166,691         | 13,089,451                    | 127.35                                     | 166,691         | 10,873,279.9       |
| 2012        | 181,398         | 13,708,670                    | 132.32                                     | 181,398         | 10,727,149.7       |
| 2013        | 194,361         | 12,914,896                    | 150.49                                     | 194,361         | 10,752,480.4       |
| 2014        | 218,925         | 13,985,185                    | 156.54                                     | 218,925         | 11,522,131.0       |
| 2015        | 264,130         | 15,585,961                    | 169.47                                     | 264,130         | 12,844,416.6       |
| 2016        | 266,476         | 22,521,076                    | 118.32                                     | 266,476         | 14,075,882.9       |
| 2017        | 380,275         | 21,396,990                    | 177.72                                     | 380,275         | 17,526,396.4       |
| 2018        | 427,133         | 22,154,514                    | 192.8                                      | 427,133         | 18,194,950.5       |
| 2019        | 423,937         | 21,728,137                    | 195.11                                     | 423,937         | 17,873,003.8       |
| 2020        | 383,046         | 23,409,883                    | 163.63                                     | 383,046         | 17,819,457.3       |

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|              | Members with an      |                               | Number of Members with an Index            | Total Number of     | Eligible Member    |
|--------------|----------------------|-------------------------------|--|---------------------|--------------------|
|              | Index Date           | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates         | Years <sup>1</sup> |
| 2021         | 429,013              | 22,457,193                    | 191.04                                     | 429,013             | 18,867,322.3       |
| 2022         | 170,816              | 12,852,720                    | 132.9                                      | 170,816             | 10,625,109.9       |
| 2023         | 161,110              | 12,207,644                    | 131.97                                     | 161,110             | 10,143,679.5       |
| ≥ 65 years   |                      |                               |  |                     |                    |
| 2010         | 12,908               | 3,174,358                     | 40.66                                      | 12,908              | 2,829,450.6        |
| 2011         | 90,169               | 15,859,407                    | 56.86                                      | 90,169              | 14,489,322.1       |
| 2012         | 102,579              | 17,998,021                    | 56.99                                      | 102,579             | 15,273,645.5       |
| 2013         | 113,247              | 17,643,790                    | 64.19                                      | 113,247             | 16,100,066.5       |
| 2014         | 140,351              | 20,276,153                    | 69.22                                      | 140,351             | 18,504,087.0       |
| 2015         | 163,328              | 21,336,980                    | 76.55                                      | 163,328             | 19,406,711.2       |
| 2016         | 142,130              | 23,849,170                    | 59.6                                       | 142,130             | 20,518,389.4       |
| 2017         | 163,500              | 23,283,429                    | 70.22                                      | 163,500             | 21,215,514.3       |
| 2018         | 190,038              | 24,103,084                    | 78.84                                      | 190,038             | 21,930,817.5       |
| 2019         | 206,911              | 24,491,393                    | 84.48                                      | 206,911             | 22,284,151.2       |
| 2020         | 190,239              | 26,907,215                    | 70.7                                       | 190,239             | 22,990,918.3       |
| 2021         | 216,430              | 25,797,329                    | 83.9                                       | 216,430             | 23,449,315.8       |
| 2022         | 226,346              | 25,625,445                    | 88.33                                      | 226,346             | 23,296,421.2       |
| 2023         | 240,120              | 25,641,187                    | 93.65                                      | 240,120             | 23,413,226.8       |
| Incident his | tory of Coronary Art | erial Bypass Graft (C         | CABG) or Percutaneous Transluminal Co      | oronary Angioplasty | (PTCA)             |
| 0-17 years   |                      |                               |  |                     |                    |
| 2010         | 119                  | 7,534,716                     | 0.16                                       | 119                 | 6,025,522.9        |
| 2011         | 101                  | 7,129,652                     | 0.14                                       | 101                 | 5,712,826.5        |
| 2012         | 127                  | 7,245,174                     | 0.18                                       | 127                 | 5,425,886.5        |
| 2013         | 113                  | 6,567,218                     | 0.17                                       | 113                 | 5,277,624.5        |
| 2014         | 116                  | 7,165,821                     | 0.16                                       | 116                 | 5,776,112.5        |
| 2015         | 283                  | 13,725,921                    | 0.21                                       | 283                 | 11,400,584.1       |
| 2016         | 429                  | 33,896,878                    | 0.13                                       | 429                 | 17,195,818.6       |
| 2017         | 602                  | 30,707,637                    | 0.2  | 602                 | 25,824,318.8       |
| 2018         | 783                  | 33,570,495                    | 0.23                                       | 783                 | 28,248,407.9       |
| 2019         | 1,195                | 32,746,730                    | 0.36                                       | 1,195               | 27,649,934.5       |
| 2020         | 923                  | 38,077,937                    | 0.24                                       | 923                 | 30,314,256.9       |
| 2021         | 762                  | 37,539,523                    | 0.2  | 762                 | 33,710,165.2       |
| 2022         | 196                  | 6,880,169                     | 0.28                                       | 196                 | 5,672,233.2        |
| 2023         | 173                  | 5,849,870                     | 0.3  | 173                 | 4,789,960.1        |
| 18-43 years  |                      |                               |  |                     |                    |
| 2010         | 3,706                | 12,170,271                    | 3.05                                       | 3,706               | 9,320,642.3        |
|              |                      |                               |  |                     |                    |

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Age Group and Year

| Age Gloup   |                            |                               |   |                             |                                       |
|-------------|----------------------------|-------------------------------|---|-----------------------------|---------------------------------------|
|             | Members with an Index Date | Eligible Members <sup>1</sup> | Number of Members with an Index  Date per 10K Eligible Members <sup>1</sup> | Total Number of Index Dates | Eligible Member<br>Years <sup>1</sup> |
| 2011        | 8,009                      | 12,772,045                    | 6.27  | 8,009                       | 9,899,715.0                           |
| 2012        | 7,577                      | 13,655,864                    | 5.55  | 7,577                       | 9,844,439.7                           |
| 2013        | 7,364                      | 12,541,737                    | 5.87  | 7,364                       | 9,770,914.9                           |
| 2014        | 7,371                      | 13,543,592                    | 5.44  | 7,371                       | 10,509,352.5                          |
| 2015        | 8,724                      | 17,046,934                    | 5.12  | 8,724                       | 13,135,053.1                          |
| 2016        | 10,537                     | 29,933,490                    | 3.52  | 10,537                      | 15,496,761.8                          |
| 2017        | 12,866                     | 29,091,517                    | 4.42  | 12,866                      | 22,440,758.7                          |
| 2018        | 14,201                     | 31,192,209                    | 4.55  | 14,201                      | 24,186,986.4                          |
| 2019        | 15,367                     | 30,816,845                    | 4.99  | 15,367                      | 24,006,750.8                          |
| 2020        | 14,469                     | 35,303,984                    | 4.1   | 14,469                      | 25,243,981.7                          |
| 2021        | 12,626                     | 35,782,680                    | 3.53  | 12,626                      | 29,879,272.6                          |
| 2022        | 5,531                      | 13,671,469                    | 4.05  | 5,531                       | 10,707,491.8                          |
| 2023        | 4,981                      | 12,831,459                    | 3.88  | 4,981                       | 10,094,962.0                          |
| 44-64 years |                            |                               |   |                             |                                       |
| 2010        | 66,378                     | 10,432,808                    | 63.62   | 66,378                      | 8,592,757.3                           |
| 2011        | 145,457                    | 13,072,289                    | 111.27  | 145,457                     | 10,884,682.6                          |
| 2012        | 136,941                    | 13,695,041                    | 99.99   | 136,941                     | 10,760,423.8                          |
| 2013        | 135,784                    | 12,915,911                    | 105.13  | 135,784                     | 10,807,837.5                          |
| 2014        | 142,794                    | 13,994,134                    | 102.04  | 142,794                     | 11,594,826.4                          |
| 2015        | 164,287                    | 15,624,388                    | 105.15  | 164,287                     | 12,974,295.4                          |
| 2016        | 188,156                    | 22,618,257                    | 83.19   | 188,156                     | 14,192,183.1                          |
| 2017        | 203,861                    | 21,429,945                    | 95.13   | 203,861                     | 17,706,145.1                          |
| 2018        | 210,277                    | 22,222,274                    | 94.62   | 210,277                     | 18,436,843.0                          |
| 2019        | 206,123                    | 21,816,031                    | 94.48   | 206,123                     | 18,135,335.9                          |
| 2020        | 178,757                    | 23,549,336                    | 75.91   | 178,757                     | 18,103,228.8                          |
| 2021        | 182,617                    | 22,584,284                    | 80.86   | 182,617                     | 19,185,466.9                          |
| 2022        | 112,618                    | 12,848,682                    | 87.65   | 112,618                     | 10,666,994.1                          |
| 2023        | 104,519                    | 12,206,912                    | 85.62   | 104,519                     | 10,185,637.0                          |
| ≥ 65 years  |                            |                               |   |                             |                                       |
| 2010        | 102,904                    | 3,097,750                     | 332.19  | 102,904                     | 2,683,603.1                           |
| 2011        | 708,624                    | 15,365,920                    | 461.17  | 708,624                     | 13,552,029.9                          |
| 2012        | 700,230                    | 17,349,121                    | 403.61  | 700,230                     | 14,242,748.5                          |
| 2013        | 720,863                    | 17,050,172                    | 422.79  | 720,863                     | 15,040,087.2                          |
| 2014        | 820,852                    | 19,606,305                    | 418.67  | 820,852                     | 17,312,940.2                          |
| 2015        | 917,695                    | 20,629,324                    | 444.85  | 917,695                     | 18,181,802.2                          |
| 2016        | 971,628                    | 22,894,730                    | 424.39  | 971,628                     | 19,079,929.1                          |

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Age Group and Year

| Age Group    | and Year             |                               |  |                 |                    |
|--------------|----------------------|-------------------------------|--|-----------------|--------------------|
|              | Members with an      |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|              | Index Date           | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2017         | 926,436              | 22,287,584                    | 415.67                                     | 926,436         | 19,674,044.9       |
| 2018         | 928,377              | 23,066,519                    | 402.48                                     | 928,377         | 20,367,534.9       |
| 2019         | 960,755              | 23,426,013                    | 410.12                                     | 960,755         | 20,698,827.6       |
| 2020         | 851,519              | 25,786,699                    | 330.22                                     | 851,519         | 21,441,339.7       |
| 2021         | 926,479              | 24,807,132                    | 373.47                                     | 926,479         | 21,969,745.0       |
| 2022         | 873,751              | 24,620,864                    | 354.88                                     | 873,751         | 21,830,540.5       |
| 2023         | 854,323              | 24,654,870                    | 346.51                                     | 854,323         | 21,981,199.2       |
| Incident his | tory of sudden cardi | ac arrest                     |  |                 |                    |
| 0-17 years   |                      |                               |  |                 |                    |
| 2010         | 474                  | 7,534,577                     | 0.63                                       | 474             | 6,025,342.5        |
| 2011         | 456                  | 7,129,526                     | 0.64                                       | 456             | 5,712,625.0        |
| 2012         | 465                  | 7,245,026                     | 0.64                                       | 465             | 5,425,703.9        |
| 2013         | 490                  | 6,567,083                     | 0.75                                       | 490             | 5,277,409.1        |
| 2014         | 461                  | 7,165,685                     | 0.64                                       | 461             | 5,775,902.0        |
| 2015         | 1,416                | 13,725,509                    | 1.03                                       | 1,416           | 11,399,921.4       |
| 2016         | 2,549                | 33,894,869                    | 0.75                                       | 2,549           | 17,194,589.3       |
| 2017         | 4,104                | 30,706,311                    | 1.34                                       | 4,104           | 25,822,196.7       |
| 2018         | 4,527                | 33,568,904                    | 1.35                                       | 4,527           | 28,245,904.5       |
| 2019         | 4,647                | 32,745,282                    | 1.42                                       | 4,647           | 27,647,705.9       |
| 2020         | 4,932                | 38,076,227                    | 1.3  | 4,932           | 30,312,120.3       |
| 2021         | 6,174                | 37,538,109                    | 1.64                                       | 6,174           | 33,707,272.7       |
| 2022         | 626                  | 6,879,927                     | 0.91                                       | 626             | 5,671,899.4        |
| 2023         | 481                  | 5,849,667                     | 0.82                                       | 481             | 4,789,670.9        |
| 18-43 years  |                      |                               |  |                 |                    |
| 2010         | 2,125                | 12,172,830                    | 1.75                                       | 2,125           | 9,324,283.0        |
| 2011         | 6,569                | 12,777,549                    | 5.14                                       | 6,569           | 9,907,310.2        |
| 2012         | 6,896                | 13,662,093                    | 5.05                                       | 6,896           | 9,852,271.0        |
| 2013         | 7,090                | 12,547,278                    | 5.65                                       | 7,090           | 9,778,217.6        |
| 2014         | 7,092                | 13,549,206                    | 5.23                                       | 7,092           | 10,516,558.8       |
| 2015         | 9,491                | 17,052,218                    | 5.57                                       | 9,491           | 13,141,807.8       |
| 2016         | 12,772               | 29,940,440                    | 4.27                                       | 12,772          | 15,504,251.9       |
| 2017         | 20,339               | 29,097,735                    | 6.99                                       | 20,339          | 22,447,478.8       |
| 2018         | 21,347               | 31,198,234                    | 6.84                                       | 21,347          | 24,193,459.6       |
| 2019         | 20,591               | 30,823,143                    | 6.68                                       | 20,591          | 24,014,469.3       |
| 2020         | 25,324               | 35,310,000                    | 7.17                                       | 25,324          | 25,251,984.8       |
| 2021         | 30,841               | 35,786,669                    | 8.62                                       | 30,841          | 29,882,246.9       |
|              |                      |                               |  |                 |                    |

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| Age Group a | iliu i Cai      |                               |  |                 |                    |
|-------------|-----------------|-------------------------------|--|-----------------|--------------------|
|             | Members with an |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|             | Index Date      | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2022        | 6,785           | 13,674,611                    | 4.96                                       | 6,785           | 10,711,184.1       |
| 2023        | 5,795           | 12,834,165                    | 4.52                                       | 5,795           | 10,098,130.1       |
| 44-64 years |                 |                               |  |                 |                    |
| 2010        | 8,839           | 10,485,043                    | 8.43                                       | 8,839           | 8,683,687.0        |
| 2011        | 34,677          | 13,195,284                    | 26.28                                      | 34,677          | 11,086,821.6       |
| 2012        | 36,371          | 13,842,142                    | 26.28                                      | 36,371          | 10,969,946.7       |
| 2013        | 37,710          | 13,049,003                    | 28.9                                       | 37,710          | 11,016,418.2       |
| 2014        | 40,397          | 14,134,584                    | 28.58                                      | 40,397          | 11,811,455.8       |
| 2015        | 46,227          | 15,771,889                    | 29.31                                      | 46,227          | 13,201,707.4       |
| 2016        | 52,495          | 22,855,123                    | 22.97                                      | 52,495          | 14,461,692.4       |
| 2017        | 69,126          | 21,638,777                    | 31.95                                      | 69,126          | 18,011,973.2       |
| 2018        | 69,011          | 22,435,957                    | 30.76                                      | 69,011          | 18,750,229.5       |
| 2019        | 65,716          | 22,028,999                    | 29.83                                      | 65,716          | 18,445,046.9       |
| 2020        | 75,706          | 23,774,251                    | 31.84                                      | 75,706          | 18,391,936.3       |
| 2021        | 79,411          | 22,760,518                    | 34.89                                      | 79,411          | 19,449,331.2       |
| 2022        | 34,907          | 12,987,798                    | 26.88                                      | 34,907          | 10,853,700.4       |
| 2023        | 30,180          | 12,334,562                    | 24.47                                      | 30,180          | 10,357,017.1       |
| ≥ 65 years  |                 |                               |  |                 |                    |
| 2010        | 14,574          | 3,177,436                     | 45.87                                      | 14,574          | 2,838,548.0        |
| 2011        | 120,038         | 15,880,175                    | 75.59                                      | 120,038         | 14,552,498.6       |
| 2012        | 125,648         | 18,029,527                    | 69.69                                      | 125,648         | 15,350,385.7       |
| 2013        | 134,738         | 17,676,885                    | 76.22                                      | 134,738         | 16,190,165.9       |
| 2014        | 151,532         | 20,316,341                    | 74.59                                      | 151,532         | 18,614,189.1       |
| 2015        | 157,265         | 21,388,216                    | 73.53                                      | 157,265         | 19,544,893.6       |
| 2016        | 160,418         | 23,893,412                    | 67.14                                      | 160,418         | 20,650,285.7       |
| 2017        | 172,955         | 23,331,074                    | 74.13                                      | 172,955         | 21,339,226.2       |
| 2018        | 167,729         | 24,167,651                    | 69.4                                       | 167,729         | 22,090,085.3       |
| 2019        | 166,734         | 24,572,745                    | 67.85                                      | 166,734         | 22,475,863.6       |
| 2020        | 187,231         | 27,014,981                    | 69.31                                      | 187,231         | 23,191,749.2       |
| 2021        | 189,487         | 25,897,326                    | 73.17                                      | 189,487         | 23,658,041.6       |
| 2022        | 173,193         | 25,733,087                    | 67.3                                       | 173,193         | 23,525,644.6       |
| 2023        | 158,544         | 25,760,289                    | 61.55                                      | 158,544         | 23,668,275.9       |
|             |                 |                               |  |                 |                    |

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|             | Members with an    |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|-------------|--------------------|-------------------------------|--|-----------------|--------------------|
|             | Index Date         | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| Prevalent C | apture of Confound | ing Conditions                |  |                 |                    |
| Prevalent o | besity             |                               |  |                 |                    |
| 0-17 years  |                    |                               |  |                 |                    |
| 2010        | 71,287             | 7,534,754                     | 94.61                                      | 103,813         | 6,025,645.8        |
| 2011        | 79,985             | 7,129,694                     | 112.19                                     | 118,273         | 5,712,931.6        |
| 2012        | 85,204             | 7,245,232                     | 117.6                                      | 125,734         | 5,426,017.0        |
| 2013        | 94,687             | 6,567,262                     | 144.18                                     | 139,825         | 5,277,750.4        |
| 2014        | 121,659            | 7,165,877                     | 169.78                                     | 175,688         | 5,776,245.6        |
| 2015        | 358,841            | 13,726,018                    | 261.43                                     | 521,266         | 11,400,863.7       |
| 2016        | 636,550            | 33,897,316                    | 187.79                                     | 923,633         | 17,196,296.2       |
| 2017        | 1,306,240          | 30,707,816                    | 425.38                                     | 1,959,272       | 25,824,993.3       |
| 2018        | 1,808,401          | 33,570,719                    | 538.68                                     | 2,632,766       | 28,249,185.4       |
| 2019        | 1,993,864          | 32,747,052                    | 608.87                                     | 2,871,428       | 27,650,972.5       |
| 2020        | 2,260,410          | 38,078,456                    | 593.62                                     | 3,085,137       | 30,315,689.2       |
| 2021        | 2,896,277          | 37,539,743                    | 771.52                                     | 4,088,456       | 33,711,087.2       |
| 2022        | 381,041            | 6,880,258                     | 553.82                                     | 541,770         | 5,672,454.1        |
| 2023        | 300,401            | 5,849,968                     | 513.51                                     | 425,675         | 4,790,177.2        |
| 18-43 years |                    |                               |  |                 |                    |
| 2010        | 333,136            | 12,173,285                    | 273.66                                     | 654,314         | 9,325,316.6        |
| 2011        | 499,495            | 12,778,747                    | 390.88                                     | 1,187,730       | 9,910,160.2        |
| 2012        | 557,236            | 13,663,679                    | 407.82                                     | 1,339,661       | 9,855,394.0        |
| 2013        | 620,606            | 12,548,735                    | 494.56                                     | 1,514,312       | 9,781,599.9        |
| 2014        | 740,704            | 13,550,743                    | 546.62                                     | 1,808,207       | 10,519,998.5       |
| 2015        | 1,058,842          | 17,054,339                    | 620.86                                     | 2,527,907       | 13,146,331.2       |
| 2016        | 1,396,955          | 29,947,337                    | 466.47                                     | 3,423,656       | 15,510,568.8       |
| 2017        | 2,253,056          | 29,102,496                    | 774.18                                     | 5,382,109       | 22,458,005.9       |
| 2018        | 2,646,241          | 31,203,689                    | 848.05                                     | 6,382,458       | 24,205,381.2       |
| 2019        | 2,714,709          | 30,828,516                    | 880.58                                     | 6,603,524       | 24,025,805.4       |
| 2020        | 2,595,664          | 35,317,635                    | 734.95                                     | 6,251,798       | 25,264,306.3       |
| 2021        | 3,189,538          | 35,792,472                    | 891.12                                     | 7,773,845       | 29,897,020.7       |
| 2022        | 1,452,410          | 13,677,250                    | 1,061.92                                   | 3,863,926       | 10,715,629.6       |
| 2023        | 1,505,212          | 12,836,629                    | 1,172.59                                   | 4,235,203       | 10,102,180.5       |
| 44-64 years |                    |                               |  |                 |                    |
| 2010        | 486,698            | 10,486,545                    | 464.12                                     | 996,405         | 8,687,602.8        |
| 2011        | 978,957            | 13,199,845                    | 741.64                                     | 2,635,299       | 11,099,318.1       |
| 2012        | 1,125,763          | 13,848,316                    | 812.92                                     | 3,063,149       | 10,983,579.6       |
|             |                    |                               |  |                 |                    |

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Age Group and Year

| Age Group   | and Year        |                               |  |                 |                    |
|-------------|-----------------|-------------------------------|--|-----------------|--------------------|
|             | Members with an |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|             | Index Date      | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2013        | 1,296,424       | 13,054,843                    | 993.06                                     | 3,569,328       | 11,031,025.3       |
| 2014        | 1,570,380       | 14,141,168                    | 1,110.50                                   | 4,356,151       | 11,827,365.7       |
| 2015        | 1,979,927       | 15,780,209                    | 1,254.69                                   | 5,548,345       | 13,220,385.3       |
| 2016        | 2,444,915       | 22,872,924                    | 1,068.91                                   | 7,189,434       | 14,483,960.3       |
| 2017        | 3,244,592       | 21,652,361                    | 1,498.49                                   | 9,513,107       | 18,043,032.5       |
| 2018        | 3,643,736       | 22,450,919                    | 1,622.98                                   | 10,827,580      | 18,783,426.5       |
| 2019        | 3,717,805       | 22,043,885                    | 1,686.55                                   | 11,235,482      | 18,476,127.8       |
| 2020        | 3,402,156       | 23,793,221                    | 1,429.88                                   | 10,014,804      | 18,423,560.3       |
| 2021        | 3,757,997       | 22,776,085                    | 1,649.97                                   | 11,194,216      | 19,482,348.4       |
| 2022        | 2,749,578       | 12,998,330                    | 2,115.33                                   | 8,724,208       | 10,871,911.7       |
| 2023        | 2,816,938       | 12,344,493                    | 2,281.94                                   | 9,234,801       | 10,374,291.4       |
| ≥ 65 years  |                 |                               |  |                 |                    |
| 2010        | 159,682         | 3,178,734                     | 502.34                                     | 367,843         | 2,842,923.8        |
| 2011        | 1,061,151       | 15,889,082                    | 667.85                                     | 2,666,158       | 14,583,907.1       |
| 2012        | 1,341,741       | 18,043,117                    | 743.63                                     | 3,431,808       | 15,385,005.5       |
| 2013        | 1,676,108       | 17,688,467                    | 947.57                                     | 4,339,435       | 16,227,715.5       |
| 2014        | 2,230,718       | 20,330,182                    | 1,097.24                                   | 5,879,218       | 18,657,456.9       |
| 2015        | 2,735,812       | 21,404,260                    | 1,278.16                                   | 7,444,190       | 19,592,350.2       |
| 2016        | 3,377,600       | 23,914,591                    | 1,412.36                                   | 9,781,377       | 20,701,489.0       |
| 2017        | 4,050,518       | 23,351,701                    | 1,734.57                                   | 12,257,179      | 21,399,607.8       |
| 2018        | 4,620,840       | 24,190,631                    | 1,910.18                                   | 14,578,719      | 22,152,322.6       |
| 2019        | 4,998,191       | 24,596,886                    | 2,032.04                                   | 16,414,073      | 22,537,413.6       |
| 2020        | 4,847,565       | 27,045,667                    | 1,792.36                                   | 15,228,664      | 23,254,874.1       |
| 2021        | 5,365,872       | 25,924,678                    | 2,069.79                                   | 17,718,906      | 23,722,485.0       |
| 2022        | 5,503,306       | 25,760,788                    | 2,136.31                                   | 18,265,712      | 23,590,197.4       |
| 2023        | 5,677,377       | 25,788,108                    | 2,201.55                                   | 19,125,824      | 23,733,657.1       |
| Prevalent o | verweight       |                               |  |                 |                    |
| 0-17 years  |                 |                               |  |                 |                    |
| 2010        | 33,468          | 7,534,754                     | 44.42                                      | 40,683          | 6,025,645.8        |
| 2011        | 39,587          | 7,129,694                     | 55.52                                      | 47,247          | 5,712,931.6        |
| 2012        | 46,459          | 7,245,232                     | 64.12                                      | 53,981          | 5,426,017.0        |
| 2013        | 55,973          | 6,567,262                     | 85.23                                      | 64,677          | 5,277,750.4        |
| 2014        | 77,521          | 7,165,877                     | 108.18                                     | 88,736          | 5,776,245.6        |
| 2015        | 210,660         | 13,726,018                    | 153.47                                     | 241,941         | 11,400,863.7       |
| 2016        | 356,465         | 33,897,316                    | 105.16                                     | 415,327         | 17,196,296.2       |
| 2017        | 677,266         | 30,707,816                    | 220.55                                     | 819,808         | 25,824,993.3       |

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Age Group and Year

| Age Group   | and Year        |                               |  |                 |                    |
|-------------|-----------------|-------------------------------|--|-----------------|--------------------|
|             | Members with an |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|             | Index Date      | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2018        | 848,569         | 33,570,719                    | 252.77                                     | 1,043,163       | 28,249,185.4       |
| 2019        | 920,695         | 32,747,052                    | 281.15                                     | 1,128,023       | 27,650,972.5       |
| 2020        | 939,239         | 38,078,456                    | 246.66                                     | 1,103,539       | 30,315,689.2       |
| 2021        | 1,137,735       | 37,539,743                    | 303.07                                     | 1,354,175       | 33,711,087.2       |
| 2022        | 264,054         | 6,880,258                     | 383.79                                     | 316,064         | 5,672,454.1        |
| 2023        | 223,027         | 5,849,968                     | 381.24                                     | 267,703         | 4,790,177.2        |
| 18-43 years |                 |                               |  |                 |                    |
| 2010        | 45,103          | 12,173,285                    | 37.05                                      | 63,575          | 9,325,316.6        |
| 2011        | 66,731          | 12,778,747                    | 52.22                                      | 96,102          | 9,910,160.2        |
| 2012        | 93,531          | 13,663,679                    | 68.45                                      | 135,895         | 9,855,394.0        |
| 2013        | 127,102         | 12,548,735                    | 101.29                                     | 186,787         | 9,781,599.9        |
| 2014        | 177,812         | 13,550,743                    | 131.22                                     | 265,727         | 10,519,998.5       |
| 2015        | 280,753         | 17,054,339                    | 164.62                                     | 421,720         | 13,146,331.2       |
| 2016        | 408,134         | 29,947,337                    | 136.28                                     | 638,160         | 15,510,568.8       |
| 2017        | 722,294         | 29,102,496                    | 248.19                                     | 1,130,133       | 22,458,005.9       |
| 2018        | 910,802         | 31,203,689                    | 291.89                                     | 1,455,557       | 24,205,381.2       |
| 2019        | 957,306         | 30,828,516                    | 310.53                                     | 1,540,017       | 24,025,805.4       |
| 2020        | 813,414         | 35,317,635                    | 230.31                                     | 1,264,880       | 25,264,306.3       |
| 2021        | 971,268         | 35,792,472                    | 271.36                                     | 1,514,267       | 29,897,020.7       |
| 2022        | 547,535         | 13,677,250                    | 400.33                                     | 915,229         | 10,715,629.6       |
| 2023        | 585,686         | 12,836,629                    | 456.26                                     | 983,219         | 10,102,180.5       |
| 44-64 years |                 |                               |  |                 |                    |
| 2010        | 57,929          | 10,486,545                    | 55.24                                      | 82,256          | 8,687,602.8        |
| 2011        | 111,895         | 13,199,845                    | 84.77                                      | 163,235         | 11,099,318.1       |
| 2012        | 169,126         | 13,848,316                    | 122.13                                     | 257,893         | 10,983,579.6       |
| 2013        | 243,077         | 13,054,843                    | 186.2                                      | 387,368         | 11,031,025.3       |
| 2014        | 350,268         | 14,141,168                    | 247.69                                     | 573,934         | 11,827,365.7       |
| 2015        | 520,407         | 15,780,209                    | 329.78                                     | 879,854         | 13,220,385.3       |
| 2016        | 742,178         | 22,872,924                    | 324.48                                     | 1,338,701       | 14,483,960.3       |
| 2017        | 1,118,354       | 21,652,361                    | 516.5                                      | 2,043,309       | 18,043,032.5       |
| 2018        | 1,348,770       | 22,450,919                    | 600.76                                     | 2,532,770       | 18,783,426.5       |
| 2019        | 1,401,953       | 22,043,885                    | 635.98                                     | 2,669,813       | 18,476,127.8       |
| 2020        | 1,164,166       | 23,793,221                    | 489.28                                     | 2,105,245       | 18,423,560.3       |
| 2021        | 1,277,435       | 22,776,085                    | 560.87                                     | 2,355,475       | 19,482,348.4       |
| 2022        | 998,711         | 12,998,330                    | 768.34                                     | 1,956,388       | 10,871,911.7       |
| 2023        | 1,045,301       | 12,344,493                    | 846.78                                     | 2,074,351       | 10,374,291.4       |

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Age Group and Year

| Age Group a  | allu Teal       |                               |  |                 |                    |
|--------------|-----------------|-------------------------------|--|-----------------|--------------------|
|              | Members with an |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|              | Index Date      | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| ≥ 65 years   |                 |                               |  |                 |                    |
| 2010         | 18,949          | 3,178,734                     | 59.61                                      | 27,435          | 2,842,923.8        |
| 2011         | 176,480         | 15,889,082                    | 111.07                                     | 256,367         | 14,583,907.1       |
| 2012         | 325,621         | 18,043,117                    | 180.47                                     | 561,355         | 15,385,005.5       |
| 2013         | 520,816         | 17,688,467                    | 294.44                                     | 946,297         | 16,227,715.5       |
| 2014         | 826,240         | 20,330,182                    | 406.41                                     | 1,544,141       | 18,657,456.9       |
| 2015         | 1,185,521       | 21,404,260                    | 553.87                                     | 2,294,334       | 19,592,350.2       |
| 2016         | 1,676,491       | 23,914,591                    | 701.03                                     | 3,460,840       | 20,701,489.0       |
| 2017         | 2,262,098       | 23,351,701                    | 968.71                                     | 4,876,981       | 21,399,607.8       |
| 2018         | 2,771,145       | 24,190,631                    | 1,145.54                                   | 6,197,273       | 22,152,322.6       |
| 2019         | 3,016,183       | 24,596,886                    | 1,226.25                                   | 6,964,129       | 22,537,413.6       |
| 2020         | 2,716,694       | 27,045,667                    | 1,004.48                                   | 5,751,563       | 23,254,874.1       |
| 2021         | 3,035,581       | 25,924,678                    | 1,170.92                                   | 6,745,434       | 23,722,485.0       |
| 2022         | 3,157,075       | 25,760,788                    | 1,225.54                                   | 7,170,386       | 23,590,197.4       |
| 2023         | 3,283,772       | 25,788,108                    | 1,273.37                                   | 7,534,016       | 23,733,657.1       |
| Prevalent sr | noking          |                               |  |                 |                    |
| 0-17 years   |                 |                               |  |                 |                    |
| 2010         | 13,159          | 7,534,754                     | 17.46                                      | 18,330          | 6,025,645.8        |
| 2011         | 12,630          | 7,129,694                     | 17.71                                      | 18,115          | 5,712,931.6        |
| 2012         | 12,813          | 7,245,232                     | 17.68                                      | 18,699          | 5,426,017.0        |
| 2013         | 11,590          | 6,567,262                     | 17.65                                      | 17,231          | 5,277,750.4        |
| 2014         | 13,222          | 7,165,877                     | 18.45                                      | 20,063          | 5,776,245.6        |
| 2015         | 50,004          | 13,726,018                    | 36.43                                      | 65,007          | 11,400,863.7       |
| 2016         | 155,224         | 33,897,316                    | 45.79                                      | 205,113         | 17,196,296.2       |
| 2017         | 291,993         | 30,707,816                    | 95.09                                      | 375,950         | 25,824,993.3       |
| 2018         | 365,307         | 33,570,719                    | 108.82                                     | 469,382         | 28,249,185.4       |
| 2019         | 400,921         | 32,747,052                    | 122.43                                     | 522,949         | 27,650,972.5       |
| 2020         | 328,706         | 38,078,456                    | 86.32                                      | 421,126         | 30,315,689.2       |
| 2021         | 367,545         | 37,539,743                    | 97.91                                      | 472,556         | 33,711,087.2       |
| 2022         | 56,480          | 6,880,258                     | 82.09                                      | 87,246          | 5,672,454.1        |
| 2023         | 33,184          | 5,849,968                     | 56.73                                      | 53,064          | 4,790,177.2        |
| 18-43 years  |                 |                               |  |                 |                    |
| 2010         | 401,255         | 12,173,285                    | 329.62                                     | 657,998         | 9,325,316.6        |
| 2011         | 652,418         | 12,778,747                    | 510.55                                     | 1,424,986       | 9,910,160.2        |
| 2012         | 711,712         | 13,663,679                    | 520.88                                     | 1,633,769       | 9,855,394.0        |
| 2013         | 739,357         | 12,548,735                    | 589.19                                     | 1,789,394       | 9,781,599.9        |
|              |                 |                               |  |                 |                    |

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Age Group and Year

| Age Group a | and rear        |                               |  |                 |                    |
|-------------|-----------------|-------------------------------|--|-----------------|--------------------|
|             | Members with an |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|             | Index Date      | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2014        | 838,634         | 13,550,743                    | 618.88                                     | 2,070,453       | 10,519,998.5       |
| 2015        | 1,169,330       | 17,054,339                    | 685.65                                     | 2,733,856       | 13,146,331.2       |
| 2016        | 1,650,624       | 29,947,337                    | 551.18                                     | 3,862,737       | 15,510,568.8       |
| 2017        | 2,426,223       | 29,102,496                    | 833.68                                     | 5,580,239       | 22,458,005.9       |
| 2018        | 2,691,438       | 31,203,689                    | 862.54                                     | 6,304,195       | 24,205,381.2       |
| 2019        | 2,654,867       | 30,828,516                    | 861.17                                     | 6,324,516       | 24,025,805.4       |
| 2020        | 2,426,395       | 35,317,635                    | 687.02                                     | 5,816,459       | 25,264,306.3       |
| 2021        | 2,740,825       | 35,792,472                    | 765.75                                     | 6,309,692       | 29,897,020.7       |
| 2022        | 794,093         | 13,677,250                    | 580.59                                     | 1,968,348       | 10,715,629.6       |
| 2023        | 684,197         | 12,836,629                    | 533  | 1,635,919       | 10,102,180.5       |
| 44-64 years |                 |                               |  |                 |                    |
| 2010        | 559,046         | 10,486,545                    | 533.11                                     | 1,001,128       | 8,687,602.8        |
| 2011        | 1,331,321       | 13,199,845                    | 1,008.59                                   | 3,324,573       | 11,099,318.1       |
| 2012        | 1,470,238       | 13,848,316                    | 1,061.67                                   | 3,890,607       | 10,983,579.6       |
| 2013        | 1,599,539       | 13,054,843                    | 1,225.25                                   | 4,487,353       | 11,031,025.3       |
| 2014        | 1,830,781       | 14,141,168                    | 1,294.65                                   | 5,294,050       | 11,827,365.7       |
| 2015        | 2,207,115       | 15,780,209                    | 1,398.66                                   | 6,462,823       | 13,220,385.3       |
| 2016        | 2,685,695       | 22,872,924                    | 1,174.18                                   | 8,279,137       | 14,483,960.3       |
| 2017        | 3,392,123       | 21,652,361                    | 1,566.63                                   | 10,398,454      | 18,043,032.5       |
| 2018        | 3,658,514       | 22,450,919                    | 1,629.56                                   | 11,416,852      | 18,783,426.5       |
| 2019        | 3,642,702       | 22,043,885                    | 1,652.48                                   | 11,639,856      | 18,476,127.8       |
| 2020        | 3,254,635       | 23,793,221                    | 1,367.88                                   | 10,143,479      | 18,423,560.3       |
| 2021        | 3,387,220       | 22,776,085                    | 1,487.18                                   | 10,232,578      | 19,482,348.4       |
| 2022        | 1,901,393       | 12,998,330                    | 1,462.80                                   | 6,151,481       | 10,871,911.7       |
| 2023        | 1,800,804       | 12,344,493                    | 1,458.79                                   | 5,755,179       | 10,374,291.4       |
| ≥ 65 years  |                 |                               |  |                 |                    |
| 2010        | 235,520         | 3,178,734                     | 740.92                                     | 441,589         | 2,842,923.8        |
| 2011        | 1,660,533       | 15,889,082                    | 1,045.08                                   | 3,486,123       | 14,583,907.1       |
| 2012        | 2,008,457       | 18,043,117                    | 1,113.14                                   | 4,359,018       | 15,385,005.5       |
| 2013        | 2,418,645       | 17,688,467                    | 1,367.36                                   | 5,405,707       | 16,227,715.5       |
| 2014        | 3,169,524       | 20,330,182                    | 1,559.02                                   | 7,285,787       | 18,657,456.9       |
| 2015        | 3,732,498       | 21,404,260                    | 1,743.81                                   | 9,024,531       | 19,592,350.2       |
| 2016        | 4,442,651       | 23,914,591                    | 1,857.72                                   | 12,087,433      | 20,701,489.0       |
| 2017        | 4,894,397       | 23,351,701                    | 2,095.95                                   | 13,941,571      | 21,399,607.8       |
| 2018        | 5,247,657       | 24,190,631                    | 2,169.29                                   | 15,448,313      | 22,152,322.6       |
| 2019        | 5,574,624       | 24,596,886                    | 2,266.39                                   | 17,310,886      | 22,537,413.6       |

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Age Group and Year

| Age Group a  |                     |                               |  |                 |                    |
|--------------|---------------------|-------------------------------|--|-----------------|--------------------|
|              | Members with an     |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|              | Index Date          | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2020         | 5,215,003           | 27,045,667                    | 1,928.22                                   | 15,897,903      | 23,254,874.1       |
| 2021         | 5,643,111           | 25,924,678                    | 2,176.73                                   | 17,518,838      | 23,722,485.0       |
| 2022         | 5,643,202           | 25,760,788                    | 2,190.62                                   | 17,652,848      | 23,590,197.4       |
| 2023         | 5,750,253           | 25,788,108                    | 2,229.81                                   | 18,314,911      | 23,733,657.1       |
| Prevalent al | cohol abuse or depe | endence                       |  |                 |                    |
| 0-17 years   |                     |                               |  |                 |                    |
| 2010         | 9,400               | 7,534,754                     | 12.48                                      | 36,507          | 6,025,645.8        |
| 2011         | 8,919               | 7,129,694                     | 12.51                                      | 36,849          | 5,712,931.6        |
| 2012         | 8,414               | 7,245,232                     | 11.61                                      | 33,251          | 5,426,017.0        |
| 2013         | 7,505               | 6,567,262                     | 11.43                                      | 32,934          | 5,277,750.4        |
| 2014         | 7,822               | 7,165,877                     | 10.92                                      | 32,515          | 5,776,245.6        |
| 2015         | 17,613              | 13,726,018                    | 12.83                                      | 80,323          | 11,400,863.7       |
| 2016         | 28,974              | 33,897,316                    | 8.55                                       | 153,544         | 17,196,296.2       |
| 2017         | 48,288              | 30,707,816                    | 15.72                                      | 277,822         | 25,824,993.3       |
| 2018         | 52,854              | 33,570,719                    | 15.74                                      | 313,747         | 28,249,185.4       |
| 2019         | 54,452              | 32,747,052                    | 16.63                                      | 312,316         | 27,650,972.5       |
| 2020         | 47,460              | 38,078,456                    | 12.46                                      | 289,982         | 30,315,689.2       |
| 2021         | 47,609              | 37,539,743                    | 12.68                                      | 269,625         | 33,711,087.2       |
| 2022         | 8,352               | 6,880,258                     | 12.14                                      | 37,791          | 5,672,454.1        |
| 2023         | 7,929               | 5,849,968                     | 13.55                                      | 31,804          | 4,790,177.2        |
| 18-43 years  |                     |                               |  |                 |                    |
| 2010         | 82,474              | 12,173,285                    | 67.75                                      | 349,965         | 9,325,316.6        |
| 2011         | 138,097             | 12,778,747                    | 108.07                                     | 666,015         | 9,910,160.2        |
| 2012         | 145,474             | 13,663,679                    | 106.47                                     | 714,514         | 9,855,394.0        |
| 2013         | 148,455             | 12,548,735                    | 118.3                                      | 753,287         | 9,781,599.9        |
| 2014         | 157,586             | 13,550,743                    | 116.29                                     | 831,075         | 10,519,998.5       |
| 2015         | 225,906             | 17,054,339                    | 132.46                                     | 1,213,289       | 13,146,331.2       |
| 2016         | 329,427             | 29,947,337                    | 110  | 2,196,125       | 15,510,568.8       |
| 2017         | 531,627             | 29,102,496                    | 182.67                                     | 3,879,458       | 22,458,005.9       |
| 2018         | 605,271             | 31,203,689                    | 193.97                                     | 4,720,718       | 24,205,381.2       |
| 2019         | 619,804             | 30,828,516                    | 201.05                                     | 5,140,855       | 24,025,805.4       |
| 2020         | 619,783             | 35,317,635                    | 175.49                                     | 5,506,641       | 25,264,306.3       |
| 2021         | 738,308             | 35,792,472                    | 206.27                                     | 6,800,932       | 29,897,020.7       |
| 2022         | 184,132             | 13,677,250                    | 134.63                                     | 1,151,490       | 10,715,629.6       |
| 2023         | 182,982             | 12,836,629                    | 142.55                                     | 1,133,934       | 10,102,180.5       |
| 44-64 years  |                     |                               |  |                 |                    |

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Age Group and Year

| Age Group a  | allu Teal           |                               |  |                 |                    |
|--------------|---------------------|-------------------------------|--|-----------------|--------------------|
|              | Members with an     |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|              | Index Date          | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2010         | 93,368              | 10,486,545                    | 89.04                                      | 392,331         | 8,687,602.8        |
| 2011         | 259,213             | 13,199,845                    | 196.38                                     | 1,336,423       | 11,099,318.1       |
| 2012         | 275,256             | 13,848,316                    | 198.76                                     | 1,457,414       | 10,983,579.6       |
| 2013         | 289,220             | 13,054,843                    | 221.54                                     | 1,564,109       | 11,031,025.3       |
| 2014         | 310,821             | 14,141,168                    | 219.8                                      | 1,680,892       | 11,827,365.7       |
| 2015         | 392,047             | 15,780,209                    | 248.44                                     | 2,168,709       | 13,220,385.3       |
| 2016         | 483,585             | 22,872,924                    | 211.42                                     | 3,085,685       | 14,483,960.3       |
| 2017         | 666,766             | 21,652,361                    | 307.94                                     | 4,909,618       | 18,043,032.5       |
| 2018         | 735,008             | 22,450,919                    | 327.38                                     | 5,709,920       | 18,783,426.5       |
| 2019         | 737,106             | 22,043,885                    | 334.38                                     | 6,028,746       | 18,476,127.8       |
| 2020         | 704,851             | 23,793,221                    | 296.24                                     | 6,049,421       | 18,423,560.3       |
| 2021         | 757,932             | 22,776,085                    | 332.78                                     | 6,688,321       | 19,482,348.4       |
| 2022         | 316,625             | 12,998,330                    | 243.59                                     | 1,801,939       | 10,871,911.7       |
| 2023         | 320,460             | 12,344,493                    | 259.6                                      | 1,721,020       | 10,374,291.4       |
| ≥ 65 years   |                     |                               |  |                 |                    |
| 2010         | 31,095              | 3,178,734                     | 97.82                                      | 85,308          | 2,842,923.8        |
| 2011         | 187,636             | 15,889,082                    | 118.09                                     | 698,650         | 14,583,907.1       |
| 2012         | 207,196             | 18,043,117                    | 114.83                                     | 779,750         | 15,385,005.5       |
| 2013         | 229,717             | 17,688,467                    | 129.87                                     | 867,795         | 16,227,715.5       |
| 2014         | 271,897             | 20,330,182                    | 133.74                                     | 1,032,496       | 18,657,456.9       |
| 2015         | 312,084             | 21,404,260                    | 145.8                                      | 1,172,976       | 19,592,350.2       |
| 2016         | 357,488             | 23,914,591                    | 149.49                                     | 1,386,540       | 20,701,489.0       |
| 2017         | 377,115             | 23,351,701                    | 161.49                                     | 1,528,964       | 21,399,607.8       |
| 2018         | 422,109             | 24,190,631                    | 174.49                                     | 1,733,985       | 22,152,322.6       |
| 2019         | 457,236             | 24,596,886                    | 185.89                                     | 1,936,121       | 22,537,413.6       |
| 2020         | 462,416             | 27,045,667                    | 170.98                                     | 2,001,365       | 23,254,874.1       |
| 2021         | 515,392             | 25,924,678                    | 198.8                                      | 2,220,613       | 23,722,485.0       |
| 2022         | 543,336             | 25,760,788                    | 210.92                                     | 2,228,401       | 23,590,197.4       |
| 2023         | 623,548             | 25,788,108                    | 241.8                                      | 2,434,874       | 23,733,657.1       |
| Prevalent di | rug abuse or depend | lence                         |  |                 |                    |
| 0-17 years   |                     |                               |  |                 |                    |
| 2010         | 19,227              | 7,534,754                     | 25.52                                      | 77,280          | 6,025,645.8        |
| 2011         | 19,151              | 7,129,694                     | 26.86                                      | 85,489          | 5,712,931.6        |
| 2012         | 18,857              | 7,245,232                     | 26.03                                      | 84,185          | 5,426,017.0        |
| 2013         | 17,794              | 6,567,262                     | 27.1                                       | 81,935          | 5,277,750.4        |
| 2014         | 19,309              | 7,165,877                     | 26.95                                      | 83,481          | 5,776,245.6        |
|              |                     |                               |  |                 |                    |

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Age Group and Year

| Age Group   | anu rear        |                               |  |                 |                    |
|-------------|-----------------|-------------------------------|--|-----------------|--------------------|
|             | Members with an |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|             | Index Date      | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2015        | 43,562          | 13,726,018                    | 31.74                                      | 189,490         | 11,400,863.7       |
| 2016        | 58,867          | 33,897,316                    | 17.37                                      | 293,801         | 17,196,296.2       |
| 2017        | 90,701          | 30,707,816                    | 29.54                                      | 426,610         | 25,824,993.3       |
| 2018        | 103,883         | 33,570,719                    | 30.94                                      | 480,404         | 28,249,185.4       |
| 2019        | 108,406         | 32,747,052                    | 33.1                                       | 474,099         | 27,650,972.5       |
| 2020        | 97,677          | 38,078,456                    | 25.65                                      | 431,506         | 30,315,689.2       |
| 2021        | 104,921         | 37,539,743                    | 27.95                                      | 406,819         | 33,711,087.2       |
| 2022        | 17,310          | 6,880,258                     | 25.16                                      | 65,942          | 5,672,454.1        |
| 2023        | 13,086          | 5,849,968                     | 22.37                                      | 46,405          | 4,790,177.2        |
| 18-43 years |                 |                               |  |                 |                    |
| 2010        | 80,608          | 12,173,285                    | 66.22                                      | 255,338         | 9,325,316.6        |
| 2011        | 186,495         | 12,778,747                    | 145.94                                     | 774,235         | 9,910,160.2        |
| 2012        | 206,620         | 13,663,679                    | 151.22                                     | 906,708         | 9,855,394.0        |
| 2013        | 217,063         | 12,548,735                    | 172.98                                     | 1,013,307       | 9,781,599.9        |
| 2014        | 234,926         | 13,550,743                    | 173.37                                     | 1,098,302       | 10,519,998.5       |
| 2015        | 336,306         | 17,054,339                    | 197.2                                      | 1,355,740       | 13,146,331.2       |
| 2016        | 436,067         | 29,947,337                    | 145.61                                     | 2,071,096       | 15,510,568.8       |
| 2017        | 739,633         | 29,102,496                    | 254.15                                     | 3,761,582       | 22,458,005.9       |
| 2018        | 855,347         | 31,203,689                    | 274.12                                     | 4,608,637       | 24,205,381.2       |
| 2019        | 878,955         | 30,828,516                    | 285.11                                     | 4,975,736       | 24,025,805.4       |
| 2020        | 910,293         | 35,317,635                    | 257.74                                     | 5,184,249       | 25,264,306.3       |
| 2021        | 1,079,817       | 35,792,472                    | 301.69                                     | 5,863,625       | 29,897,020.7       |
| 2022        | 209,685         | 13,677,250                    | 153.31                                     | 826,555         | 10,715,629.6       |
| 2023        | 180,056         | 12,836,629                    | 140.27                                     | 681,729         | 10,102,180.5       |
| 44-64 years |                 |                               |  |                 |                    |
| 2010        | 55,844          | 10,486,545                    | 53.25                                      | 136,221         | 8,687,602.8        |
| 2011        | 246,135         | 13,199,845                    | 186.47                                     | 863,150         | 11,099,318.1       |
| 2012        | 274,694         | 13,848,316                    | 198.36                                     | 976,991         | 10,983,579.6       |
| 2013        | 297,180         | 13,054,843                    | 227.64                                     | 1,064,334       | 11,031,025.3       |
| 2014        | 331,967         | 14,141,168                    | 234.75                                     | 1,158,940       | 11,827,365.7       |
| 2015        | 399,036         | 15,780,209                    | 252.87                                     | 1,283,374       | 13,220,385.3       |
| 2016        | 383,324         | 22,872,924                    | 167.59                                     | 1,438,200       | 14,483,960.3       |
| 2017        | 550,851         | 21,652,361                    | 254.41                                     | 2,305,316       | 18,043,032.5       |
| 2018        | 627,756         | 22,450,919                    | 279.61                                     | 2,853,709       | 18,783,426.5       |
| 2019        | 640,310         | 22,043,885                    | 290.47                                     | 3,038,761       | 18,476,127.8       |
| 2020        | 606,437         | 23,793,221                    | 254.88                                     | 2,931,827       | 18,423,560.3       |

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| Age Group    |                               |                               | Number of Manchara with an Index  |                                | Fliaible Massber                      |
|--------------|-------------------------------|-------------------------------|---|--------------------------------|---------------------------------------|
|              | Members with an<br>Index Date | Eligible Members <sup>1</sup> | Number of Members with an Index  Date per 10K Eligible Members <sup>1</sup> | Total Number of<br>Index Dates | Eligible Member<br>Years <sup>1</sup> |
| 2021         |                               |                               |   |                                |                                       |
| 2021         | 657,965                       | 22,776,085                    | 288.88  | 3,104,148                      | 19,482,348.4                          |
| 2022         | 269,030                       | 12,998,330                    | 206.97  | 934,118                        | 10,871,911.7                          |
| 2023         | 252,035                       | 12,344,493                    | 204.17  | 834,545                        | 10,374,291.4                          |
| ≥ 65 years   | 45.276                        | 2 470 724                     | 40.27   | 25.045                         | 2.042.022.0                           |
| 2010         | 15,376                        | 3,178,734                     | 48.37   | 25,915                         | 2,842,923.8                           |
| 2011         | 107,226                       | 15,889,082                    | 67.48   | 224,709                        | 14,583,907.1                          |
| 2012         | 124,830                       | 18,043,117                    | 69.18   | 266,869                        | 15,385,005.5                          |
| 2013         | 140,651                       | 17,688,467                    | 79.52   | 306,147                        | 16,227,715.5                          |
| 2014         | 173,408                       | 20,330,182                    | 85.3  | 372,398                        | 18,657,456.9                          |
| 2015         | 204,253                       | 21,404,260                    | 95.43   | 421,635                        | 19,592,350.2                          |
| 2016         | 172,046                       | 23,914,591                    | 71.94   | 387,413                        | 20,701,489.0                          |
| 2017         | 206,170                       | 23,351,701                    | 88.29   | 478,891                        | 21,399,607.8                          |
| 2018         | 246,846                       | 24,190,631                    | 102.04  | 592,074                        | 22,152,322.6                          |
| 2019         | 277,441                       | 24,596,886                    | 112.8   | 688,940                        | 22,537,413.6                          |
| 2020         | 270,305                       | 27,045,667                    | 99.94   | 707,189                        | 23,254,874.1                          |
| 2021         | 305,112                       | 25,924,678                    | 117.69  | 800,179                        | 23,722,485.0                          |
| 2022         | 321,570                       | 25,760,788                    | 124.83  | 811,948                        | 23,590,197.4                          |
| 2023         | 344,545                       | 25,788,108                    | 133.61  | 865,614                        | 23,733,657.1                          |
| Prevalent hi | story of Coronary A           | rterial Bypass Graft (        | (CABG) or Percutaneous Transluminal C                                       | Coronary Angioplast            | y (PTCA)                              |
| 0-17 years   |                               |                               |   |                                |                                       |
| 2010         | 126                           | 7,534,754                     | 0.17  | 194                            | 6,025,645.8                           |
| 2011         | 110                           | 7,129,694                     | 0.15  | 176                            | 5,712,931.6                           |
| 2012         | 137                           | 7,245,232                     | 0.19  | 273                            | 5,426,017.0                           |
| 2013         | 121                           | 6,567,262                     | 0.18  | 190                            | 5,277,750.4                           |
| 2014         | 125                           | 7,165,877                     | 0.17  | 154                            | 5,776,245.6                           |
| 2015         | 302                           | 13,726,018                    | 0.22  | 403                            | 11,400,863.7                          |
| 2016         | 466                           | 33,897,316                    | 0.14  | 966                            | 17,196,296.2                          |
| 2017         | 654                           | 30,707,816                    | 0.21  | 904                            | 25,824,993.3                          |
| 2018         | 844                           | 33,570,719                    | 0.25  | 1,218                          | 28,249,185.4                          |
| 2019         | 1,268                         | 32,747,052                    | 0.39  | 1,601                          | 27,650,972.5                          |
| 2020         | 990                           | 38,078,456                    | 0.26  | 1,233                          | 30,315,689.2                          |
| 2021         | 815                           | 37,539,743                    | 0.22  | 1,370                          | 33,711,087.2                          |
| 2022         | 226                           | 6,880,258                     | 0.33  | 427                            | 5,672,454.1                           |
| 2023         | 216                           | 5,849,968                     | 0.37  | 425                            | 4,790,177.2                           |
| 18-43 years  |                               |                               |   |                                |                                       |
| 2010         | 5,384                         | 12,173,285                    | 4.42  | 16,472                         | 9,325,316.6                           |

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Age Group and Year

| Age Group   | and real        |                               |  |                 |                    |
|-------------|-----------------|-------------------------------|--|-----------------|--------------------|
|             | Members with an |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|             | Index Date      | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2011        | 12,460          | 12,778,747                    | 9.75                                       | 43,514          | 9,910,160.2        |
| 2012        | 12,474          | 13,663,679                    | 9.13                                       | 43,594          | 9,855,394.0        |
| 2013        | 12,082          | 12,548,735                    | 9.63                                       | 42,373          | 9,781,599.9        |
| 2014        | 12,094          | 13,550,743                    | 8.92                                       | 43,679          | 10,519,998.5       |
| 2015        | 13,597          | 17,054,339                    | 7.97                                       | 48,518          | 13,146,331.2       |
| 2016        | 16,453          | 29,947,337                    | 5.49                                       | 60,939          | 15,510,568.8       |
| 2017        | 19,864          | 29,102,496                    | 6.83                                       | 69,344          | 22,458,005.9       |
| 2018        | 21,481          | 31,203,689                    | 6.88                                       | 74,004          | 24,205,381.2       |
| 2019        | 22,564          | 30,828,516                    | 7.32                                       | 73,369          | 24,025,805.4       |
| 2020        | 21,219          | 35,317,635                    | 6.01                                       | 64,250          | 25,264,306.3       |
| 2021        | 18,638          | 35,792,472                    | 5.21                                       | 61,369          | 29,897,020.7       |
| 2022        | 9,307           | 13,677,250                    | 6.8  | 34,535          | 10,715,629.6       |
| 2023        | 8,408           | 12,836,629                    | 6.55                                       | 32,916          | 10,102,180.5       |
| 44-64 years | 5               |                               |  |                 |                    |
| 2010        | 103,672         | 10,486,545                    | 98.86                                      | 327,420         | 8,687,602.8        |
| 2011        | 242,725         | 13,199,845                    | 183.88                                     | 811,709         | 11,099,318.1       |
| 2012        | 243,726         | 13,848,316                    | 176  | 823,291         | 10,983,579.6       |
| 2013        | 243,764         | 13,054,843                    | 186.72                                     | 830,301         | 11,031,025.3       |
| 2014        | 256,046         | 14,141,168                    | 181.06                                     | 888,969         | 11,827,365.7       |
| 2015        | 284,136         | 15,780,209                    | 180.06                                     | 998,994         | 13,220,385.3       |
| 2016        | 334,491         | 22,872,924                    | 146.24                                     | 1,262,522       | 14,483,960.3       |
| 2017        | 376,155         | 21,652,361                    | 173.72                                     | 1,427,131       | 18,043,032.5       |
| 2018        | 387,460         | 22,450,919                    | 172.58                                     | 1,462,566       | 18,783,426.5       |
| 2019        | 381,792         | 22,043,885                    | 173.2                                      | 1,484,317       | 18,476,127.8       |
| 2020        | 339,452         | 23,793,221                    | 142.67                                     | 1,218,616       | 18,423,560.3       |
| 2021        | 329,361         | 22,776,085                    | 144.61                                     | 1,227,312       | 19,482,348.4       |
| 2022        | 228,412         | 12,998,330                    | 175.72                                     | 908,064         | 10,871,911.7       |
| 2023        | 212,105         | 12,344,493                    | 171.82                                     | 862,233         | 10,374,291.4       |
| ≥ 65 years  |                 |                               |  |                 |                    |
| 2010        | 169,706         | 3,178,734                     | 533.88                                     | 508,618         | 2,842,923.8        |
| 2011        | 1,169,042       | 15,889,082                    | 735.75                                     | 3,959,542       | 14,583,907.1       |
| 2012        | 1,234,508       | 18,043,117                    | 684.2                                      | 4,181,755       | 15,385,005.5       |
| 2013        | 1,284,121       | 17,688,467                    | 725.97                                     | 4,395,346       | 16,227,715.5       |
| 2014        | 1,461,198       | 20,330,182                    | 718.73                                     | 5,065,463       | 18,657,456.9       |
| 2015        | 1,604,443       | 21,404,260                    | 749.59                                     | 5,708,477       | 19,592,350.2       |
| 2016        | 1,812,430       | 23,914,591                    | 757.88                                     | 7,176,549       | 20,701,489.0       |
|             |                 |                               |  |                 |                    |

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Age Group and Year

| Members with an Index Date         Eligible Members <sup>1</sup> Date per 10K Eligible Member           2017         1,893,350         23,351,701         810.8           2018         1,951,892         24,190,631         806.88           2019         2,029,617         24,596,886         825.15           2020         1,892,530         27,045,667         699.75           2021         1,937,491         25,924,678         747.35           2022         1,907,283         25,760,788         740.38           2023         1,889,587         25,788,108         732.74           Prevalent history of sudden cardiac arrest           0-17 years           2010         503         7,534,754         0.67           2011         492         7,129,694         0.69           2012         516         7,245,232         0.71           2013         548         6,567,262         0.83           2014         522         7,165,877         0.73           2015         1,594         13,726,018         1.16 |                                     | Eligible Member Years <sup>1</sup> 21,399,607.8 22,152,322.6 |
|--|-------------------------------------|--|
| Index Date         Eligible Members¹         Date per 10K Eligible Membee           2017         1,893,350         23,351,701         810.8           2018         1,951,892         24,190,631         806.88           2019         2,029,617         24,596,886         825.15           2020         1,892,530         27,045,667         699.75           2021         1,937,491         25,924,678         747.35           2022         1,907,283         25,760,788         740.38           2023         1,889,587         25,788,108         732.74           Prevalent history of sudden cardiac arrest           0-17 years         2010         503         7,534,754         0.67           2011         492         7,129,694         0.69           2012         516         7,245,232         0.71           2013         548         6,567,262         0.83           2014         522         7,165,877         0.73  | 7,744,489<br>8,163,910<br>8,862,123 | Years <sup>1</sup> 21,399,607.8                              |
| 2018       1,951,892       24,190,631       806.88         2019       2,029,617       24,596,886       825.15         2020       1,892,530       27,045,667       699.75         2021       1,937,491       25,924,678       747.35         2022       1,907,283       25,760,788       740.38         2023       1,889,587       25,788,108       732.74         Prevalent history of sudden cardiac arrest         0-17 years       2010       503       7,534,754       0.67         2011       492       7,129,694       0.69         2012       516       7,245,232       0.71         2013       548       6,567,262       0.83         2014       522       7,165,877       0.73  | 8,163,910<br>8,862,123              |  |
| 2019       2,029,617       24,596,886       825.15         2020       1,892,530       27,045,667       699.75         2021       1,937,491       25,924,678       747.35         2022       1,907,283       25,760,788       740.38         2023       1,889,587       25,788,108       732.74         Prevalent history of sudden cardiac arrest         0-17 years       2010       503       7,534,754       0.67         2011       492       7,129,694       0.69         2012       516       7,245,232       0.71         2013       548       6,567,262       0.83         2014       522       7,165,877       0.73   | 8,862,123                           | 22,152,322.6   |
| 2020       1,892,530       27,045,667       699.75         2021       1,937,491       25,924,678       747.35         2022       1,907,283       25,760,788       740.38         2023       1,889,587       25,788,108       732.74         Prevalent history of sudden cardiac arrest         0-17 years       2010       503       7,534,754       0.67         2011       492       7,129,694       0.69         2012       516       7,245,232       0.71         2013       548       6,567,262       0.83         2014       522       7,165,877       0.73  |                                     |  |
| 2021       1,937,491       25,924,678       747.35         2022       1,907,283       25,760,788       740.38         2023       1,889,587       25,788,108       732.74         Prevalent history of sudden cardiac arrest         0-17 years         2010       503       7,534,754       0.67         2011       492       7,129,694       0.69         2012       516       7,245,232       0.71         2013       548       6,567,262       0.83         2014       522       7,165,877       0.73   | 7.544 479                           | 22,537,413.6   |
| 2022       1,907,283       25,760,788       740.38         2023       1,889,587       25,788,108       732.74         Prevalent history of sudden cardiac arrest         0-17 years         2010       503       7,534,754       0.67         2011       492       7,129,694       0.69         2012       516       7,245,232       0.71         2013       548       6,567,262       0.83         2014       522       7,165,877       0.73  | ,,,,,,,,,                           | 23,254,874.1   |
| 2023       1,889,587       25,788,108       732.74         Prevalent history of sudden cardiac arrest         0-17 years         2010       503       7,534,754       0.67         2011       492       7,129,694       0.69         2012       516       7,245,232       0.71         2013       548       6,567,262       0.83         2014       522       7,165,877       0.73   | 8,252,529                           | 23,722,485.0   |
| Prevalent history of sudden cardiac arrest         0-17 years       0.67         2010       503       7,534,754       0.67         2011       492       7,129,694       0.69         2012       516       7,245,232       0.71         2013       548       6,567,262       0.83         2014       522       7,165,877       0.73   | 8,178,984                           | 23,590,197.4   |
| 0-17 years       2010     503     7,534,754     0.67       2011     492     7,129,694     0.69       2012     516     7,245,232     0.71       2013     548     6,567,262     0.83       2014     522     7,165,877     0.73   | 8,314,598                           | 23,733,657.1   |
| 2010       503       7,534,754       0.67         2011       492       7,129,694       0.69         2012       516       7,245,232       0.71         2013       548       6,567,262       0.83         2014       522       7,165,877       0.73  |                                     |  |
| 2011       492       7,129,694       0.69         2012       516       7,245,232       0.71         2013       548       6,567,262       0.83         2014       522       7,165,877       0.73  |                                     |  |
| 2012       516       7,245,232       0.71         2013       548       6,567,262       0.83         2014       522       7,165,877       0.73  | 842                                 | 6,025,645.8  |
| 2013       548       6,567,262       0.83         2014       522       7,165,877       0.73  | 858                                 | 5,712,931.6  |
| 2014 522 7,165,877 0.73  | 1,124                               | 5,426,017.0  |
|  | 1,061                               | 5,277,750.4  |
| 2015 1,594 13,726,018 1.16   | 1,225                               | 5,776,245.6  |
|  | 6,169                               | 11,400,863.7   |
| 2016 2,873 33,897,316 0.85   | 9,605                               | 17,196,296.2   |
| 2017 4,713 30,707,816 1.53   | 16,873                              | 25,824,993.3   |
| 2018 5,261 33,570,719 1.57   | 20,663                              | 28,249,185.4   |
| 2019 5,399 32,747,052 1.65   | 23,392                              | 27,650,972.5   |
| 2020 5,700 38,078,456 1.5  | 25,296                              | 30,315,689.2   |
| 2021 7,017 37,539,743 1.87   | 30,287                              | 33,711,087.2   |
| 2022 788 6,880,258 1.15  | 2,897                               | 5,672,454.1  |
| 2023 633 5,849,968 1.08  | 2,326                               | 4,790,177.2  |
| 18-43 years  |                                     |  |
| 2010 2,268 12,173,285 1.86   | 3,517                               | 9,325,316.6  |
| 2011 7,115 12,778,747 5.57   | 18,545                              | 9,910,160.2  |
| 2012 7,543 13,663,679 5.52   | 20,493                              | 9,855,394.0  |
| 2013 7,882 12,548,735 6.28   | 21,909                              | 9,781,599.9  |
| 2014 7,940 13,550,743 5.86   | 22,632                              | 10,519,998.5   |
| 2015 10,530 17,054,339 6.17  | 31,489                              | 13,146,331.2   |
| 2016 14,220 29,947,337 4.75  | 41,889                              | 15,510,568.8   |
| 2017 22,441 29,102,496 7.71  | 63,458                              | 22,458,005.9   |
| 2018 23,797 31,203,689 7.63  | 72,539                              | 24,205,381.2   |
| 2019 23,281 30,828,516 7.55  |                                     |  |
| 2020 28,164 35,317,635 7.97  | 77,897                              | 24,025,805.4   |
| 2021 33,843 35,792,472 9.46  | 77,897<br>92,421                    | 24,025,805.4<br>25,264,306.3                                 |

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Age Group and Year

| Age Group a | anu real        |                               |  |                 |                    |
|-------------|-----------------|-------------------------------|--|-----------------|--------------------|
|             | Members with an |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|             | Index Date      | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2022        | 8,370           | 13,677,250                    | 6.12                                       | 32,169          | 10,715,629.6       |
| 2023        | 7,357           | 12,836,629                    | 5.73                                       | 29,816          | 10,102,180.5       |
| 44-64 years |                 |                               |  |                 |                    |
| 2010        | 9,373           | 10,486,545                    | 8.94                                       | 14,166          | 8,687,602.8        |
| 2011        | 36,966          | 13,199,845                    | 28   | 97,720          | 11,099,318.1       |
| 2012        | 38,994          | 13,848,316                    | 28.16                                      | 104,524         | 10,983,579.6       |
| 2013        | 40,866          | 13,054,843                    | 31.3                                       | 115,261         | 11,031,025.3       |
| 2014        | 44,103          | 14,141,168                    | 31.19                                      | 128,032         | 11,827,365.7       |
| 2015        | 50,902          | 15,780,209                    | 32.26                                      | 148,090         | 13,220,385.3       |
| 2016        | 58,140          | 22,872,924                    | 25.42                                      | 177,019         | 14,483,960.3       |
| 2017        | 76,464          | 21,652,361                    | 35.31                                      | 234,070         | 18,043,032.5       |
| 2018        | 77,290          | 22,450,919                    | 34.43                                      | 253,020         | 18,783,426.5       |
| 2019        | 74,315          | 22,043,885                    | 33.71                                      | 259,023         | 18,476,127.8       |
| 2020        | 84,603          | 23,793,221                    | 35.56                                      | 288,196         | 18,423,560.3       |
| 2021        | 88,381          | 22,776,085                    | 38.8                                       | 300,155         | 19,482,348.4       |
| 2022        | 41,529          | 12,998,330                    | 31.95                                      | 145,277         | 10,871,911.7       |
| 2023        | 36,504          | 12,344,493                    | 29.57                                      | 124,781         | 10,374,291.4       |
| ≥ 65 years  |                 |                               |  |                 |                    |
| 2010        | 15,112          | 3,178,734                     | 47.54                                      | 20,932          | 2,842,923.8        |
| 2011        | 124,693         | 15,889,082                    | 78.48                                      | 278,008         | 14,583,907.1       |
| 2012        | 131,302         | 18,043,117                    | 72.77                                      | 300,134         | 15,385,005.5       |
| 2013        | 141,394         | 17,688,467                    | 79.94                                      | 335,236         | 16,227,715.5       |
| 2014        | 159,890         | 20,330,182                    | 78.65                                      | 388,881         | 18,657,456.9       |
| 2015        | 167,223         | 21,404,260                    | 78.13                                      | 416,938         | 19,592,350.2       |
| 2016        | 171,706         | 23,914,591                    | 71.8                                       | 446,268         | 20,701,489.0       |
| 2017        | 186,483         | 23,351,701                    | 79.86                                      | 495,063         | 21,399,607.8       |
| 2018        | 183,164         | 24,190,631                    | 75.72                                      | 505,659         | 22,152,322.6       |
| 2019        | 183,636         | 24,596,886                    | 74.66                                      | 525,460         | 22,537,413.6       |
| 2020        | 205,187         | 27,045,667                    | 75.87                                      | 559,985         | 23,254,874.1       |
| 2021        | 208,229         | 25,924,678                    | 80.32                                      | 583,961         | 23,722,485.0       |
| 2022        | 193,026         | 25,760,788                    | 74.93                                      | 547,612         | 23,590,197.4       |
| 2023        | 179,151         | 25,788,108                    | 69.47                                      | 516,915         | 23,733,657.1       |
|             |                 |                               |  |                 |                    |

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|             | Members with an  |                               | Number of Members with an Index            | Total Number of | Eligible Member    |  |  |  |
|-------------|--|-------------------------------|--|-----------------|--------------------|--|--|--|
|             | Index Date   | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |  |  |  |
| -           | Other Confounding  |                               | 4 4 4 4000                                 |                 |                    |  |  |  |
| _           | Has diagnosis code that indicates a range of Body Mass Index (BMI) |                               |  |                 |                    |  |  |  |
| 0-17 years  |  |                               |  |                 |                    |  |  |  |
| 2010        | 51,732   | 7,534,754                     | 68.66                                      | 56,914          | 6,025,645.8        |  |  |  |
| 2011        | 72,364   | 7,129,694                     | 101.5                                      | 81,812          | 5,712,931.6        |  |  |  |
| 2012        | 105,198  | 7,245,232                     | 145.2                                      | 117,173         | 5,426,017.0        |  |  |  |
| 2013        | 151,984  | 6,567,262                     | 231.43                                     | 170,196         | 5,277,750.4        |  |  |  |
| 2014        | 263,416  | 7,165,877                     | 367.6                                      | 293,718         | 5,776,245.6        |  |  |  |
| 2015        | 787,980  | 13,726,018                    | 574.08                                     | 899,532         | 11,400,863.7       |  |  |  |
| 2016        | 1,354,622  | 33,897,316                    | 399.63                                     | 1,608,833       | 17,196,296.2       |  |  |  |
| 2017        | 2,528,476  | 30,707,816                    | 823.4                                      | 3,129,718       | 25,824,993.3       |  |  |  |
| 2018        | 3,483,319  | 33,570,719                    | 1,037.61                                   | 4,467,802       | 28,249,185.4       |  |  |  |
| 2019        | 4,029,998  | 32,747,052                    | 1,230.64                                   | 5,191,731       | 27,650,972.5       |  |  |  |
| 2020        | 4,333,781  | 38,078,456                    | 1,138.12                                   | 5,274,752       | 30,315,689.2       |  |  |  |
| 2021        | 5,275,309  | 37,539,743                    | 1,405.26                                   | 6,568,263       | 33,711,087.2       |  |  |  |
| 2022        | 1,589,560  | 6,880,258                     | 2,310.32                                   | 2,049,130       | 5,672,454.1        |  |  |  |
| 2023        | 1,417,065  | 5,849,968                     | 2,422.35                                   | 1,827,723       | 4,790,177.2        |  |  |  |
| 18-43 years |  |                               |  |                 |                    |  |  |  |
| 2010        | 46,824   | 12,173,285                    | 38.46                                      | 69,027          | 9,325,316.6        |  |  |  |
| 2011        | 108,825  | 12,778,747                    | 85.16                                      | 183,420         | 9,910,160.2        |  |  |  |
| 2012        | 179,291  | 13,663,679                    | 131.22                                     | 301,700         | 9,855,394.0        |  |  |  |
| 2013        | 286,859  | 12,548,735                    | 228.6                                      | 488,134         | 9,781,599.9        |  |  |  |
| 2014        | 443,568  | 13,550,743                    | 327.34                                     | 773,952         | 10,519,998.5       |  |  |  |
| 2015        | 740,054  | 17,054,339                    | 433.94                                     | 1,288,453       | 13,146,331.2       |  |  |  |
| 2016        | 1,204,462  | 29,947,337                    | 402.19                                     | 2,221,046       | 15,510,568.8       |  |  |  |
| 2017        | 2,172,522  | 29,102,496                    | 746.51                                     | 3,917,008       | 22,458,005.9       |  |  |  |
| 2018        | 2,831,219  | 31,203,689                    | 907.33                                     | 5,246,433       | 24,205,381.2       |  |  |  |
| 2019        | 2,988,377  | 30,828,516                    | 969.35                                     | 5,586,416       | 24,025,805.4       |  |  |  |
| 2020        | 2,681,254  | 35,317,635                    | 759.18                                     | 4,776,076       | 25,264,306.3       |  |  |  |
| 2021        | 3,208,649  | 35,792,472                    | 896.46                                     | 5,804,469       | 29,897,020.7       |  |  |  |
| 2022        | 1,827,858  | 13,677,250                    | 1,336.42                                   | 3,659,371       | 10,715,629.6       |  |  |  |
| 2023        | 1,916,275  | 12,836,629                    | 1,492.82                                   | 3,818,942       | 10,102,180.5       |  |  |  |
| 44-64 years |  |                               |  |                 |                    |  |  |  |
| 2010        | 73,903   | 10,486,545                    | 70.47                                      | 108,474         | 8,687,602.8        |  |  |  |
| 2011        | 261,903  | 13,199,845                    | 198.41                                     | 449,218         | 11,099,318.1       |  |  |  |
| 2012        | 414,579  | 13,848,316                    | 299.37                                     | 746,300         | 10,983,579.6       |  |  |  |
|             | •  | •                             |  |                 | •                  |  |  |  |

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Age Group and Year

| Age Group   | and rear               |                               |  |                 |                    |
|-------------|------------------------|-------------------------------|--|-----------------|--------------------|
|             | Members with an        |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|             | Index Date             | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2013        | 630,416                | 13,054,843                    | 482.9                                      | 1,188,261       | 11,031,025.3       |
| 2014        | 932,721                | 14,141,168                    | 659.58                                     | 1,836,797       | 11,827,365.7       |
| 2015        | 1,403,623              | 15,780,209                    | 889.48                                     | 2,859,722       | 13,220,385.3       |
| 2016        | 2,136,635              | 22,872,924                    | 934.13                                     | 4,726,761       | 14,483,960.3       |
| 2017        | 3,182,570              | 21,652,361                    | 1,469.85                                   | 7,120,853       | 18,043,032.5       |
| 2018        | 3,889,107              | 22,450,919                    | 1,732.27                                   | 8,971,087       | 18,783,426.5       |
| 2019        | 4,122,008              | 22,043,885                    | 1,869.91                                   | 9,700,175       | 18,476,127.8       |
| 2020        | 3,600,113              | 23,793,221                    | 1,513.08                                   | 7,976,146       | 18,423,560.3       |
| 2021        | 3,938,370              | 22,776,085                    | 1,729.17                                   | 9,001,073       | 19,482,348.4       |
| 2022        | 3,089,903              | 12,998,330                    | 2,377.15                                   | 7,597,883       | 10,871,911.7       |
| 2023        | 3,152,210              | 12,344,493                    | 2,553.54                                   | 7,786,152       | 10,374,291.4       |
| ≥ 65 years  |                        |                               |  |                 |                    |
| 2010        | 34,757                 | 3,178,734                     | 109.34                                     | 48,705          | 2,842,923.8        |
| 2011        | 498,398                | 15,889,082                    | 313.67                                     | 774,103         | 14,583,907.1       |
| 2012        | 858,224                | 18,043,117                    | 475.65                                     | 1,609,073       | 15,385,005.5       |
| 2013        | 1,344,280              | 17,688,467                    | 759.98                                     | 2,681,180       | 16,227,715.5       |
| 2014        | 2,101,865              | 20,330,182                    | 1,033.86                                   | 4,384,201       | 18,657,456.9       |
| 2015        | 2,975,476              | 21,404,260                    | 1,390.13                                   | 6,543,336       | 19,592,350.2       |
| 2016        | 4,279,782              | 23,914,591                    | 1,789.61                                   | 10,129,853      | 20,701,489.0       |
| 2017        | 5,667,917              | 23,351,701                    | 2,427.20                                   | 14,258,434      | 21,399,607.8       |
| 2018        | 6,824,612              | 24,190,631                    | 2,821.18                                   | 18,081,980      | 22,152,322.6       |
| 2019        | 7,559,055              | 24,596,886                    | 3,073.18                                   | 20,817,998      | 22,537,413.6       |
| 2020        | 7,037,599              | 27,045,667                    | 2,602.12                                   | 17,656,554      | 23,254,874.1       |
| 2021        | 7,823,527              | 25,924,678                    | 3,017.79                                   | 20,759,876      | 23,722,485.0       |
| 2022        | 8,065,251              | 25,760,788                    | 3,130.82                                   | 21,855,241      | 23,590,197.4       |
| 2023        | 8,307,161              | 25,788,108                    | 3,221.31                                   | 22,753,221      | 23,733,657.1       |
| Has diagnos | sis code that indicate | es a range of BMI th          | at classifies as obesity                   |                 |                    |
| 0-17 years  |                        |                               |  |                 |                    |
| 2010        | 14,947                 | 7,534,754                     | 19.84                                      | 18,323          | 6,025,645.8        |
| 2011        | 20,993                 | 7,129,694                     | 29.44                                      | 25,650          | 5,712,931.6        |
| 2012        | 27,669                 | 7,245,232                     | 38.19                                      | 33,420          | 5,426,017.0        |
| 2013        | 34,665                 | 6,567,262                     | 52.78                                      | 42,179          | 5,277,750.4        |
| 2014        | 55,084                 | 7,165,877                     | 76.87                                      | 66,758          | 5,776,245.6        |
| 2015        | 173,454                | 13,726,018                    | 126.37                                     | 212,049         | 11,400,863.7       |
| 2016        | 335,702                | 33,897,316                    | 99.03                                      | 418,684         | 17,196,296.2       |
| 2017        | 672,411                | 30,707,816                    | 218.97                                     | 877,876         | 25,824,993.3       |

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Age Group and Year

| Age Group a | anu tear        |                               |  |                 |                    |
|-------------|-----------------|-------------------------------|--|-----------------|--------------------|
|             | Members with an |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|             | Index Date      | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2018        | 907,815         | 33,570,719                    | 270.42                                     | 1,211,933       | 28,249,185.4       |
| 2019        | 1,035,635       | 32,747,052                    | 316.25                                     | 1,380,297       | 27,650,972.5       |
| 2020        | 1,136,373       | 38,078,456                    | 298.43                                     | 1,427,299       | 30,315,689.2       |
| 2021        | 1,530,056       | 37,539,743                    | 407.58                                     | 1,964,671       | 33,711,087.2       |
| 2022        | 305,613         | 6,880,258                     | 444.19                                     | 417,679         | 5,672,454.1        |
| 2023        | 233,501         | 5,849,968                     | 399.15                                     | 321,372         | 4,790,177.2        |
| 18-43 years |                 |                               |  |                 |                    |
| 2010        | 37,882          | 12,173,285                    | 31.12                                      | 57,299          | 9,325,316.6        |
| 2011        | 83,082          | 12,778,747                    | 65.02                                      | 143,354         | 9,910,160.2        |
| 2012        | 122,580         | 13,663,679                    | 89.71                                      | 213,695         | 9,855,394.0        |
| 2013        | 178,422         | 12,548,735                    | 142.18                                     | 317,521         | 9,781,599.9        |
| 2014        | 263,864         | 13,550,743                    | 194.72                                     | 485,281         | 10,519,998.5       |
| 2015        | 437,217         | 17,054,339                    | 256.37                                     | 799,838         | 13,146,331.2       |
| 2016        | 710,457         | 29,947,337                    | 237.24                                     | 1,381,512       | 15,510,568.8       |
| 2017        | 1,226,266       | 29,102,496                    | 421.36                                     | 2,328,434       | 22,458,005.9       |
| 2018        | 1,566,392       | 31,203,689                    | 501.99                                     | 3,058,827       | 24,205,381.2       |
| 2019        | 1,602,658       | 30,828,516                    | 519.86                                     | 3,183,384       | 24,025,805.4       |
| 2020        | 1,479,594       | 35,317,635                    | 418.94                                     | 2,814,253       | 25,264,306.3       |
| 2021        | 1,810,659       | 35,792,472                    | 505.88                                     | 3,490,015       | 29,897,020.7       |
| 2022        | 1,048,833       | 13,677,250                    | 766.84                                     | 2,255,928       | 10,715,629.6       |
| 2023        | 1,089,355       | 12,836,629                    | 848.63                                     | 2,357,628       | 10,102,180.5       |
| 44-64 years |                 |                               |  |                 |                    |
| 2010        | 62,665          | 10,486,545                    | 59.76                                      | 93,527          | 8,687,602.8        |
| 2011        | 205,353         | 13,199,845                    | 155.57                                     | 362,668         | 11,099,318.1       |
| 2012        | 303,012         | 13,848,316                    | 218.81                                     | 557,634         | 10,983,579.6       |
| 2013        | 433,224         | 13,054,843                    | 331.85                                     | 832,835         | 11,031,025.3       |
| 2014        | 621,897         | 14,141,168                    | 439.78                                     | 1,253,414       | 11,827,365.7       |
| 2015        | 922,531         | 15,780,209                    | 584.61                                     | 1,921,399       | 13,220,385.3       |
| 2016        | 1,386,390       | 22,872,924                    | 606.13                                     | 3,150,244       | 14,483,960.3       |
| 2017        | 1,988,087       | 21,652,361                    | 918.18                                     | 4,591,513       | 18,043,032.5       |
| 2018        | 2,406,930       | 22,450,919                    | 1,072.09                                   | 5,738,388       | 18,783,426.5       |
| 2019        | 2,541,323       | 22,043,885                    | 1,152.85                                   | 6,207,366       | 18,476,127.8       |
| 2020        | 2,274,179       | 23,793,221                    | 955.81                                     | 5,257,768       | 18,423,560.3       |
| 2021        | 2,520,671       | 22,776,085                    | 1,106.72                                   | 6,009,627       | 19,482,348.4       |
| 2022        | 2,028,672       | 12,998,330                    | 1,560.72                                   | 5,168,632       | 10,871,911.7       |
| 2023        | 2,071,647       | 12,344,493                    | 1,678.20                                   | 5,303,510       | 10,374,291.4       |

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| Age Gloup 8  |                            |                               |   |                             |                                       |
|--------------|----------------------------|-------------------------------|---|-----------------------------|---------------------------------------|
|              | Members with an Index Date | Eligible Members <sup>1</sup> | Number of Members with an Index  Date per 10K Eligible Members <sup>1</sup> | Total Number of Index Dates | Eligible Member<br>Years <sup>1</sup> |
| ≥ 65 years   | mack butc                  | Liigibic Wichibers            | Date per 10k Englishe Wernsers  | mack bates                  | icuis                                 |
| 2010         | 21,716                     | 3,178,734                     | 68.32   | 31,390                      | 2,842,923.8                           |
| 2010         | 266,164                    | 15,889,082                    | 167.51  | 427,187                     | 14,583,907.1                          |
| 2011         | 442,201                    | 18,043,117                    | 245.08  | 803,383                     | 15,385,005.5                          |
| 2012         | 670,090                    | 17,688,467                    | 378.83  | 1,288,913                   | 16,227,715.5                          |
| 2013         | 1,032,525                  | 20,330,182                    | 507.88  | 2,093,233                   | 18,657,456.9                          |
| 2014         | 1,467,415                  | 21,404,260                    | 685.57  | 3,134,496                   | 19,592,350.2                          |
| 2015         | 2,107,414                  | 23,914,591                    | 881.23  | 4,907,906                   | 20,701,489.0                          |
| 2010         | 2,757,704                  | 23,351,701                    | 1,180.94  | 6,842,669                   | 21,399,607.8                          |
| 2017         | 3,324,047                  | 24,190,631                    | 1,374.11  | 8,707,947                   | 22,152,322.6                          |
| 2018         | 3,709,183                  | 24,190,031                    | 1,507.99  | 10,138,010                  |                                       |
|              |                            |                               | ·   | 8,932,260                   | 22,537,413.6                          |
| 2020<br>2021 | 3,511,014<br>3,963,187     | 27,045,667<br>25,924,678      | 1,298.18<br>1,528.73  | 10,625,578                  | 23,254,874.1<br>23,722,485.0          |
| 2021         | 4,092,759                  | 25,760,788                    |   |                             |                                       |
| 2022         | 4,092,759                  | 25,788,108                    | 1,588.76  | 11,136,046<br>11,679,190    | 23,590,197.4                          |
|              |                            |                               | 1,643.54<br>at classifies as overweight                                     | 11,679,190                  | 23,733,657.1                          |
| 0-17 years   | is code that maicat        | es a range of bivil til       | at classifies as overweight   |                             |                                       |
| 2010         | 8,644                      | 7,534,754                     | 11.47   | 9,110                       | 6,025,645.8                           |
| 2011         | 12,146                     | 7,129,694                     | 17.04   | 13,081                      | 5,712,931.6                           |
| 2012         | 17,612                     | 7,245,232                     | 24.31   | 18,752                      | 5,426,017.0                           |
| 2013         | 24,020                     | 6,567,262                     | 36.58   | 25,808                      | 5,277,750.4                           |
| 2014         | 40,554                     | 7,165,877                     | 56.59   | 43,715                      | 5,776,245.6                           |
| 2015         | 119,626                    | 13,726,018                    | 87.15   | 130,627                     | 11,400,863.7                          |
| 2016         | 213,658                    | 33,897,316                    | 63.03   | 238,041                     | 17,196,296.2                          |
| 2017         | 410,984                    | 30,707,816                    | 133.84  | 472,922                     | 25,824,993.3                          |
| 2018         | 573,938                    | 33,570,719                    | 170.96  | 681,820                     | 28,249,185.4                          |
| 2019         | 656,782                    | 32,747,052                    | 200.56  | 782,132                     | 27,650,972.5                          |
| 2020         | 686,499                    | 38,078,456                    | 180.29  | 783,247                     | 30,315,689.2                          |
| 2021         | 823,451                    | 37,539,743                    | 219.35  | 949,329                     | 33,711,087.2                          |
| 2022         | 228,669                    | 6,880,258                     | 332.36  | 271,546                     | 5,672,454.1                           |
| 2023         | 199,392                    | 5,849,968                     | 340.84  | 236,588                     | 4,790,177.2                           |
| 18-43 years  |                            |                               |   |                             |                                       |
| 2010         | 4,825                      | 12,173,285                    | 3.96  | 6,295                       | 9,325,316.6                           |
| 2011         | 12,400                     | 12,778,747                    | 9.7   | 16,430                      | 9,910,160.2                           |
| 2012         | 29,448                     | 13,663,679                    | 21.55   | 40,423                      | 9,855,394.0                           |
| 2013         | 56,810                     | 12,548,735                    | 45.27   | 81,139                      | 9,781,599.9                           |
|              |                            |                               |   |                             |                                       |

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Age Group and Year

| Age Group a | and rear        |                               |  |                 |                    |
|-------------|-----------------|-------------------------------|--|-----------------|--------------------|
|             | Members with an |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|             | Index Date      | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2014        | 94,964          | 13,550,743                    | 70.08                                      | 139,526         | 10,519,998.5       |
| 2015        | 162,374         | 17,054,339                    | 95.21                                      | 241,092         | 13,146,331.2       |
| 2016        | 272,733         | 29,947,337                    | 91.07                                      | 426,534         | 15,510,568.8       |
| 2017        | 512,089         | 29,102,496                    | 175.96                                     | 800,172         | 22,458,005.9       |
| 2018        | 680,749         | 31,203,689                    | 218.16                                     | 1,084,144       | 24,205,381.2       |
| 2019        | 736,127         | 30,828,516                    | 238.78                                     | 1,176,564       | 24,025,805.4       |
| 2020        | 626,284         | 35,317,635                    | 177.33                                     | 955,714         | 25,264,306.3       |
| 2021        | 736,250         | 35,792,472                    | 205.7                                      | 1,130,152       | 29,897,020.7       |
| 2022        | 440,030         | 13,677,250                    | 321.72                                     | 720,368         | 10,715,629.6       |
| 2023        | 463,320         | 12,836,629                    | 360.94                                     | 751,975         | 10,102,180.5       |
| 44-64 years |                 |                               |  |                 |                    |
| 2010        | 6,739           | 10,486,545                    | 6.43                                       | 8,724           | 8,687,602.8        |
| 2011        | 28,921          | 13,199,845                    | 21.91                                      | 38,342          | 11,099,318.1       |
| 2012        | 66,297          | 13,848,316                    | 47.87                                      | 99,097          | 10,983,579.6       |
| 2013        | 123,768         | 13,054,843                    | 94.81                                      | 198,119         | 11,031,025.3       |
| 2014        | 202,473         | 14,141,168                    | 143.18                                     | 337,554         | 11,827,365.7       |
| 2015        | 324,745         | 15,780,209                    | 205.79                                     | 555,560         | 13,220,385.3       |
| 2016        | 524,034         | 22,872,924                    | 229.11                                     | 960,484         | 14,483,960.3       |
| 2017        | 832,980         | 21,652,361                    | 384.71                                     | 1,546,432       | 18,043,032.5       |
| 2018        | 1,037,816       | 22,450,919                    | 462.26                                     | 1,971,040       | 18,783,426.5       |
| 2019        | 1,106,725       | 22,043,885                    | 502.06                                     | 2,120,452       | 18,476,127.8       |
| 2020        | 921,268         | 23,793,221                    | 387.2                                      | 1,656,692       | 18,423,560.3       |
| 2021        | 998,918         | 22,776,085                    | 438.58                                     | 1,838,757       | 19,482,348.4       |
| 2022        | 790,282         | 12,998,330                    | 607.99                                     | 1,533,940       | 10,871,911.7       |
| 2023        | 812,714         | 12,344,493                    | 658.36                                     | 1,586,917       | 10,374,291.4       |
| ≥ 65 years  |                 |                               |  |                 |                    |
| 2010        | 5,158           | 3,178,734                     | 16.23                                      | 6,693           | 2,842,923.8        |
| 2011        | 100,115         | 15,889,082                    | 63.01                                      | 139,327         | 14,583,907.1       |
| 2012        | 219,398         | 18,043,117                    | 121.6                                      | 393,420         | 15,385,005.5       |
| 2013        | 382,482         | 17,688,467                    | 216.23                                     | 718,947         | 16,227,715.5       |
| 2014        | 633,303         | 20,330,182                    | 311.51                                     | 1,220,393       | 18,657,456.9       |
| 2015        | 929,725         | 21,404,260                    | 434.36                                     | 1,852,631       | 19,592,350.2       |
| 2016        | 1,387,334       | 23,914,591                    | 580.12                                     | 2,916,694       | 20,701,489.0       |
| 2017        | 1,908,069       | 23,351,701                    | 817.1                                      | 4,200,552       | 21,399,607.8       |
| 2018        | 2,330,207       | 24,190,631                    | 963.27                                     | 5,319,569       | 22,152,322.6       |
| 2019        | 2,572,738       | 24,596,886                    | 1,045.96                                   | 6,027,607       | 22,537,413.6       |

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| Age Group | allu real                  |                               |  |                             |                                       |
|-----------|----------------------------|-------------------------------|--|-----------------------------|---------------------------------------|
|           | Members with an Index Date | Eligible Members <sup>1</sup> | Number of Members with an Index Date per 10K Eligible Members <sup>1</sup> | Total Number of Index Dates | Eligible Member<br>Years <sup>1</sup> |
| 2020      | 2,322,225                  | 27,045,667                    | 858.63   | 4,935,774                   | 23,254,874.1                          |
| 2021      | 2,575,492                  | 25,924,678                    | 993.45   | 5,740,876                   | 23,722,485.0                          |
| 2022      | 2,644,835                  | 25,760,788                    | 1,026.69   | 6,013,754                   | 23,590,197.4                          |
| 2023      | 2,708,151                  | 25,788,108                    | 1050.15  | 6,201,933                   | 23,733,657.1                          |

<sup>&</sup>lt;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.

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Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Sex and Year

|              | Members with an    |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|--------------|--------------------|-------------------------------|--|-----------------|--------------------|
|              | Index Date         | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| Incident Cap | oture (365-Day Was | hout) of Confoundi            | ng Conditions                              |                 |                    |
| Incident obe | sity               |                               |  |                 |                    |
| Female       |                    |                               |  |                 |                    |
| 2010         | 453,793            | 16,336,066                    | 277.79                                     | 453,793         | 13,236,114.4       |
| 2011         | 1,092,605          | 25,279,992                    | 432.2                                      | 1,092,605       | 21,121,600.1       |
| 2012         | 1,252,048          | 26,933,736                    | 464.86                                     | 1,252,048       | 21,002,701.9       |
| 2013         | 1,405,183          | 25,305,794                    | 555.28                                     | 1,405,183       | 21,002,255.9       |
| 2014         | 1,689,982          | 27,605,182                    | 612.2                                      | 1,689,982       | 22,760,831.1       |
| 2015         | 2,185,589          | 33,822,239                    | 646.2                                      | 2,185,589       | 27,664,962.9       |
| 2016         | 2,714,617          | 54,251,585                    | 500.38                                     | 2,714,617       | 32,235,071.7       |
| 2017         | 3,703,062          | 51,237,271                    | 722.73                                     | 3,703,062       | 41,186,815.6       |
| 2018         | 4,115,379          | 53,886,760                    | 763.71                                     | 4,115,379       | 43,113,481.0       |
| 2019         | 4,110,159          | 52,882,182                    | 777.23                                     | 4,110,159       | 42,229,111.4       |
| 2020         | 3,961,821          | 59,579,814                    | 664.96                                     | 3,961,821       | 44,415,343.3       |
| 2021         | 4,973,860          | 58,770,447                    | 846.32                                     | 4,973,860       | 48,839,710.2       |
| 2022         | 2,534,959          | 27,255,993                    | 930.06                                     | 2,534,959       | 21,813,560.8       |
| 2023         | 2,542,112          | 25,734,618                    | 987.82                                     | 2,542,112       | 20,639,559.0       |
| Male         |                    |                               |  |                 |                    |
| 2010         | 294,490            | 15,603,329                    | 188.74                                     | 294,490         | 12,668,651.2       |
| 2011         | 659,198            | 21,441,735                    | 307.44                                     | 659,198         | 17,828,301.6       |
| 2012         | 781,742            | 23,117,358                    | 338.16                                     | 781,742         | 17,856,087.4       |
| 2013         | 914,052            | 21,716,526                    | 420.9                                      | 914,052         | 17,998,266.2       |
| 2014         | 1,145,683          | 24,077,939                    | 475.82                                     | 1,145,683       | 19,815,739.3       |
| 2015         | 1,485,244          | 29,547,102                    | 502.67                                     | 1,485,244       | 24,197,126.1       |
| 2016         | 1,898,926          | 48,175,198                    | 394.17                                     | 1,898,926       | 28,607,273.0       |
| 2017         | 2,566,429          | 45,532,027                    | 563.65                                     | 2,566,429       | 36,782,110.8       |
| 2018         | 2,928,878          | 48,018,684                    | 609.95                                     | 2,928,878       | 38,618,669.8       |
| 2019         | 3,004,202          | 47,157,151                    | 637.06                                     | 3,004,202       | 37,846,700.9       |
| 2020         | 2,919,804          | 53,180,499                    | 549.04                                     | 2,919,804       | 39,858,049.3       |
| 2021         | 3,654,715          | 52,438,261                    | 696.96                                     | 3,654,715       | 43,946,011.4       |
| 2022         | 1,979,497          | 24,447,325                    | 809.7                                      | 1,979,497       | 19,519,335.7       |
| 2023         | 1,993,227          | 23,386,327                    | 852.3                                      | 1,993,227       | 18,745,744.1       |
| Incident ove | rweight            |                               |  |                 |                    |
| Female       |                    |                               |  |                 |                    |
| 2010         | 79,370             | 16,594,952                    | 47.83                                      | 79,370          | 13,758,228.8       |
| 2011         | 205,094            | 25,943,270                    | 79.05                                      | 205,094         | 22,439,126.5       |

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Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Sex and Year

| by Sex and  | rear            |                               |  |                 |                    |
|-------------|-----------------|-------------------------------|--|-----------------|--------------------|
|             | Members with an |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|             | Index Date      | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2012        | 310,632         | 27,814,108                    | 111.68                                     | 310,632         | 22,464,955.8       |
| 2013        | 425,579         | 26,208,684                    | 162.38                                     | 425,579         | 22,617,202.6       |
| 2014        | 613,236         | 28,726,406                    | 213.47                                     | 613,236         | 24,650,134.7       |
| 2015        | 919,417         | 35,266,631                    | 260.7                                      | 919,417         | 29,981,868.2       |
| 2016        | 1,292,685       | 57,056,237                    | 226.56                                     | 1,292,685       | 34,998,562.8       |
| 2017        | 1,891,779       | 53,669,551                    | 352.49                                     | 1,891,779       | 44,811,043.8       |
| 2018        | 2,191,590       | 56,709,397                    | 386.46                                     | 2,191,590       | 47,169,058.3       |
| 2019        | 2,242,917       | 55,908,794                    | 401.17                                     | 2,242,917       | 46,455,264.5       |
| 2020        | 1,929,950       | 63,086,358                    | 305.92                                     | 1,929,950       | 48,867,210.8       |
| 2021        | 2,386,412       | 62,026,575                    | 384.74                                     | 2,386,412       | 53,893,803.1       |
| 2022        | 1,556,841       | 29,699,520                    | 524.2                                      | 1,556,841       | 24,776,106.3       |
| 2023        | 1,619,258       | 28,238,691                    | 573.42                                     | 1,619,258       | 23,602,338.4       |
| Male        |                 |                               |  |                 |                    |
| 2010        | 56,710          | 15,750,022                    | 36.01                                      | 56,710          | 12,983,626.0       |
| 2011        | 146,095         | 21,797,557                    | 67.02                                      | 146,095         | 18,559,327.7       |
| 2012        | 230,344         | 23,612,885                    | 97.55                                      | 230,344         | 18,681,027.3       |
| 2013        | 331,721         | 22,217,023                    | 149.31                                     | 331,721         | 18,924,103.3       |
| 2014        | 492,174         | 24,720,583                    | 199.09                                     | 492,174         | 20,929,550.2       |
| 2015        | 741,594         | 30,357,851                    | 244.28                                     | 741,594         | 25,528,346.6       |
| 2016        | 1,067,477       | 49,691,777                    | 214.82                                     | 1,067,477       | 30,178,001.4       |
| 2017        | 1,547,439       | 46,859,783                    | 330.23                                     | 1,547,439       | 38,792,816.0       |
| 2018        | 1,812,790       | 49,557,742                    | 365.79                                     | 1,812,790       | 40,871,477.5       |
| 2019        | 1,882,241       | 48,853,596                    | 385.28                                     | 1,882,241       | 40,271,138.5       |
| 2020        | 1,650,119       | 55,145,490                    | 299.23                                     | 1,650,119       | 42,489,109.6       |
| 2021        | 2,026,297       | 54,305,399                    | 373.13                                     | 2,026,297       | 46,959,921.9       |
| 2022        | 1,381,803       | 25,893,442                    | 533.65                                     | 1,381,803       | 21,306,508.0       |
| 2023        | 1,421,006       | 24,864,156                    | 571.51                                     | 1,421,006       | 20,534,085.9       |
| Incident sm | oking           |                               |  |                 |                    |
| Female      |                 |                               |  |                 |                    |
| 2010        | 434,095         | 16,333,403                    | 265.77                                     | 434,095         | 13,259,872.5       |
| 2011        | 1,203,017       | 25,117,451                    | 478.96                                     | 1,203,017       | 20,662,078.5       |
| 2012        | 1,358,305       | 26,795,014                    | 506.92                                     | 1,358,305       | 20,800,659.8       |
| 2013        | 1,484,329       | 25,201,846                    | 588.98                                     | 1,484,329       | 20,848,721.0       |
| 2014        | 1,813,751       | 27,577,761                    | 657.69                                     | 1,813,751       | 22,656,985.2       |
| 2015        | 2,210,251       | 33,883,051                    | 652.32                                     | 2,210,251       | 27,715,499.4       |
| 2016        | 2,654,557       | 54,587,188                    | 486.3                                      | 2,654,557       | 32,271,482.1       |
|             |                 |                               |  |                 |                    |

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Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Sex and Year

| by Sex and   | Year                 |                               |  |                 |                    |
|--------------|----------------------|-------------------------------|--|-----------------|--------------------|
|              | Members with an      |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|              | Index Date           | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| 2017         | 3,203,868            | 51,559,550                    | 621.39                                     | 3,203,868       | 41,781,802.4       |
| 2018         | 3,407,503            | 54,605,182                    | 624.03                                     | 3,407,503       | 44,282,287.7       |
| 2019         | 3,426,163            | 53,894,200                    | 635.72                                     | 3,426,163       | 43,785,556.2       |
| 2020         | 2,975,354            | 60,893,364                    | 488.62                                     | 2,975,354       | 46,230,104.2       |
| 2021         | 3,548,647            | 60,237,550                    | 589.11                                     | 3,548,647       | 51,355,517.2       |
| 2022         | 2,097,927            | 28,664,920                    | 731.88                                     | 2,097,927       | 23,434,658.2       |
| 2023         | 2,013,427            | 27,272,554                    | 738.26                                     | 2,013,427       | 22,431,282.8       |
| Male         |                      |                               |  |                 |                    |
| 2010         | 444,623              | 15,514,472                    | 286.59                                     | 444,623         | 12,488,130.6       |
| 2011         | 1,186,989            | 21,056,270                    | 563.72                                     | 1,186,989       | 16,934,995.9       |
| 2012         | 1,349,756            | 22,658,202                    | 595.7                                      | 1,349,756       | 17,060,520.6       |
| 2013         | 1,500,432            | 21,285,894                    | 704.89                                     | 1,500,432       | 17,164,179.8       |
| 2014         | 1,832,719            | 23,621,421                    | 775.87                                     | 1,832,719       | 18,898,739.2       |
| 2015         | 2,181,173            | 29,051,915                    | 750.78                                     | 2,181,173       | 23,270,250.1       |
| 2016         | 2,606,621            | 47,466,199                    | 549.15                                     | 2,606,621       | 27,507,433.8       |
| 2017         | 3,076,337            | 44,862,097                    | 685.73                                     | 3,076,337       | 35,774,506.0       |
| 2018         | 3,262,978            | 47,523,006                    | 686.61                                     | 3,262,978       | 37,929,265.5       |
| 2019         | 3,316,779            | 46,847,703                    | 707.99                                     | 3,316,779       | 37,455,454.8       |
| 2020         | 2,939,176            | 52,910,977                    | 555.49                                     | 2,939,176       | 39,693,104.0       |
| 2021         | 3,433,177            | 52,424,610                    | 654.88                                     | 3,433,177       | 44,198,063.3       |
| 2022         | 2,259,575            | 24,658,244                    | 916.36                                     | 2,259,575       | 19,531,094.2       |
| 2023         | 2,206,218            | 23,657,115                    | 932.58                                     | 2,206,218       | 18,849,124.0       |
| Incident ald | cohol abuse or depen | ndence                        |  |                 |                    |
| Female       |                      |                               |  |                 |                    |
| 2010         | 56,524               | 16,586,784                    | 34.08                                      | 56,524          | 13,770,703.2       |
| 2011         | 142,405              | 25,906,625                    | 54.97                                      | 142,405         | 22,436,280.7       |
| 2012         | 149,677              | 27,820,773                    | 53.8                                       | 149,677         | 22,554,667.1       |
| 2013         | 156,507              | 26,259,381                    | 59.6                                       | 156,507         | 22,843,741.9       |
| 2014         | 172,333              | 28,860,716                    | 59.71                                      | 172,333         | 25,083,109.4       |
| 2015         | 232,394              | 35,516,324                    | 65.43                                      | 232,394         | 30,706,268.4       |
| 2016         | 300,313              | 57,758,828                    | 51.99                                      | 300,313         | 36,080,943.1       |
| 2017         | 399,246              | 54,329,505                    | 73.49                                      | 399,246         | 46,502,438.2       |
| 2018         | 446,790              | 57,680,291                    | 77.46                                      | 446,790         | 49,464,328.2       |
| 2019         | 448,202              | 57,040,756                    | 78.58                                      | 448,202         | 49,045,227.8       |
| 2020         | 424,660              | 64,342,339                    | 66   | 424,660         | 51,387,064.5       |
| 2021         | 491,454              | 62,990,787                    | 78.02                                      | 491,454         | 56,388,297.7       |
|              |                      |                               |  |                 |                    |

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Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Sex and Year

| by Sex and  | Teal                          |                               |  |                                |                                       |
|-------------|-------------------------------|-------------------------------|--|--------------------------------|---------------------------------------|
|             | Members with an<br>Index Date | Eligible Members <sup>1</sup> | Number of Members with an Index Date per 10K Eligible Members <sup>1</sup> | Total Number of<br>Index Dates | Eligible Member<br>Years <sup>1</sup> |
| 2022        | 231,695                       | 30,796,461                    | 75.23  | 231,695                        | 26,954,719.8                          |
| 2023        | 254,223                       | 29,365,193                    | 86.57  | 254,223                        | 25,817,044.2                          |
| Male        |                               |                               |  |                                |                                       |
| 2010        | 102,099                       | 15,705,419                    | 65.01  | 102,099                        | 12,915,508.2                          |
| 2011        | 257,185                       | 21,653,997                    | 118.77   | 257,185                        | 18,335,410.0                          |
| 2012        | 272,489                       | 23,480,205                    | 116.05   | 272,489                        | 18,512,964.6                          |
| 2013        | 284,644                       | 22,129,685                    | 128.63   | 284,644                        | 18,856,384.3                          |
| 2014        | 315,512                       | 24,692,752                    | 127.78   | 315,512                        | 21,020,526.5                          |
| 2015        | 390,337                       | 30,391,815                    | 128.43   | 390,337                        | 25,817,733.6                          |
| 2016        | 470,583                       | 49,883,879                    | 94.34  | 470,583                        | 30,709,728.7                          |
| 2017        | 601,883                       | 47,102,179                    | 127.78   | 601,883                        | 39,707,107.9                          |
| 2018        | 664,610                       | 50,030,543                    | 132.84   | 664,610                        | 42,258,029.7                          |
| 2019        | 672,623                       | 49,465,944                    | 135.98   | 672,623                        | 41,924,368.0                          |
| 2020        | 631,041                       | 55,813,225                    | 113.06   | 631,041                        | 44,108,888.9                          |
| 2021        | 737,461                       | 54,794,201                    | 134.59   | 737,461                        | 48,532,646.9                          |
| 2022        | 394,283                       | 26,700,815                    | 147.67   | 394,283                        | 22,957,304.0                          |
| 2023        | 432,450                       | 25,680,939                    | 168.39   | 432,450                        | 22,185,741.0                          |
| Incident dr | ug abuse or depende           | nce                           |  |                                |                                       |
| Female      |                               |                               |  |                                |                                       |
| 2010        | 64,595                        | 16,589,229                    | 38.94  | 64,595                         | 13,769,141.4                          |
| 2011        | 197,765                       | 25,887,393                    | 76.39  | 197,765                        | 22,373,981.2                          |
| 2012        | 216,957                       | 27,791,197                    | 78.07  | 216,957                        | 22,475,690.9                          |
| 2013        | 229,982                       | 26,226,365                    | 87.69  | 229,982                        | 22,751,998.8                          |
| 2014        | 264,818                       | 28,825,351                    | 91.87  | 264,818                        | 24,976,745.0                          |
| 2015        | 352,595                       | 35,457,774                    | 99.44  | 352,595                        | 30,542,907.2                          |
| 2016        | 380,130                       | 57,671,679                    | 65.91  | 380,130                        | 35,939,555.5                          |
| 2017        | 559,374                       | 54,297,671                    | 103.02   | 559,374                        | 46,351,376.3                          |
| 2018        | 638,350                       | 57,626,401                    | 110.77   | 638,350                        | 49,258,848.0                          |
| 2019        | 641,902                       | 56,979,827                    | 112.65   | 641,902                        | 48,826,944.9                          |
| 2020        | 613,536                       | 64,230,827                    | 95.52  | 613,536                        | 51,148,542.5                          |
| 2021        | 714,150                       | 62,924,612                    | 113.49   | 714,150                        | 56,120,807.5                          |
| 2022        | 271,218                       | 30,802,265                    | 88.05  | 271,218                        | 26,923,869.1                          |
| 2023        | 255,689                       | 29,386,442                    | 87.01  | 255,689                        | 25,825,115.0                          |
| Male        |                               |                               |  |                                |                                       |
| 2010        | 69,910                        | 15,731,288                    | 44.44  | 69,910                         | 12,963,795.8                          |
| 2011        | 199,426                       | 21,709,039                    | 91.86  | 199,426                        | 18,426,299.2                          |

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Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Sex and Year

| by Sex and   | Year                 |                               |  |                     |                    |
|--------------|----------------------|-------------------------------|--|---------------------|--------------------|
|              | Members with an      |                               | Number of Members with an Index            | Total Number of     | Eligible Member    |
|              | Index Date           | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates         | Years <sup>1</sup> |
| 2012         | 217,231              | 23,541,559                    | 92.28                                      | 217,231             | 18,599,092.5       |
| 2013         | 231,503              | 22,183,405                    | 104.36                                     | 231,503             | 18,942,294.7       |
| 2014         | 262,571              | 24,754,000                    | 106.07                                     | 262,571             | 21,113,317.2       |
| 2015         | 335,486              | 30,459,958                    | 110.14                                     | 335,486             | 25,900,732.4       |
| 2016         | 368,713              | 50,034,040                    | 73.69                                      | 368,713             | 30,857,130.1       |
| 2017         | 558,638              | 47,267,484                    | 118.19                                     | 558,638             | 39,889,905.5       |
| 2018         | 637,645              | 50,195,530                    | 127.03                                     | 637,645             | 42,417,533.1       |
| 2019         | 653,391              | 49,625,255                    | 131.67                                     | 653,391             | 42,072,675.8       |
| 2020         | 618,264              | 55,974,781                    | 110.45                                     | 618,264             | 44,237,208.4       |
| 2021         | 730,483              | 54,958,365                    | 132.92                                     | 730,483             | 48,656,667.9       |
| 2022         | 278,646              | 26,857,271                    | 103.75                                     | 278,646             | 23,175,555.1       |
| 2023         | 275,988              | 25,855,192                    | 106.74                                     | 275,988             | 22,446,983.9       |
| Incident his | tory of Coronary Art | erial Bypass Graft (C         | ABG) or Percutaneous Transluminal Cu       | ıtaneous Angioplası | ty (PTCA)          |
| Female       |                      |                               |  |                     |                    |
| 2010         | 49,750               | 16,583,542                    | 30   | 49,750              | 13,766,699.8       |
| 2011         | 355,485              | 25,743,705                    | 138.09                                     | 355,485             | 22,120,880.4       |
| 2012         | 338,816              | 27,609,098                    | 122.72                                     | 338,816             | 22,209,456.9       |
| 2013         | 335,675              | 26,067,124                    | 128.77                                     | 335,675             | 22,506,916.9       |
| 2014         | 365,552              | 28,659,999                    | 127.55                                     | 365,552             | 24,727,594.1       |
| 2015         | 399,141              | 35,335,747                    | 112.96                                     | 399,141             | 30,400,879.2       |
| 2016         | 423,552              | 57,729,838                    | 73.37                                      | 423,552             | 35,812,423.6       |
| 2017         | 412,973              | 54,195,014                    | 76.2                                       | 412,973             | 46,359,621.6       |
| 2018         | 414,500              | 57,566,077                    | 72   | 414,500             | 49,366,441.3       |
| 2019         | 425,670              | 56,935,781                    | 74.76                                      | 425,670             | 48,960,546.2       |
| 2020         | 360,633              | 64,285,483                    | 56.1                                       | 360,633             | 51,345,813.8       |
| 2021         | 379,886              | 62,946,618                    | 60.35                                      | 379,886             | 56,447,025.2       |
| 2022         | 330,352              | 30,590,658                    | 107.99                                     | 330,352             | 26,674,480.2       |
| 2023         | 317,941              | 29,176,785                    | 108.97                                     | 317,941             | 25,570,192.4       |
| Male         |                      |                               |  |                     |                    |
| 2010         | 123,357              | 15,672,309                    | 78.71                                      | 123,357             | 12,855,825.9       |
| 2011         | 506,706              | 21,439,988                    | 236.34                                     | 506,706             | 17,928,373.7       |
| 2012         | 506,059              | 23,182,810                    | 218.29                                     | 506,059             | 18,064,041.6       |
| 2013         | 528,449              | 21,864,709                    | 241.69                                     | 528,449             | 18,389,547.1       |
| 2014         | 605,581              | 24,380,754                    | 248.38                                     | 605,581             | 20,465,637.5       |
| 2015         | 691,848              | 30,096,766                    | 229.87                                     | 691,848             | 25,290,855.6       |
| 2016         | 747,198              | 49,736,289                    | 150.23                                     | 747,198             | 30,152,269.0       |

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Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Sex and Year

| Members with an Number of Members with an Index Total Number of       | Eligible Member    |
|---|--------------------|
| Index Date Eligible Members Date per 10K Eligible Members Index Dates | Years <sup>1</sup> |
| 2017 730,792 46,814,719 156.1 730,792                                 | 39,285,645.9       |
| 2018 739,138 49,753,103 148.56 739,138                                | 41,873,331.0       |
| 2019 757,770 49,180,069 154.08 757,770                                | 41,530,302.6       |
| 2020 685,035 55,577,707 123.26 685,035                                | 43,756,993.3       |
| 2021 742,598 54,570,721 136.08 742,598                                | 48,297,624.4       |
| 2022 661,744 26,170,083 252.86 661,744                                | 22,202,779.3       |
| 2023 646,055 25,174,155 256.63 646,055                                | 21,481,565.8       |
| Incident history of sudden cardiac arrest                             |                    |
| Female  |                    |
| 2010 10,599 16,618,832 6.38 10,599                                    | 13,836,383.6       |
| 2011 81,546 25,985,430 31.38 81,546                                   | 22,598,712.3       |
| 2012 84,161 27,918,238 30.15 84,161                                   | 22,731,760.1       |
| 2013 88,801 26,351,899 33.7 88,801                                    | 23,031,228.1       |
| 2014 95,813 28,964,348 33.08 95,813                                   | 25,288,298.5       |
| 2015 102,110 35,652,630 28.64 102,110                                 | 30,974,029.6       |
| 2016 107,552 58,140,514 18.5 107,552                                  | 36,456,640.5       |
| 2017 123,850 54,607,545 22.68 123,850                                 | 47,033,942.5       |
| 2018 119,824 57,991,924 20.66 119,824                                 | 50,053,740.4       |
| 2019 116,254 57,371,050 20.26 116,254                                 | 49,659,194.2       |
| 2020 130,889 64,740,816 20.22 130,889                                 | 52,015,157.1       |
| 2021 134,478 63,330,027 21.23 134,478                                 | 57,062,057.4       |
| 2022 95,253 30,964,851 30.76 95,253                                   | 27,257,886.2       |
| 2023 84,752 29,541,465 28.69 84,752                                   | 26,139,892.9       |
| Male  |                    |
| 2010 15,413 15,765,111 9.78 15,413                                    | 13,035,476.8       |
| 2011 80,194 21,822,810 36.75 80,194                                   | 18,660,543.1       |
| 2012 85,219 23,687,471 35.98 85,219                                   | 18,866,547.3       |
| 2013 91,227 22,326,487 40.86 91,227                                   | 19,230,982.7       |
| 2014 103,669 24,912,145 41.61 103,669                                 | 21,429,807.2       |
| 2015 112,289 30,670,412 36.61 112,289                                 | 26,314,300.6       |
| 2016 120,682 50,541,540 23.88 120,682                                 | 31,354,178.8       |
| 2017 142,674 47,633,280 29.95 142,674                                 | 40,586,932.4       |
| 2018 142,790 50,620,328 28.21 142,790                                 | 43,225,938.5       |
| 2019 141,434 50,082,666 28.24 141,434                                 | 42,923,891.6       |
| 2020 162,304 56,554,702 28.7 162,304                                  | 45,132,633.5       |
| 2021 171,435 55,433,010 30.93 171,435                                 | 49,634,835.0       |

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Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Sex and Year

|              | Members with an Index Date Eligible Members <sup>1</sup> |                | Number of Members with an Index Date per 10K Eligible Members <sup>1</sup> | 1000       |                                 |
|--------------|--|----------------|--|------------|---------------------------------|
| 2022         | 120,258  | 27,029,201     | 44.49  | 120,258    | Years <sup>1</sup> 23,504,542.3 |
| 2023         | 110,248  | 26,025,708     | 42.36  | 110,248    | 22,773,201.1                    |
| Prevalent C  | apture of Confound                                       | ing Conditions |  |            |                                 |
| Prevalent of | pesity   |                |  |            |                                 |
| Female       |  |                |  |            |                                 |
| 2010         | 644,704  | 16,620,072     | 387.91   | 1,367,099  | 13,840,352.2                    |
| 2011         | 1,651,335  | 25,991,937     | 635.33   | 4,326,029  | 22,622,132.8                    |
| 2012         | 1,934,775  | 27,927,482     | 692.79   | 5,152,468  | 22,756,885.4                    |
| 2013         | 2,261,023  | 26,360,038     | 857.75   | 6,096,706  | 23,057,766.4                    |
| 2014         | 2,811,229  | 28,973,575     | 970.27   | 7,688,305  | 25,317,582.6                    |
| 2015         | 3,693,359  | 35,663,779     | 1,035.61   | 10,068,640 | 31,006,886.6                    |
| 2016         | 4,689,134  | 58,160,484     | 806.24   | 13,304,251 | 36,493,562.2                    |
| 2017         | 6,490,320  | 54,623,746     | 1,188.19   | 18,210,248 | 47,081,763.0                    |
| 2018         | 7,546,805  | 58,009,789     | 1,300.95   | 21,386,853 | 50,103,433.5                    |
| 2019         | 7,886,507  | 57,389,186     | 1,374.21   | 22,860,618 | 49,706,143.7                    |
| 2020         | 7,667,340  | 64,764,344     | 1,183.88   | 21,199,991 | 52,063,017.4                    |
| 2021         | 8,895,083  | 63,349,537     | 1,404.13   | 25,127,337 | 57,111,424.1                    |
| 2022         | 5,794,081  | 30,980,722     | 1,870.22   | 19,004,327 | 27,294,523.5                    |
| 2023         | 5,918,095  | 29,556,919     | 2,002.27   | 20,138,653 | 26,175,809.1                    |
| Male         |  |                |  |            |                                 |
| 2010         | 401,278  | 15,767,023     | 254.5  | 755,276    | 13,041,136.8                    |
| 2011         | 954,817  | 21,830,145     | 437.38   | 2,281,431  | 18,684,184.1                    |
| 2012         | 1,158,647  | 23,698,652     | 488.91   | 2,807,884  | 18,893,110.7                    |
| 2013         | 1,407,217  | 22,336,232     | 630.02   | 3,466,194  | 19,260,324.7                    |
| 2014         | 1,826,587  | 24,923,770     | 732.87   | 4,530,959  | 21,463,484.2                    |
| 2015         | 2,406,876  | 30,684,795     | 784.39   | 5,973,068  | 26,353,043.8                    |
| 2016         | 3,121,873  | 50,568,118     | 617.36   | 8,013,849  | 31,398,752.1                    |
| 2017         | 4,304,459  | 47,655,204     | 903.25   | 10,901,419 | 40,643,876.5                    |
| 2018         | 5,101,772  | 50,645,139     | 1,007.36   | 13,034,670 | 43,286,882.2                    |
| 2019         | 5,463,257  | 50,108,292     | 1,090.29   | 14,263,889 | 42,984,175.6                    |
| 2020         | 5,370,227  | 56,588,187     | 949  | 13,380,412 | 45,195,412.4                    |
| 2021         | 6,235,352  | 55,461,179     | 1,124.27   | 15,648,086 | 49,701,517.2                    |
| 2022         | 4,231,085  | 27,052,770     | 1,564.01   | 12,391,289 | 23,555,669.3                    |
| 2023         | 4,316,926  | 26,049,118     | 1,657.23   | 12,882,850 | 22,824,497.1                    |
| Prevalent ov | verweight  |                |  |            |                                 |

Female

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Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Sex and Year

| by Sex and   | Tear            |                               |  |                        |                    |
|--------------|-----------------|-------------------------------|--|------------------------|--------------------|
|              | Members with an |                               | Number of Members with an Index            | <b>Total Number of</b> | Eligible Member    |
|              | Index Date      | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates            | Years <sup>1</sup> |
| 2010         | 90,897          | 16,620,072                    | 54.69                                      | 129,305                | 13,840,352.2       |
| 2011         | 231,038         | 25,991,937                    | 88.89                                      | 334,905                | 22,622,132.8       |
| 2012         | 363,822         | 27,927,482                    | 130.27                                     | 581,781                | 22,756,885.4       |
| 2013         | 530,320         | 26,360,038                    | 201.18                                     | 893,775                | 23,057,766.4       |
| 2014         | 790,571         | 28,973,575                    | 272.86                                     | 1,379,357              | 25,317,582.6       |
| 2015         | 1,210,511       | 35,663,779                    | 339.42                                     | 2,144,093              | 31,006,886.6       |
| 2016         | 1,737,162       | 58,160,484                    | 298.68                                     | 3,243,214              | 36,493,562.2       |
| 2017         | 2,615,902       | 54,623,746                    | 478.89                                     | 4,917,301              | 47,081,763.0       |
| 2018         | 3,205,036       | 58,009,789                    | 552.5                                      | 6,198,986              | 50,103,433.5       |
| 2019         | 3,409,222       | 57,389,186                    | 594.05                                     | 6,744,273              | 49,706,143.7       |
| 2020         | 3,026,549       | 64,764,344                    | 467.32                                     | 5,538,583              | 52,063,017.4       |
| 2021         | 3,451,940       | 63,349,537                    | 544.9                                      | 6,500,953              | 57,111,424.1       |
| 2022         | 2,617,089       | 30,980,722                    | 844.75                                     | 5,551,814              | 27,294,523.5       |
| 2023         | 2,717,896       | 29,556,919                    | 919.55                                     | 5,864,490              | 26,175,809.1       |
| Male         |                 |                               |  |                        |                    |
| 2010         | 64,267          | 15,767,023                    | 40.76                                      | 84,644                 | 13,041,136.8       |
| 2011         | 163,038         | 21,830,145                    | 74.68                                      | 228,046                | 18,684,184.1       |
| 2012         | 269,756         | 23,698,652                    | 113.83                                     | 427,343                | 18,893,110.7       |
| 2013         | 414,750         | 22,336,232                    | 185.68                                     | 691,354                | 19,260,324.7       |
| 2014         | 638,316         | 24,923,770                    | 256.11                                     | 1,093,181              | 21,463,484.2       |
| 2015         | 982,071         | 30,684,795                    | 320.05                                     | 1,693,756              | 26,353,043.8       |
| 2016         | 1,438,291       | 50,568,118                    | 284.43                                     | 2,609,814              | 31,398,752.1       |
| 2017         | 2,151,820       | 47,655,204                    | 451.54                                     | 3,952,930              | 40,643,876.5       |
| 2018         | 2,658,357       | 50,645,139                    | 524.9                                      | 5,029,777              | 43,286,882.2       |
| 2019         | 2,869,356       | 50,108,292                    | 572.63                                     | 5,557,709              | 42,984,175.6       |
| 2020         | 2,592,902       | 56,588,187                    | 458.21                                     | 4,686,644              | 45,195,412.4       |
| 2021         | 2,953,721       | 55,461,179                    | 532.57                                     | 5,468,398              | 49,701,517.2       |
| 2022         | 2,335,856       | 27,052,770                    | 863.44                                     | 4,806,253              | 23,555,669.3       |
| 2023         | 2,404,668       | 26,049,118                    | 923.13                                     | 4,994,799              | 22,824,497.1       |
| Prevalent sr | moking          |                               |  |                        |                    |
| Female       |                 |                               |  |                        |                    |
| 2010         | 614,903         | 16,620,072                    | 369.98                                     | 1,106,427              | 13,840,352.2       |
| 2011         | 1,878,627       | 25,991,937                    | 722.77                                     | 4,293,429              | 22,622,132.8       |
| 2012         | 2,151,587       | 27,927,482                    | 770.42                                     | 5,141,018              | 22,756,885.4       |
| 2013         | 2,422,025       | 26,360,038                    | 918.82                                     | 6,034,750              | 23,057,766.4       |
| 2014         | 2,957,952       | 28,973,575                    | 1,020.91                                   | 7,535,670              | 25,317,582.6       |
|              |                 |                               |  |                        |                    |

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Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Sex and Year

| by Sex and  | rear                       |                               |  |                             |                                       |
|-------------|----------------------------|-------------------------------|--|-----------------------------|---------------------------------------|
|             | Members with an Index Date | Eligible Members <sup>1</sup> | Number of Members with an Index Date per 10K Eligible Members <sup>1</sup> | Total Number of Index Dates | Eligible Member<br>Years <sup>1</sup> |
| 2015        | 3,654,001                  | 35,663,779                    | 1,024.57   | 9,433,436                   | 31,006,886.6                          |
| 2015        |                            |                               | 788.41   |                             |                                       |
|             | 4,585,426                  | 58,160,484                    |  | 12,640,351                  | 36,493,562.2                          |
| 2017        | 5,676,779                  | 54,623,746                    | 1,039.25   | 15,666,545                  | 47,081,763.0                          |
| 2018        | 6,166,748                  | 58,009,789                    | 1,063.05   | 17,281,871                  | 50,103,433.5                          |
| 2019        | 6,279,441                  | 57,389,186                    | 1,094.19   | 18,177,994                  | 49,706,143.7                          |
| 2020        | 5,685,605                  | 64,764,344                    | 877.89   | 16,159,055                  | 52,063,017.4                          |
| 2021        | 6,147,969                  | 63,349,537                    | 970.48   | 17,273,638                  | 57,111,424.1                          |
| 2022        | 4,072,468                  | 30,980,722                    | 1,314.52   | 12,619,866                  | 27,294,523.5                          |
| 2023        | 3,979,209                  | 29,556,919                    | 1,346.29   | 12,496,242                  | 26,175,809.1                          |
| Male        |                            |                               |  |                             |                                       |
| 2010        | 589,777                    | 15,767,023                    | 374.06   | 1,012,618                   | 13,041,136.8                          |
| 2011        | 1,761,635                  | 21,830,145                    | 806.97   | 3,960,368                   | 18,684,184.1                          |
| 2012        | 2,031,462                  | 23,698,652                    | 857.21   | 4,761,075                   | 18,893,110.7                          |
| 2013        | 2,324,335                  | 22,336,232                    | 1,040.61   | 5,664,935                   | 19,260,324.7                          |
| 2014        | 2,866,075                  | 24,923,770                    | 1,149.94   | 7,134,683                   | 21,463,484.2                          |
| 2015        | 3,470,886                  | 30,684,795                    | 1,131.14   | 8,852,781                   | 26,353,043.8                          |
| 2016        | 4,304,564                  | 50,568,118                    | 851.24   | 11,794,069                  | 31,398,752.1                          |
| 2017        | 5,274,816                  | 47,655,204                    | 1,106.87   | 14,629,669                  | 40,643,876.5                          |
| 2018        | 5,738,477                  | 50,645,139                    | 1,133.08   | 16,356,871                  | 43,286,882.2                          |
| 2019        | 5,933,248                  | 50,108,292                    | 1,184.09   | 17,620,213                  | 42,984,175.6                          |
| 2020        | 5,485,269                  | 56,588,187                    | 969.33   | 16,119,912                  | 45,195,412.4                          |
| 2021        | 5,933,358                  | 55,461,179                    | 1,069.82   | 17,260,026                  | 49,701,517.2                          |
| 2022        | 4,281,192                  | 27,052,770                    | 1,582.53   | 13,240,057                  | 23,555,669.3                          |
| 2023        | 4,248,048                  | 26,049,118                    | 1,630.78   | 13,262,831                  | 22,824,497.1                          |
| Prevalent a | lcohol abuse or depe       | endence                       |  |                             |                                       |
| Female      |                            |                               |  |                             |                                       |
| 2010        | 76,283                     | 16,620,072                    | 45.9   | 320,065                     | 13,840,352.2                          |
| 2011        | 203,848                    | 25,991,937                    | 78.43  | 922,902                     | 22,622,132.8                          |
| 2012        | 217,662                    | 27,927,482                    | 77.94  | 996,853                     | 22,756,885.4                          |
| 2013        | 230,920                    | 26,360,038                    | 87.6   | 1,075,042                   | 23,057,766.4                          |
| 2014        | 255,756                    | 28,973,575                    | 88.27  | 1,198,061                   | 25,317,582.6                          |
| 2015        | 338,805                    | 35,663,779                    | 95   | 1,627,746                   | 31,006,886.6                          |
| 2016        | 444,830                    | 58,160,484                    | 76.48  | 2,497,072                   | 36,493,562.2                          |
| 2017        | 612,022                    | 54,623,746                    | 112.04   | 3,894,278                   | 47,081,763.0                          |
| 2018        | 688,390                    | 58,009,789                    | 118.67   | 4,582,718                   | 50,103,433.5                          |
| 2019        | 707,319                    | 57,389,186                    | 123.25   | 4,943,759                   | 49,706,143.7                          |
|             |                            |                               |  |                             |                                       |

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Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Sex and Year

|              |                     |                               | Number of Members with an Index            | Total Number of | Eligible Member    |  |
|--------------|---------------------|-------------------------------|--|-----------------|--------------------|--|
|              | Index Date          | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |  |
| 2020         | 695,391             | 64,764,344                    | 107.37                                     | 5,211,693       | 52,063,017.4       |  |
| 2021         | 780,078             | 63,349,537                    | 123.14                                     | 5,912,873       | 57,111,424.1       |  |
| 2022         | 375,362             | 30,980,722                    | 121.16                                     | 1,869,107       | 27,294,523.5       |  |
| 2023         | 404,351             | 29,556,919                    | 136.8                                      | 1,896,076       | 26,175,809.1       |  |
| Male         |                     |                               |  |                 |                    |  |
| 2010         | 138,890             | 15,767,023                    | 88.09                                      | 544,046         | 13,041,136.8       |  |
| 2011         | 386,708             | 21,830,145                    | 177.14                                     | 1,815,035       | 18,684,184.1       |  |
| 2012         | 415,078             | 23,698,652                    | 175.15                                     | 1,988,076       | 18,893,110.7       |  |
| 2013         | 440,199             | 22,336,232                    | 197.08                                     | 2,143,083       | 19,260,324.7       |  |
| 2014         | 488,116             | 24,923,770                    | 195.84                                     | 2,378,917       | 21,463,484.2       |  |
| 2015         | 603,800             | 30,684,795                    | 196.77                                     | 3,007,551       | 26,353,043.8       |  |
| 2016         | 747,954             | 50,568,118                    | 147.91                                     | 4,324,822       | 31,398,752.1       |  |
| 2017         | 1,002,364           | 47,655,204                    | 210.34                                     | 6,701,584       | 40,643,876.5       |  |
| 2018         | 1,116,302           | 50,645,139                    | 220.42                                     | 7,895,652       | 43,286,882.2       |  |
| 2019         | 1,150,086           | 50,108,292                    | 229.52                                     | 8,474,279       | 42,984,175.6       |  |
| 2020         | 1,127,763           | 56,588,187                    | 199.29                                     | 8,635,716       | 45,195,412.4       |  |
| 2021         | 1,265,860           | 55,461,179                    | 228.24                                     | 10,066,618      | 49,701,517.2       |  |
| 2022         | 670,687             | 27,052,770                    | 247.92                                     | 3,350,514       | 23,555,669.3       |  |
| 2023         | 723,865             | 26,049,118                    | 277.88                                     | 3,425,556       | 22,824,497.1       |  |
| Prevalent di | rug abuse or depena | lence                         |  |                 |                    |  |
| Female       |                     |                               |  |                 |                    |  |
| 2010         | 81,221              | 16,620,072                    | 48.87                                      | 214,115         | 13,840,352.2       |  |
| 2011         | 271,047             | 25,991,937                    | 104.28                                     | 858,058         | 22,622,132.8       |  |
| 2012         | 303,944             | 27,927,482                    | 108.83                                     | 981,365         | 22,756,885.4       |  |
| 2013         | 326,433             | 26,360,038                    | 123.84                                     | 1,083,255       | 23,057,766.4       |  |
| 2014         | 371,547             | 28,973,575                    | 128.24                                     | 1,201,455       | 25,317,582.6       |  |
| 2015         | 492,604             | 35,663,779                    | 138.12                                     | 1,513,314       | 31,006,886.6       |  |
| 2016         | 521,983             | 58,160,484                    | 89.75                                      | 2,028,090       | 36,493,562.2       |  |
| 2017         | 775,546             | 54,623,746                    | 141.98                                     | 3,325,501       | 47,081,763.0       |  |
| 2018         | 896,359             | 58,009,789                    | 154.52                                     | 4,024,585       | 50,103,433.5       |  |
| 2019         | 922,602             | 57,389,186                    | 160.76                                     | 4,287,920       | 49,706,143.7       |  |
| 2020         | 912,796             | 64,764,344                    | 140.94                                     | 4,337,054       | 52,063,017.4       |  |
| 2021         | 1,034,786           | 63,349,537                    | 163.35                                     | 4,714,265       | 57,111,424.1       |  |
| 2022         | 398,947             | 30,980,722                    | 128.77                                     | 1,239,014       | 27,294,523.5       |  |
| 2023         | 375,894             | 29,556,919                    | 127.18                                     | 1,097,911       | 26,175,809.1       |  |
| Male         |                     |                               |  |                 |                    |  |

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Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Sex and Year

|              | Members with an Index Date Eligible Members 1 |            | Number of Members with an Index Date per 10K Eligible Members <sup>1</sup> | Total Number of Index Dates | Eligible Member<br>Years <sup>1</sup> |  |
|--------------|---|------------|--|-----------------------------|---------------------------------------|--|
| 2010         | 88,728  | 15,767,023 | 56.27  | 280,639                     | 13,041,136.8                          |  |
| 2011         | 284,567                                       | 21,830,145 | 130.36   | 1,089,525                   | 18,684,184.1                          |  |
| 2012         | 317,310                                       | 23,698,652 | 133.89   | 1,253,388                   | 18,893,110.7                          |  |
| 2013         | 342,131                                       | 22,336,232 | 153.17   | 1,382,468                   | 19,260,324.7                          |  |
| 2014         | 383,468                                       | 24,923,770 | 153.86   | 1,511,666                   | 21,463,484.2                          |  |
| 2015         | 485,482                                       | 30,684,795 | 158.22   | 1,736,925                   | 26,353,043.8                          |  |
| 2016         | 522,910                                       | 50,568,118 | 103.41   | 2,162,420                   | 31,398,752.1                          |  |
| 2017         | 803,890                                       | 47,655,204 | 168.69   | 3,646,898                   | 40,643,876.5                          |  |
| 2018         | 928,258                                       | 50,645,139 | 183.29   | 4,510,239                   | 43,286,882.2                          |  |
| 2019         | 972,322                                       | 50,108,292 | 194.04   | 4,889,616                   | 42,984,175.6                          |  |
| 2020         | 961,277                                       | 56,588,187 | 169.87   | 4,917,717                   | 45,195,412.4                          |  |
| 2021         | 1,100,892                                     | 55,461,179 | 198.5  | 5,460,506                   | 49,701,517.2                          |  |
| 2022         | 413,682                                       | 27,052,770 | 152.92   | 1,399,549                   | 23,555,669.3                          |  |
| 2023         | 3 409,236 26,049,118                          |            | 157.1  | 1,330,382                   | 22,824,497.1                          |  |
| Prevalent hi | story of CABG or PTG                          | CA         |  |                             |                                       |  |
| Female       |   |            |  |                             |                                       |  |
| 2010         | 79,047  | 16,620,072 | 47.56  | 237,641                     | 13,840,352.2                          |  |
| 2011         | 574,274                                       | 25,991,937 | 220.94   | 1,881,187                   | 22,622,132.8                          |  |
| 2012         | 591,934                                       | 27,927,482 | 211.95   | 1,952,992                   | 22,756,885.4                          |  |
| 2013         | 593,691                                       | 26,360,038 | 225.22   | 1,963,896                   | 23,057,766.4                          |  |
| 2014         | 641,691                                       | 28,973,575 | 221.47   | 2,139,012                   | 25,317,582.6                          |  |
| 2015         | 687,482                                       | 35,663,779 | 192.77   | 2,352,821                   | 31,006,886.6                          |  |
| 2016         | 763,603                                       | 58,160,484 | 131.29   | 2,904,404                   | 36,493,562.2                          |  |
| 2017         | 795,950                                       | 54,623,746 | 145.72   | 3,107,339                   | 47,081,763.0                          |  |
| 2018         | 811,227                                       | 58,009,789 | 139.84   | 3,207,725                   | 50,103,433.5                          |  |
| 2019         | 830,338                                       | 57,389,186 | 144.69   | 3,426,341                   | 49,706,143.7                          |  |
| 2020         | 743,320                                       | 64,764,344 | 114.77   | 2,831,820                   | 52,063,017.4                          |  |
| 2021         | 735,708                                       | 63,349,537 | 116.13   | 3,015,931                   | 57,111,424.1                          |  |
| 2022         | 676,875                                       | 30,980,722 | 218.48   | 2,825,250                   | 27,294,523.5                          |  |
| 2023         | 658,448                                       | 29,556,919 | 222.77   | 2,825,757                   | 26,175,809.1                          |  |
| Male         |   |            |  |                             |                                       |  |
| 2010         | 198,738                                       | 15,767,023 | 126.05   | 615,063                     | 13,041,136.8                          |  |
| 2011         | 846,016                                       | 21,830,145 | 387.54   | 2,933,754                   | 18,684,184.1                          |  |
| 2012         | 894,481                                       | 23,698,652 | 377.44   | 3,095,921                   | 18,893,110.7                          |  |
| 2013         | 942,103                                       | 22,336,232 | 421.78   | 3,304,314                   | 19,260,324.7                          |  |
| 2014         | 1,083,007                                     | 24,923,770 | 434.53   | 3,859,253                   | 21,463,484.2                          |  |

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Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Sex and Year

| Nembers with an Index Date   Eligible Members   Number of Members with an Index Date   Vears   Vea     | by SCX and   |                      |                               |        |             |              |
|--|--------------|----------------------|-------------------------------|--------|-------------|--------------|
| 2015 1,209,903 30,684,795 394.3 4,403,571 26,353,043.8 2016 1,393,293 50,568,118 275.53 5,596,572 31,398,752.1 2017 1,486,707 47,655,204 311.97 6,134,529 40,643,876.5 2018 1,543,094 50,645,139 304.69 6,493,973 43,266,882.2 2019 1,597,377 50,108,292 318.78 6,695,609 4,2984,175.6 2020 1,504,219 56,588,187 265.82 5,996,758 45,195,412.4 2021 1,544,009 55,461,179 278.39 6,526,649 49,701,517.2 2022 1,462,467 27,052,770 540.6 6,296,760 23,555,669.3 2023 1,446,380 26,049,118 555.25 6,384,415 22,824,497.1 Prevalent history of sudden cardiac arrest  Female  2010 11,059 16,620,072 6.65 15,716 13,840,352.2 2011 85,031 25,991,937 32.71 198,810 22,622,132.8 2013 39,473 26,360,038 35.46 231,072 23,557,666.4 2014 101,324 28,973,575 34.97 256,986 25,317,582.6 2015 108,863 35,663,779 30.52 282,887 31,006,886.6 2016 115,311 58,160,484 19.83 312,465 36,493,562.2 2017 133,743 54,623,746 24.48 368,021 47,081,763.2 2019 128,081 57,389,186 22.32 391,423 49,706,143.7 2020 143,318 64,764,344 22.13 428,425 52,063,017.4 2021 147,076 63,349,537 23.22 42,484 368,021 47,081,763. 2019 128,081 57,389,186 22.32 391,423 49,706,143.7 2020 143,318 64,764,344 22.13 428,425 52,063,017.4 2021 147,076 63,349,537 23.22 42,484 57,111,424.1 2022 106,240 30,980,722 34.29 312,251 27,245,235 2019 128,081 57,389,186 22.32 391,423 49,706,143.7 2020 143,318 64,764,344 22.13 428,425 52,063,017.4 2021 147,076 63,349,537 23.22 42,484 57,111,424.1 2022 106,240 30,980,722 34.29 312,251 27,245,235 2023 395,775 29,556,919 32.4 22.13 42,845 57,111,424.1 2022 106,240 30,980,722 34.29 312,251 27,245,235 2019 128,081 57,389,186 22.32 391,423 49,706,143.7 2020 143,318 64,764,344 22.13 428,425 52,063,017.4 2021 147,076 63,349,537 23.22 42,454 57,111,424.1 2022 106,240 30,980,722 34.29 312,251 27,245,235 2019 128,081 57,389,186 22.32 391,423 49,706,143.7 2020 143,318 64,764,344 22.13 428,425 52,063,017.4 2021 147,076 63,349,537 23.22 42,454 57,111,424.1 2022 106,240 30,980,722 34.29 312,251 27,245,235 2019 128,081 57,389,186 23.34 23.4 25,152,250,245,235 2019 128,081 57,389 |              |                      |                               |        |             | _            |
| 2016 1,393,293 50,568,118 275.53 5,596,572 31,398,752.1 2017 1,486,707 47,655,204 311.97 6,134,529 40,643,876.5 2018 1,543,094 50,645,139 304.69 6,493,973 43,286,882.2 2019 1,597,377 50,108,292 318.78 6,995,069 42,984,175.6 2020 1,504,219 56,588,187 265.82 5,996,758 45,195,412.4 2021 1,544,009 55,461,179 278.39 6,526,649 49,701,517.2 2022 1,462,467 27,052,770 540.6 6,296,760 23,555,669.3 2023 1,446,380 26,049,118 555.25 6,384,415 22,824,497.1 2001 11,059 16,620,072 6.665 15,716 13,840,352.2 2011 88,031 25,991,937 32.71 198,810 22,622,132.8 2012 88,193 27,927,482 31.58 212,708 22,756,885.4 2013 93,473 26,360,038 35.46 231,072 23,057,766.4 2014 101,324 28,973,575 34.97 256,986 25,317,582.6 2015 108,863 35,663,779 30.52 282,887 31,006,886.6 2016 115,311 58,160,484 19.83 312,465 36,493,562.2 2017 133,743 54,623,746 24.48 368,021 47,081,763.0 2018 130,847 58,009,789 22.566 379,189 50,103,433.5 2019 128,081 57,389,186 22.32 391,423 49,706,143.7 2020 143,318 64,764,344 22.13 428,425 52,063,017,424.1 2021 147,076 63,349,537 23.22 442,454 28,973,575 29,556,919 32.4 28,174 26,175,809.1 2020 143,318 64,764,344 22.13 428,425 52,063,017,424.1 2021 147,076 63,349,537 23.22 442,454 52,063,017,424.1 2022 106,240 30,980,722 34.29 312,251 27,249,523.5 2023 95,775 29,556,919 32.4 28,174 26,175,809.1 2021 147,076 63,349,537 23.22 442,454 52,063,017,424.1 2022 106,240 30,980,722 34.29 312,251 27,249,523.5 2023 95,775 29,556,919 32.4 28,174 26,175,809.1 2021 147,076 63,349,537 23.22 442,454 26,175,809.1 2021 147,076 63,349,537 23.22 442,454 26,175,809.1 2022 106,240 30,980,722 34.29 312,251 27,249,523.5 2023 95,775 29,556,919 32.4 28,174 26,175,809.1 2021 147,076 63,349,537 23.22 442,454 26,175,809.1 2022 106,240 30,980,722 34.29 312,251 27,249,523.5 2023 95,775 29,556,919 32.4 28,175 26,175,809.1 2021 30,005,865 23 38 213,567 18,893,110.7 2021 30,005,865 23 38 213,567 18,893,110.7 2021 30,005,865 23 38 213,567 18,893,110.7 2021 30,005,865 23 38 213,567 18,893,110.7 2021 30,005,865 23 38 213,567 18,893,110.7 2021 30,005,865 23,366,6 |              | Index Date           | Eligible Members <sup>1</sup> |        | Index Dates |              |
| 2017         1,486,707         47,655,204         311.97         6,134,529         40,643,876.5           2018         1,543,094         50,645,139         304.69         6,493,973         43,286,882.2           2019         1,597,377         50,108,292         318.78         6,995,069         42,984,175.6           2020         1,504,219         56,588,187         265.82         5,996,758         45,195,412.4           2021         1,544,009         55,461,179         278.39         6,526,649         49,701,517.4           2022         1,462,467         27,052,770         540.6         6,296,760         23,555,669.3           2023         1,446,380         26,049,118         555.25         6,384,415         22,824,497.1           Prevalent history of sudden cardiac arrest           Female           2010         11,059         16,620,072         6.65         15,716         13,840,352.2           2011         88,031         25,991,937         32.71         198,810         22,622,132.8           2012         88,193         27,927,482         31.58         212,708         25,585,46           2013         93,473         26,360,038         35.46         231,072         23,575,66   | 2015         | 1,209,903            | 30,684,795                    | 394.3  | 4,403,571   |              |
| 2018         1,543,094         50,645,139         304.69         6,493,973         43,286,882.2           2019         1,597,377         50,108,292         318.78         6,995,069         42,984,175.6           2020         1,504,219         56,588,187         265.82         5,996,758         45,195,412.4           2021         1,460,409         55,461,179         278.39         6,526,649         49,701,517.2           2022         1,462,467         27,052,770         540.6         6,296,760         23,555,669.3           Prevalent history of sudden cardiac arrest           Female           2010         11,059         16,620,072         6.65         15,716         13,840,352.2           2011         85,031         25,991,937         32.71         198,810         22,622,132.8           2012         88,193         27,927,482         31.58         212,708         22,756,885.4           2013         93,473         26,360,038         35.46         231,072         26,986         25,317,582.6           2015         108,863         35,663,779         30.52         282,887         31,006,886.6           2016         115,311         58,160,484         19.83         312,465   | 2016         | 1,393,293            | 50,568,118                    | 275.53 | 5,596,572   | 31,398,752.1 |
| 2019         1,597,377         50,108,292         318.78         6,995,069         42,984,175.6           2020         1,504,219         56,588,187         265.82         5,996,758         45,195,412.4           2021         1,544,009         55,461,179         278.39         6,526,649         49,701,517.2           2022         1,462,467         27,052,770         540.6         6,296,760         23,555,669.3           2023         1,446,380         26,049,118         555.25         6,384,415         22,824,497.1           Prevalent history of sudden cardiac arrest           Female           2010         11,059         16,620,072         6.65         15,716         13,840,352.2           2011         85,031         25,991,937         32.71         198,810         22,622,132.8           2012         88,193         27,927,482         31.58         212,708         22,756,885.4           2013         93,473         26,360,038         35.46         231,072         23,057,766.4           2014         101,324         28,973,575         34.97         256,986         25,317,582.6           2015         108,863         35,663,779         30.52         282,887         31,006,886.6 <td>2017</td> <td>1,486,707</td> <td>47,655,204</td> <td>311.97</td> <td>6,134,529</td> <td>40,643,876.5</td>   | 2017         | 1,486,707            | 47,655,204                    | 311.97 | 6,134,529   | 40,643,876.5 |
| 2020         1,504,219         56,588,187         265.82         5,996,758         45,195,412.4           2021         1,544,009         55,461,179         278.39         6,526,649         49,701,517.2           2022         1,462,467         27,052,770         540.6         6,296,760         23,555,669.3           2023         1,446,380         26,049,118         555.25         6,384,415         22,824,497.1           Prevalent history of sudden cardiac arrest           Female           2010         11,059         16,620,072         6.65         15,716         13,840,352.2           2011         85,031         25,991,937         32,71         198,810         22,622,132.8           2012         88,193         27,927,482         31.58         212,708         22,756,885.4           2013         93,473         26,360,038         35.46         231,072         23,057,766.4           2014         101,324         28,973,575         34.97         256,986         25,317,582.6           2015         108,863         35,663,779         30.52         282,887         31,006,886.6           2016         115,311         58,160,484         19.83         312,465         379,189   | 2018         | 1,543,094            | 50,645,139                    | 304.69 | 6,493,973   | 43,286,882.2 |
| 2021         1,544,009         55,461,179         278.39         6,526,649         49,701,517.2           2022         1,462,467         27,052,770         540.6         6,296,760         23,555,669.3           2023         1,446,380         26,049,118         555.25         6,384,415         22,824,497.1           Prevalent history of sudden cardiac arrest           Female           2010         11,059         16,620,072         6.65         15,716         13,840,352.2           2011         85,031         25,991,937         32.71         198,810         22,622,132.8           2012         88,193         27,927,482         31.58         212,708         22,756,885.4           2013         93,473         26,360,038         35.46         231,072         23,057,766.4           2014         101,324         28,973,575         34.97         256,986         25,317,582.6           2015         108,863         35,663,779         30.52         282,887         31,006,886.6           2016         115,311         58,160,484         19.83         312,465         36,493,562.2           2017         133,743         54,623,746         24.48         368,021         47,081,763.0 <td>2019</td> <td>1,597,377</td> <td>50,108,292</td> <td>318.78</td> <td>6,995,069</td> <td>42,984,175.6</td>   | 2019         | 1,597,377            | 50,108,292                    | 318.78 | 6,995,069   | 42,984,175.6 |
| 2022         1,462,467         27,052,770         540.6         6,296,760         23,555,669.3           2023         1,446,380         26,049,118         555.25         6,384,415         22,824,497.1           Prevalent history of sudden cardiac arrest           Female           2010         11,059         16,620,072         6.65         15,716         13,840,352.2           2011         85,031         25,991,937         32.71         198,810         22,622,132.8           2012         88,193         27,927,482         31.58         212,708         22,756,885.4           2013         93,473         26,360,038         35.46         231,072         23,057,766.4           2014         101,324         28,973,575         34.97         256,986         25,317,582.6           2015         108,863         35,663,779         30.52         282,887         31,006,886.6           2016         115,311         58,160,484         19.83         312,465         36,493,562.2           2017         133,743         54,623,746         24.48         368,021         47,081,763.0           2018         130,847         58,009,789         22.56         379,189         50,103,433.5  | 2020         | 1,504,219            | 56,588,187                    | 265.82 | 5,996,758   | 45,195,412.4 |
| 2023         1,446,380         26,049,118         555.25         6,384,415         22,824,497.1           Prevalent history of sudden cardiac arrest           Female           2010         11,059         16,620,072         6.65         15,716         13,840,352.2           2011         85,031         25,991,937         32.71         198,810         22,622,132.8           2012         88,193         27,927,482         31.58         212,708         22,756,885.4           2013         93,473         26,360,038         35.46         231,072         23,057,766.4           2014         101,324         28,973,575         34.97         256,986         25,317,582.6           2015         108,863         35,663,779         30.52         282,887         31,006,886.6           2016         115,311         58,160,484         19.83         312,465         36,493,562.2           2017         133,743         54,623,746         24.48         368,021         47,081,763.0           2018         130,847         58,009,789         22.56         379,189         50,103,433.5           2020         143,318         64,764,344         22.13         428,425         52,063,017.4 <tr< td=""><td>2021</td><td>1,544,009</td><td>55,461,179</td><td>278.39</td><td>6,526,649</td><td>49,701,517.2</td></tr<>  | 2021         | 1,544,009            | 55,461,179                    | 278.39 | 6,526,649   | 49,701,517.2 |
| Prevalent history of sudden cardioc arrest           Female           2010         11,059         16,620,072         6.65         15,716         13,840,352.2           2011         85,031         25,991,937         32.71         198,810         22,622,132.8           2012         88,193         27,927,482         31.58         212,708         22,756,885.4           2013         93,473         26,360,038         35.46         231,072         23,057,766.4           2014         101,324         28,973,575         34.97         256,986         25,317,582.6           2015         108,863         35,663,779         30.52         282,887         31,006,886.6           2016         115,311         58,160,484         19.83         312,465         36,493,562.2           2017         133,743         54,623,746         24.48         368,021         47,081,763.0           2018         130,847         58,009,789         22.56         379,189         50,103,433.5           2019         128,081         57,389,186         22.32         391,423         49,706,143.7           2020         143,318         64,764,344         22.13         428,425         52,063,017.4           202   | 2022         | 1,462,467            | 27,052,770                    | 540.6  | 6,296,760   | 23,555,669.3 |
| Female           2010         11,059         16,620,072         6.65         15,716         13,840,352.2           2011         85,031         25,991,937         32.71         198,810         22,622,132.8           2012         88,193         27,927,482         31.58         212,708         22,756,885.4           2013         93,473         26,360,038         35.46         231,072         23,057,766.4           2014         101,324         28,973,575         34.97         256,986         25,317,582.6           2015         108,863         35,663,779         30.52         282,887         31,006,886.6           2016         115,311         58,160,484         19.83         312,465         36,493,562.2           2017         133,743         54,623,746         24.48         368,021         47,081,763.0           2018         130,847         58,009,789         22.56         379,189         50,103,433.5           2019         128,081         57,389,186         22.32         391,423         49,706,143.7           2020         143,318         64,764,344         22.13         428,425         52,063,017.4           2021         147,076         63,349,537         23.22 </td <td>2023</td> <td>1,446,380</td> <td>26,049,118</td> <td>555.25</td> <td>6,384,415</td> <td>22,824,497.1</td>   | 2023         | 1,446,380            | 26,049,118                    | 555.25 | 6,384,415   | 22,824,497.1 |
| 2010         11,059         16,620,072         6.65         15,716         13,840,352.2           2011         85,031         25,991,937         32.71         198,810         22,622,132.8           2012         88,193         27,927,482         31.58         212,708         22,756,885.4           2013         93,473         26,360,038         35.46         231,072         23,057,766.4           2014         101,324         28,973,575         34.97         256,986         25,317,582.6           2015         108,863         35,663,779         30.52         282,887         31,006,886.6           2016         115,311         58,160,484         19.83         312,465         36,493,562.2           2017         133,743         54,623,746         24.48         368,021         47,081,763.0           2018         130,847         58,009,789         22.56         379,189         50,103,433.5           2019         128,081         57,389,186         22.32         391,423         49,706,143.7           2020         143,318         64,764,344         22.13         428,425         52,063,017.4           2021         147,076         63,349,537         23.22         442,454         57,111,424.1 </td <td>Prevalent hi</td> <td>story of sudden card</td> <td>diac arrest</td> <td></td> <td></td> <td></td>  | Prevalent hi | story of sudden card | diac arrest                   |        |             |              |
| 2011         85,031         25,991,937         32.71         198,810         22,622,132.8           2012         88,193         27,927,482         31.58         212,708         22,756,885.4           2013         93,473         26,360,038         35.46         231,072         23,057,766.4           2014         101,324         28,973,575         34.97         256,986         25,317,582.6           2015         108,863         35,663,779         30.52         282,887         31,006,886.6           2016         115,311         58,160,484         19.83         312,465         36,493,562.2           2017         133,743         54,623,746         24.48         368,021         47,081,763.0           2018         130,847         58,009,789         22.56         379,189         50,103,433.5           2019         128,081         57,389,186         22.32         391,423         49,706,143.7           2020         143,318         64,764,344         22.13         428,425         52,063,017.4           2021         147,076         63,349,537         23.22         442,454         57,111,424.1           2022         106,240         30,980,722         34.29         312,251         27,294,523.  | Female       |                      |                               |        |             |              |
| 2012       88,193       27,927,482       31.58       212,708       22,756,885.4         2013       93,473       26,360,038       35.46       231,072       23,057,766.4         2014       101,324       28,973,575       34.97       256,986       25,317,582.6         2015       108,863       35,663,779       30.52       282,887       31,006,886.6         2016       115,311       58,160,484       19.83       312,465       36,493,562.2         2017       133,743       54,623,746       24.48       368,021       47,081,763.0         2018       130,847       58,009,789       22.56       379,189       50,103,433.5         2019       128,081       57,389,186       22.32       391,423       49,706,143.7         2020       143,318       64,764,344       22.13       428,425       52,063,017.4         2021       147,076       63,349,537       23.22       442,454       57,111,424.1         2022       106,240       30,980,722       34.29       312,251       27,294,523.5         2023       95,775       29,556,919       32.4       281,174       26,175,809.1         Male         2010       16,174       15,767  | 2010         | 11,059               | 16,620,072                    | 6.65   | 15,716      | 13,840,352.2 |
| 2013       93,473       26,360,038       35.46       231,072       23,057,766.4         2014       101,324       28,973,575       34.97       256,986       25,317,582.6         2015       108,863       35,663,779       30.52       282,887       31,006,886.6         2016       115,311       58,160,484       19.83       312,465       36,493,562.2         2017       133,743       54,623,746       24.48       368,021       47,081,763.0         2018       130,847       58,009,789       22.56       379,189       50,103,433.5         2019       128,081       57,389,186       22.32       391,423       49,706,143.7         2020       143,318       64,764,344       22.13       428,425       52,063,017.4         2021       147,076       63,349,537       23.22       442,454       57,111,424.1         2022       106,240       30,980,722       34.29       312,251       27,294,523.5         2023       95,775       29,556,919       32.4       281,174       26,175,809.1         Male         2010       16,174       15,767,023       10.26       23,741       13,041,136.8         2011       84,137       21,830,  | 2011         | 85,031               | 25,991,937                    | 32.71  | 198,810     | 22,622,132.8 |
| 2014         101,324         28,973,575         34.97         256,986         25,317,582.6           2015         108,863         35,663,779         30.52         282,887         31,006,886.6           2016         115,311         58,160,484         19.83         312,465         36,493,562.2           2017         133,743         54,623,746         24.48         368,021         47,081,763.0           2018         130,847         58,009,789         22.56         379,189         50,103,433.5           2019         128,081         57,389,186         22.32         391,423         49,706,143.7           2020         143,318         64,764,344         22.13         428,425         52,063,017.4           2021         147,076         63,349,537         23.22         442,454         57,111,424.1           2022         106,240         30,980,722         34.29         312,251         27,294,523.5           2023         95,775         29,556,919         32.4         281,174         26,175,809.1           Male           2010         16,174         15,767,023         10.26         23,741         13,041,136.8           2011         84,137         21,830,145         38.54 <td>2012</td> <td colspan="2">2 88,193 27,927,482</td> <td>31.58</td> <td>212,708</td> <td>22,756,885.4</td>  | 2012         | 2 88,193 27,927,482  |                               | 31.58  | 212,708     | 22,756,885.4 |
| 2015       108,863       35,663,779       30.52       282,887       31,006,886.6         2016       115,311       58,160,484       19.83       312,465       36,493,562.2         2017       133,743       54,623,746       24.48       368,021       47,081,763.0         2018       130,847       58,009,789       22.56       379,189       50,103,433.5         2019       128,081       57,389,186       22.32       391,423       49,706,143.7         2020       143,318       64,764,344       22.13       428,425       52,063,017.4         2021       147,076       63,349,537       23.22       442,454       57,111,424.1         2022       106,240       30,980,722       34.29       312,251       27,294,523.5         2023       95,775       29,556,919       32.4       281,174       26,175,809.1         Male         2010       16,174       15,767,023       10.26       23,741       13,041,136.8         2011       84,137       21,830,145       38.54       196,321       18,684,184.1         2012       90,053       23,698,652       38       213,567       18,893,110.7         2013       97,090       22   | 2013         | 93,473               | 26,360,038                    | 35.46  | 231,072     | 23,057,766.4 |
| 2016         115,311         58,160,484         19.83         312,465         36,493,562.2           2017         133,743         54,623,746         24.48         368,021         47,081,763.0           2018         130,847         58,009,789         22.56         379,189         50,103,433.5           2019         128,081         57,389,186         22.32         391,423         49,706,143.7           2020         143,318         64,764,344         22.13         428,425         52,063,017.4           2021         147,076         63,349,537         23.22         442,454         57,111,424.1           2022         106,240         30,980,722         34.29         312,251         27,294,523.5           2023         95,775         29,556,919         32.4         281,174         26,175,809.1           Male           2010         16,174         15,767,023         10.26         23,741         13,041,136.8           2011         84,137         21,830,145         38.54         196,321         18,684,184.1           2012         90,053         23,698,652         38         213,567         18,893,110.7           2013         97,090         22,336,232         43.47  | 2014         | 101,324              | 28,973,575                    | 34.97  | 256,986     | 25,317,582.6 |
| 2017       133,743       54,623,746       24.48       368,021       47,081,763.0         2018       130,847       58,009,789       22.56       379,189       50,103,433.5         2019       128,081       57,389,186       22.32       391,423       49,706,143.7         2020       143,318       64,764,344       22.13       428,425       52,063,017.4         2021       147,076       63,349,537       23.22       442,454       57,111,424.1         2022       106,240       30,980,722       34.29       312,251       27,294,523.5         2023       95,775       29,556,919       32.4       281,174       26,175,809.1         Male         2010       16,174       15,767,023       10.26       23,741       13,041,136.8         2011       84,137       21,830,145       38.54       196,321       18,684,184.1         2012       90,053       23,698,652       38       213,567       18,893,110.7         2013       97,090       22,336,232       43.47       242,395       19,260,324.7         2014       110,980       24,923,770       44.53       283,784       21,463,484.2         2015       121,191       30,684,795<  | 2015         | 108,863              | 35,663,779                    | 30.52  | 282,887     | 31,006,886.6 |
| 2018       130,847       58,009,789       22.56       379,189       50,103,433.5         2019       128,081       57,389,186       22.32       391,423       49,706,143.7         2020       143,318       64,764,344       22.13       428,425       52,063,017.4         2021       147,076       63,349,537       23.22       442,454       57,111,424.1         2022       106,240       30,980,722       34.29       312,251       27,294,523.5         2023       95,775       29,556,919       32.4       281,174       26,175,809.1         Male         2010       16,174       15,767,023       10.26       23,741       13,041,136.8         2011       84,137       21,830,145       38.54       196,321       18,684,184.1         2012       90,053       23,698,652       38       213,567       18,893,110.7         2013       97,090       22,336,232       43.47       242,395       19,260,324.7         2014       110,980       24,923,770       44.53       283,784       21,463,484.2         2015       121,191       30,684,795       39.5       319,799       26,353,043.8  | 2016         | 115,311              | 58,160,484                    | 19.83  | 312,465     | 36,493,562.2 |
| 2019       128,081       57,389,186       22.32       391,423       49,706,143.7         2020       143,318       64,764,344       22.13       428,425       52,063,017.4         2021       147,076       63,349,537       23.22       442,454       57,111,424.1         2022       106,240       30,980,722       34.29       312,251       27,294,523.5         2023       95,775       29,556,919       32.4       281,174       26,175,809.1         Male         2010       16,174       15,767,023       10.26       23,741       13,041,136.8         2011       84,137       21,830,145       38.54       196,321       18,684,184.1         2012       90,053       23,698,652       38       213,567       18,893,110.7         2013       97,090       22,336,232       43.47       242,395       19,260,324.7         2014       110,980       24,923,770       44.53       283,784       21,463,484.2         2015       121,191       30,684,795       39.5       319,799       26,353,043.8   | 2017         | 133,743              | 54,623,746                    | 24.48  | 368,021     | 47,081,763.0 |
| 2020       143,318       64,764,344       22.13       428,425       52,063,017.4         2021       147,076       63,349,537       23.22       442,454       57,111,424.1         2022       106,240       30,980,722       34.29       312,251       27,294,523.5         2023       95,775       29,556,919       32.4       281,174       26,175,809.1         Male         2010       16,174       15,767,023       10.26       23,741       13,041,136.8         2011       84,137       21,830,145       38.54       196,321       18,684,184.1         2012       90,053       23,698,652       38       213,567       18,893,110.7         2013       97,090       22,336,232       43.47       242,395       19,260,324.7         2014       110,980       24,923,770       44.53       283,784       21,463,484.2         2015       121,191       30,684,795       39.5       319,799       26,353,043.8  | 2018         | 130,847              | 58,009,789                    | 22.56  | 379,189     | 50,103,433.5 |
| 2021       147,076       63,349,537       23.22       442,454       57,111,424.1         2022       106,240       30,980,722       34.29       312,251       27,294,523.5         2023       95,775       29,556,919       32.4       281,174       26,175,809.1         Male         2010       16,174       15,767,023       10.26       23,741       13,041,136.8         2011       84,137       21,830,145       38.54       196,321       18,684,184.1         2012       90,053       23,698,652       38       213,567       18,893,110.7         2013       97,090       22,336,232       43.47       242,395       19,260,324.7         2014       110,980       24,923,770       44.53       283,784       21,463,484.2         2015       121,191       30,684,795       39.5       319,799       26,353,043.8   | 2019         | 128,081              | 57,389,186                    | 22.32  | 391,423     | 49,706,143.7 |
| 2022       106,240       30,980,722       34.29       312,251       27,294,523.5         2023       95,775       29,556,919       32.4       281,174       26,175,809.1         Male         2010       16,174       15,767,023       10.26       23,741       13,041,136.8         2011       84,137       21,830,145       38.54       196,321       18,684,184.1         2012       90,053       23,698,652       38       213,567       18,893,110.7         2013       97,090       22,336,232       43.47       242,395       19,260,324.7         2014       110,980       24,923,770       44.53       283,784       21,463,484.2         2015       121,191       30,684,795       39.5       319,799       26,353,043.8  | 2020         | 143,318              | 64,764,344                    | 22.13  | 428,425     | 52,063,017.4 |
| 2023       95,775       29,556,919       32.4       281,174       26,175,809.1         Male         2010       16,174       15,767,023       10.26       23,741       13,041,136.8         2011       84,137       21,830,145       38.54       196,321       18,684,184.1         2012       90,053       23,698,652       38       213,567       18,893,110.7         2013       97,090       22,336,232       43.47       242,395       19,260,324.7         2014       110,980       24,923,770       44.53       283,784       21,463,484.2         2015       121,191       30,684,795       39.5       319,799       26,353,043.8   | 2021         | 147,076              | 63,349,537                    | 23.22  | 442,454     | 57,111,424.1 |
| Male         2010       16,174       15,767,023       10.26       23,741       13,041,136.8         2011       84,137       21,830,145       38.54       196,321       18,684,184.1         2012       90,053       23,698,652       38       213,567       18,893,110.7         2013       97,090       22,336,232       43.47       242,395       19,260,324.7         2014       110,980       24,923,770       44.53       283,784       21,463,484.2         2015       121,191       30,684,795       39.5       319,799       26,353,043.8  | 2022         | 106,240              | 30,980,722                    | 34.29  | 312,251     | 27,294,523.5 |
| 2010       16,174       15,767,023       10.26       23,741       13,041,136.8         2011       84,137       21,830,145       38.54       196,321       18,684,184.1         2012       90,053       23,698,652       38       213,567       18,893,110.7         2013       97,090       22,336,232       43.47       242,395       19,260,324.7         2014       110,980       24,923,770       44.53       283,784       21,463,484.2         2015       121,191       30,684,795       39.5       319,799       26,353,043.8   | 2023         | 95,775               | 29,556,919                    | 32.4   | 281,174     | 26,175,809.1 |
| 2011       84,137       21,830,145       38.54       196,321       18,684,184.1         2012       90,053       23,698,652       38       213,567       18,893,110.7         2013       97,090       22,336,232       43.47       242,395       19,260,324.7         2014       110,980       24,923,770       44.53       283,784       21,463,484.2         2015       121,191       30,684,795       39.5       319,799       26,353,043.8  | Male         |                      |                               |        |             |              |
| 2012       90,053       23,698,652       38       213,567       18,893,110.7         2013       97,090       22,336,232       43.47       242,395       19,260,324.7         2014       110,980       24,923,770       44.53       283,784       21,463,484.2         2015       121,191       30,684,795       39.5       319,799       26,353,043.8  | 2010         | 16,174               | 15,767,023                    | 10.26  | 23,741      | 13,041,136.8 |
| 2013       97,090       22,336,232       43.47       242,395       19,260,324.7         2014       110,980       24,923,770       44.53       283,784       21,463,484.2         2015       121,191       30,684,795       39.5       319,799       26,353,043.8   | 2011         | 84,137               | 21,830,145                    | 38.54  | 196,321     | 18,684,184.1 |
| 2014       110,980       24,923,770       44.53       283,784       21,463,484.2         2015       121,191       30,684,795       39.5       319,799       26,353,043.8   | 2012         | 90,053               | 23,698,652                    | 38     | 213,567     | 18,893,110.7 |
| 2015 121,191 30,684,795 39.5 319,799 26,353,043.8  | 2013         | 97,090               | 22,336,232                    | 43.47  | 242,395     | 19,260,324.7 |
|  | 2014         | 110,980              | 24,923,770                    | 44.53  | 283,784     | 21,463,484.2 |
| 2016 131,387 50,568,118 25.98 362,316 31,398,752.1   | 2015         | 121,191              | 30,684,795                    | 39.5   | 319,799     | 26,353,043.8 |
|  | 2016         | 131,387              | 50,568,118                    | 25.98  | 362,316     | 31,398,752.1 |
| 2017 156,062 47,655,204 32.75 441,443 40,643,876.5   | 2017         | 156,062              | 47,655,204                    | 32.75  | 441,443     | 40,643,876.5 |
| 2018 158,322 50,645,139 31.26 472,692 43,286,882.2   | 2018         | 158,322              | 50,645,139                    | 31.26  | 472,692     | 43,286,882.2 |
| 2019 158,201 50,108,292 31.57 494,349 42,984,175.6   | 2019         | 158,201              | 50,108,292                    | 31.57  | 494,349     | 42,984,175.6 |

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Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Sex and Year

|   | Members with an Index Date | Eligible Members <sup>1</sup> | Number of Members with an Index  Date per 10K Eligible Members <sup>1</sup> | Total Number of<br>Index Dates | Eligible Member<br>Years <sup>1</sup> |  |  |  |
|---|----------------------------|-------------------------------|---|--------------------------------|---------------------------------------|--|--|--|
| 2020                                    | 179,971                    | 56,588,187                    | 31.8  | 537,473                        | 45,195,412.4                          |  |  |  |
| 2021                                    | 190,023                    | 55,461,179                    | 34.26   | 583,158                        | 49,701,517.2                          |  |  |  |
| 2022                                    | 137,199                    | 27,052,770                    | 50.72   | 415,704                        | 23,555,669.3                          |  |  |  |
| 2023                                    | 127,586                    | 26,049,118                    | 48.98   | 392,664                        | 22,824,497.1                          |  |  |  |
| Capture of Other Confounding Covariates |                            |                               |   |                                |                                       |  |  |  |
|   |                            | es a range of Body N          | lass Index (BMI)  |                                |                                       |  |  |  |
| Female                                  |                            |                               |   |                                |                                       |  |  |  |
| 2010                                    | 125,973                    | 16,620,072                    | 75.8  | 178,659                        | 13,840,352.2                          |  |  |  |
| 2011                                    | 592,189                    | 25,991,937                    | 227.84  | 953,539                        | 22,622,132.8                          |  |  |  |
| 2012                                    | 959,307                    | 27,927,482                    | 343.5   | 1,731,483                      | 22,756,885.4                          |  |  |  |
| 2013                                    | 1,459,892                  | 26,360,038                    | 553.83  | 2,783,656                      | 23,057,766.4                          |  |  |  |
| 2014                                    | 2,230,929                  | 28,973,575                    | 769.99  | 4,435,010                      | 25,317,582.6                          |  |  |  |
| 2015                                    | 3,470,807                  | 35,663,779                    | 973.2   | 6,989,070                      | 31,006,886.6                          |  |  |  |
| 2016                                    | 5,230,963                  | 58,160,484                    | 899.4   | 11,212,480                     | 36,493,562.2                          |  |  |  |
| 2017                                    | 7,885,182                  | 54,623,746                    | 1,443.54  | 17,034,423                     | 47,081,763.0                          |  |  |  |
| 2018                                    | 9,857,190                  | 58,009,789                    | 1,699.23  | 21,945,670                     | 50,103,433.5                          |  |  |  |
| 2019                                    | 10,720,111                 | 57,389,186                    | 1,867.97  | 24,439,504                     | 49,706,143.7                          |  |  |  |
| 2020                                    | 10,031,563                 | 64,764,344                    | 1,548.93  | 20,858,625                     | 52,063,017.4                          |  |  |  |
| 2021                                    | 11,492,672                 | 63,349,537                    | 1,814.17  | 24,721,257                     | 57,111,424.1                          |  |  |  |
| 2022                                    | 8,299,442                  | 30,980,722                    | 2,678.91  | 20,705,766                     | 27,294,523.5                          |  |  |  |
| 2023                                    | 8,428,449                  | 29,556,919                    | 2,851.60  | 21,358,114                     | 26,175,809.1                          |  |  |  |
| Male                                    |                            |                               |   |                                |                                       |  |  |  |
| 2010                                    | 80,907                     | 15,767,023                    | 51.31   | 104,461                        | 13,041,136.8                          |  |  |  |
| 2011                                    | 347,574                    | 21,830,145                    | 159.22  | 535,014                        | 18,684,184.1                          |  |  |  |
| 2012                                    | 594,431                    | 23,698,652                    | 250.83  | 1,042,763                      | 18,893,110.7                          |  |  |  |
| 2013                                    | 947,233                    | 22,336,232                    | 424.08  | 1,744,115                      | 19,260,324.7                          |  |  |  |
| 2014                                    | 1,499,660                  | 24,923,770                    | 601.7   | 2,853,658                      | 21,463,484.2                          |  |  |  |
| 2015                                    | 2,418,464                  | 30,684,795                    | 788.16  | 4,601,973                      | 26,353,043.8                          |  |  |  |
| 2016                                    | 3,713,366                  | 50,568,118                    | 734.33  | 7,474,013                      | 31,398,752.1                          |  |  |  |
| 2017                                    | 5,617,892                  | 47,655,204                    | 1,178.86  | 11,391,590                     | 40,643,876.5                          |  |  |  |
| 2018                                    | 7,105,491                  | 50,645,139                    | 1,403.00  | 14,821,632                     | 43,286,882.2                          |  |  |  |
| 2019                                    | 7,905,740                  | 50,108,292                    | 1,577.73  | 16,856,816                     | 42,984,175.6                          |  |  |  |
| 2020                                    | 7,559,402                  | 56,588,187                    | 1,335.86  | 14,824,903                     | 45,195,412.4                          |  |  |  |
| 2021                                    | 8,681,361                  | 55,461,179                    | 1,565.30  | 17,412,424                     | 49,701,517.2                          |  |  |  |
| 2022                                    | 6,211,174                  | 27,052,770                    | 2,295.95  | 14,455,859                     | 23,555,669.3                          |  |  |  |
| 2023                                    | 6,300,114                  | 26,049,118                    | 2,418.55  | 14,827,924                     | 22,824,497.1                          |  |  |  |

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Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Sex and Year

| by Sex and  | Cai                    |                               |  |                 |                    |
|-------------|------------------------|-------------------------------|--|-----------------|--------------------|
|             | Members with an        |                               | Number of Members with an Index            | Total Number of | Eligible Member    |
|             | Index Date             | Eligible Members <sup>1</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates     | Years <sup>1</sup> |
| _           | sis code that indicate | es a range of BMI th          | at classifies as obesity                   |                 |                    |
| Female      |                        |                               |  |                 |                    |
| 2010        | 86,971                 | 16,620,072                    | 52.33                                      | 131,418         | 13,840,352.2       |
| 2011        | 375,499                | 25,991,937                    | 144.47                                     | 637,953         | 22,622,132.8       |
| 2012        | 568,101                | 27,927,482                    | 203.42                                     | 1,038,787       | 22,756,885.4       |
| 2013        | 816,388                | 26,360,038                    | 309.71                                     | 1,570,221       | 23,057,766.4       |
| 2014        | 1,198,928              | 28,973,575                    | 413.8                                      | 2,426,529       | 25,317,582.6       |
| 2015        | 1,806,071              | 35,663,779                    | 506.42                                     | 3,750,918       | 31,006,886.6       |
| 2016        | 2,706,708              | 58,160,484                    | 465.39                                     | 6,055,891       | 36,493,562.2       |
| 2017        | 3,963,227              | 54,623,746                    | 725.55                                     | 8,997,060       | 47,081,763.0       |
| 2018        | 4,865,769              | 58,009,789                    | 838.78                                     | 11,451,948      | 50,103,433.5       |
| 2019        | 5,194,014              | 57,389,186                    | 905.05                                     | 12,640,406      | 49,706,143.7       |
| 2020        | 4,877,546              | 64,764,344                    | 753.12                                     | 11,034,245      | 52,063,017.4       |
| 2021        | 5,695,592              | 63,349,537                    | 899.07                                     | 13,284,683      | 57,111,424.1       |
| 2022        | 4,297,684              | 30,980,722                    | 1,387.21                                   | 11,362,261      | 27,294,523.5       |
| 2023        | 4,385,988              | 29,556,919                    | 1,483.91                                   | 11,786,316      | 26,175,809.1       |
| Male        |                        |                               |  |                 |                    |
| 2010        | 49,954                 | 15,767,023                    | 31.68                                      | 69,121          | 13,041,136.8       |
| 2011        | 198,669                | 21,830,145                    | 91.01                                      | 320,906         | 18,684,184.1       |
| 2012        | 324,836                | 23,698,652                    | 137.07                                     | 569,345         | 18,893,110.7       |
| 2013        | 495,763                | 22,336,232                    | 221.95                                     | 911,227         | 19,260,324.7       |
| 2014        | 767,240                | 24,923,770                    | 307.83                                     | 1,472,157       | 21,463,484.2       |
| 2015        | 1,183,240              | 30,684,795                    | 385.61                                     | 2,316,864       | 26,353,043.8       |
| 2016        | 1,813,490              | 50,568,118                    | 358.62                                     | 3,802,455       | 31,398,752.1       |
| 2017        | 2,652,113              | 47,655,204                    | 556.52                                     | 5,643,432       | 40,643,876.5       |
| 2018        | 3,300,787              | 50,645,139                    | 651.75                                     | 7,265,147       | 43,286,882.2       |
| 2019        | 3,651,911              | 50,108,292                    | 728.8                                      | 8,268,651       | 42,984,175.6       |
| 2020        | 3,486,747              | 56,588,187                    | 616.16                                     | 7,397,335       | 45,195,412.4       |
| 2021        | 4,085,899              | 55,461,179                    | 736.71                                     | 8,805,208       | 49,701,517.2       |
| 2022        | 3,139,883              | 27,052,770                    | 1,160.65                                   | 7,616,024       | 23,555,669.3       |
| 2023        | 3,207,088              | 26,049,118                    | 1,231.17                                   | 7,875,384       | 22,824,497.1       |
| Has diagnos | sis code that indicate | es a range of BMI th          | at classifies as overweight                |                 |                    |
| Female      |                        |                               |  |                 |                    |
| 2010        | 14,253                 | 16,620,072                    | 8.58                                       | 17,825          | 13,840,352.2       |
| 2011        | 86,588                 | 25,991,937                    | 33.31                                      | 117,017         | 22,622,132.8       |
| 2012        | 184,708                | 27,927,482                    | 66.14                                      | 305,727         | 22,756,885.4       |
|             |                        |                               |  |                 |                    |

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Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023, by Sex and Year

| by Sex and |                            |                               |   |                                |                                       |
|------------|----------------------------|-------------------------------|---|--------------------------------|---------------------------------------|
|            | Members with an Index Date | Eligible Members <sup>1</sup> | Number of Members with an Index  Date per 10K Eligible Members <sup>1</sup> | Total Number of<br>Index Dates | Eligible Member<br>Years <sup>1</sup> |
| 2013       | 320,694                    | 26,360,038                    | 121.66  | 562,461                        | 23,057,766.4                          |
| 2014       | 524,779                    | 28,973,575                    | 181.12  | 951,043                        | 25,317,582.6                          |
| 2015       | 828,483                    | 35,663,779                    | 232.3   | 1,521,155                      | 31,006,886.6                          |
| 2016       | 1,289,099                  | 58,160,484                    | 221.65  | 2,482,672                      | 36,493,562.2                          |
| 2017       | 1,980,124                  | 54,623,746                    | 362.5   | 3,846,197                      | 47,081,763.0                          |
| 2018       | 2,499,448                  | 58,009,789                    | 430.87  | 4,959,555                      | 50,103,433.5                          |
| 2019       | 2,728,274                  | 57,389,186                    | 475.4   | 5,503,918                      | 49,706,143.7                          |
| 2020       | 2,430,765                  | 64,764,344                    | 375.32  | 4,473,828                      | 52,063,017.4                          |
| 2021       | 2,739,406                  | 63,349,537                    | 432.43  | 5,199,799                      | 57,111,424.1                          |
| 2022       | 2,147,958                  | 30,980,722                    | 693.32  | 4,540,527                      | 27,294,523.5                          |
| 2023       | 2,193,281                  | 29,556,919                    | 742.05  | 4,687,702                      | 26,175,809.1                          |
| Male       |                            |                               |   |                                |                                       |
| 2010       | 11,094                     | 15,767,023                    | 7.04  | 12,997                         | 13,041,136.8                          |
| 2011       | 66,878                     | 21,830,145                    | 30.64   | 90,163                         | 18,684,184.1                          |
| 2012       | 147,578                    | 23,698,652                    | 62.27   | 245,965                        | 18,893,110.7                          |
| 2013       | 265,345                    | 22,336,232                    | 118.8   | 461,552                        | 19,260,324.7                          |
| 2014       | 444,689                    | 24,923,770                    | 178.42  | 790,145                        | 21,463,484.2                          |
| 2015       | 704,767                    | 30,684,795                    | 229.68  | 1,258,755                      | 26,353,043.8                          |
| 2016       | 1,102,897                  | 50,568,118                    | 218.1   | 2,059,081                      | 31,398,752.1                          |
| 2017       | 1,674,599                  | 47,655,204                    | 351.4   | 3,173,881                      | 40,643,876.5                          |
| 2018       | 2,110,779                  | 50,645,139                    | 416.78  | 4,097,018                      | 43,286,882.2                          |
| 2019       | 2,330,111                  | 50,108,292                    | 465.02  | 4,602,837                      | 42,984,175.6                          |
| 2020       | 2,114,456                  | 56,588,187                    | 373.66  | 3,857,599                      | 45,195,412.4                          |
| 2021       | 2,381,877                  | 55,461,179                    | 429.47  | 4,459,315                      | 49,701,517.2                          |
| 2022       | 1,944,377                  | 27,052,770                    | 718.73  | 3,999,081                      | 23,555,669.3                          |
| 2023       | 1,978,467                  | 26,049,118                    | 759.51  | 4,089,711                      | 22,824,497.1                          |

<sup>&</sup>lt;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.

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Table 6. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2020 to December 31, 2021, by Race and Sex

| Capture of Other C Has non-missing vo American Indian or Female Male Asian Female Male Black or African An Female Male Multi-racial Female Male Male Native Hawaiian or Female Male Unknown Female Male | alue for reporte                             | ed race <sup>2</sup> | Date per 10K Eligible Members <sup>1</sup> | Index Dates  | Years <sup>1</sup> |  |  |  |  |  |  |  |  |
|---|--|----------------------|--|--|--------------------|--|--|--|--|--|--|--|--|
| Has non-missing von American Indian on Female Male Asian Female Male Black or African And Female Male Multi-racial Female Male Native Hawaiian on Female Male Unknown Female Male                       | alue for reporte<br>Alaska Native<br>549,769 | ed race <sup>2</sup> |  |  |                    |  |  |  |  |  |  |  |  |
| American Indian or Female Male Asian Female Male Black or African An Female Male Multi-racial Female Male Native Hawaiian or Female Male Unknown Female Male  | Alaska Native<br>549,769                     |                      |  |  |                    |  |  |  |  |  |  |  |  |
| Female Male  Asian Female Male  Black or African And Female Male  Multi-racial Female Male  Native Hawaiian of Female Male  Unknown Female Male   | 549,769                                      |                      |  | Has non-missing value for reported race <sup>2</sup> |                    |  |  |  |  |  |  |  |  |
| Male  Asian  Female  Male  Black or African And  Female  Male  Multi-racial  Female  Male  Native Hawaiian of  Female  Male  Unknown  Female  Male  | ·  | 607.244              |  |  |                    |  |  |  |  |  |  |  |  |
| Asian Female Male Black or African And Female Male Multi-racial Female Male Native Hawaiian or Female Male Unknown Female Male  | 448,275                                      | 607,244              | 9,053.51                                   | 549,769  | N/A                |  |  |  |  |  |  |  |  |
| Female Male Black or African And Female Male Multi-racial Female Male Native Hawaiian of Female Male Unknown Female Male  |  | 519,548              | 8,628.17                                   | 448,275  | N/A                |  |  |  |  |  |  |  |  |
| Male  Black or African And Female  Male  Multi-racial Female  Male  Native Hawaiian of Female  Male  Unknown Female  Male   |  |                      |  |  |                    |  |  |  |  |  |  |  |  |
| Black or African And Female Male Multi-racial Female Male Native Hawaiian of Female Male Unknown Female Male  | 2,245,791                                    | 2,581,325            | 8,700.15                                   | 2,245,791  | N/A                |  |  |  |  |  |  |  |  |
| Female Male Multi-racial Female Male Native Hawaiian of Female Male Unknown Female Male   | 1,837,737                                    | 2,193,748            | 8,377.16                                   | 1,837,737  | N/A                |  |  |  |  |  |  |  |  |
| Male  Multi-racial  Female  Male  Native Hawaiian of  Female  Male  Unknown  Female  Male  Male   | nerican                                      |                      |  |  |                    |  |  |  |  |  |  |  |  |
| Multi-racial Female Male Native Hawaiian of Female Male Unknown Female Male   | 8,782,698                                    | 9,826,421            | 8,937.84                                   | 8,782,698  | N/A                |  |  |  |  |  |  |  |  |
| Female Male Native Hawaiian or Female Male Unknown Female Ale Male  | 6,628,187                                    | 7,852,671            | 8,440.68                                   | 6,628,187  | N/A                |  |  |  |  |  |  |  |  |
| Male  Native Hawaiian of Female  Male  Unknown Female  Male   |  |                      |  |  |                    |  |  |  |  |  |  |  |  |
| Native Hawaiian of Female Male Unknown Female Male  | 596,360                                      | 651,352              | 9,155.73                                   | 596,360  | N/A                |  |  |  |  |  |  |  |  |
| Female Male Unknown Female Male   | 509,205                                      | 573,111              | 8,884.93                                   | 509,205  | N/A                |  |  |  |  |  |  |  |  |
| Male  Unknown  Female  Male   | r Other Pacific I                            | Islander             |  |  |                    |  |  |  |  |  |  |  |  |
| Unknown Female 2 Male 2   | 207,815                                      | 245,949              | 8,449.52                                   | 207,815  | N/A                |  |  |  |  |  |  |  |  |
| Female 2  | 183,926                                      | 227,589              | 8,081.50                                   | 183,926  | N/A                |  |  |  |  |  |  |  |  |
| Male 2  |  |                      |  |  |                    |  |  |  |  |  |  |  |  |
|   | 21,689,042                                   | 25,755,048           | 8,421.28                                   | 21,689,042   | N/A                |  |  |  |  |  |  |  |  |
| 14/6:40   | 20,090,103                                   | 25,424,410           | 7,901.90                                   | 20,090,103   | N/A                |  |  |  |  |  |  |  |  |
| White   |  |                      |  |  |                    |  |  |  |  |  |  |  |  |
| Female 3  | 30,725,123                                   | 33,163,813           | 9,264.65                                   | 30,725,123   | N/A                |  |  |  |  |  |  |  |  |
| Male 2  | 24,304,336                                   | 27,113,080           | 8,964.06                                   | 24,304,336   | N/A                |  |  |  |  |  |  |  |  |
| Has non-missing vo  | alue for impute                              | d race <sup>3</sup>  |  |  |                    |  |  |  |  |  |  |  |  |
| American Indian or  | r Alaska Native                              |                      |  |  |                    |  |  |  |  |  |  |  |  |
| Female  | 67,129                                       | 69,382               | 9,675.28                                   | 67,129   | N/A                |  |  |  |  |  |  |  |  |
| Male  | 48,057                                       | 51,153               | 9,394.76                                   | 48,057   | N/A                |  |  |  |  |  |  |  |  |
| Asian   |  |                      |  |  |                    |  |  |  |  |  |  |  |  |
| Female  | 474,439                                      | 519,453              | 9,133.43                                   | 474,439  | N/A                |  |  |  |  |  |  |  |  |
| Male  | 363,074                                      | 411,635              | 8,820.29                                   | 363,074  | N/A                |  |  |  |  |  |  |  |  |
| Black or African An   | nerican                                      |                      |  |  |                    |  |  |  |  |  |  |  |  |
| Female  | 1,374,499                                    | 1,486,988            | 9,243.51                                   | 1,374,499  | N/A                |  |  |  |  |  |  |  |  |
| Male  | 946,889                                      | 1,080,960            | 8,759.70                                   | 946,889  | N/A                |  |  |  |  |  |  |  |  |
| Multi-racial  |  |                      |  |  |                    |  |  |  |  |  |  |  |  |
| Female  | ****   | ****                 | 8,482.14                                   | ****   | N/A                |  |  |  |  |  |  |  |  |
| Male  | ****   |                      | 8,979.59                                   | ****   | N/A                |  |  |  |  |  |  |  |  |

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Table 6. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2020 to December 31, 2021, by Race and Sex

|            | Members with an Index Date | Eligible Members <sup>1</sup> | Number of Members with an Index  Date per 10K Eligible Members <sup>1</sup> | Total Number of Index Dates | Eligible Member<br>Years <sup>1</sup> |
|------------|----------------------------|-------------------------------|---|-----------------------------|---------------------------------------|
| Native Haw | aiian or Other Pacific     | -<br>Islander                 |   |                             |                                       |
| Female     | ****                       | ****                          | 6,000.00  | ****                        | N/A                                   |
| Male       | ****                       | ****                          | 10,000.00   | ****                        | N/A                                   |
| Unknown    |                            |                               |   |                             |                                       |
| Female     | 2,373,730                  | 2,697,579                     | 8,799.48  | 2,373,730                   | N/A                                   |
| Male       | 2,354,494                  | 2,871,848                     | 8,198.53  | 2,354,494                   | N/A                                   |
| White      |                            |                               |   |                             |                                       |
| Female     | 12,753,996                 | 13,340,180                    | 9,560.59  | 12,753,996                  | N/A                                   |
| Male       | 9,929,055                  | 10,701,025                    | 9,278.60  | 9,929,055                   | N/A                                   |

<sup>&</sup>lt;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.

N/A, Not Applicable

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<sup>&</sup>lt;sup>2</sup>If race is not reported, reported race is classified as "Unknown" which is a non-missing value in the Sentinel Database. The purpose of the "Has non-missing reported race" cohort was to describe all enrollees in the data with at least one encounter qualifying the inclusion criteria during 2020-2021.

<sup>&</sup>lt;sup>3</sup>Only four DPs impute race; for all other DPs, imputed race data is unavailable. DPs have their own methods of imputing and race may not be imputed for all enrollees. DPs can impute the race of any enrollee, regardless of whether their reported race is "Unknown." As a result, even among DPs that perform imputation, enrollees with any value for reported race may receive any imputed race value, including "Unknown," or may have missing imputed race.

<sup>\*\*\*\*\*</sup>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 7. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2020 to December 31, 2021, by

Race and Age Group

|                          | Members with an              | Eligible             | Number of Members with an<br>Index Date per 10K Eligible | Total Number of | Eligible Member    |
|--------------------------|------------------------------|----------------------|--|-----------------|--------------------|
|                          | Index Date                   | Members <sup>1</sup> | Members <sup>1</sup>                                     | Index Dates     | Years <sup>1</sup> |
| Capture of Other Confou  | ınding Covariates            |                      |  |                 |                    |
| Has non-missing value fo | r reported race <sup>2</sup> |                      |  |                 |                    |
| American Indian or Alask | a Native                     |                      |  |                 |                    |
| 0-17 years               | 396,550                      | 440,523              | 9,001.80   | 396,550         | N/A                |
| 18-43 years              | 324,378                      | 392,672              | 8,260.79   | 324,378         | N/A                |
| 44-64 years              | 182,044                      | 205,185              | 8,872.19   | 182,044         | N/A                |
| ≥ 65 years               | 95,072                       | 100,070              | 9,500.55   | 95,072          | N/A                |
| Asian                    |                              |                      |  |                 |                    |
| 0-17 years               | 1,178,226                    | 1,330,445            | 8,855.88   | 1,178,226       | N/A                |
| 18-43 years              | 1,258,264                    | 1,631,235            | 7,713.57   | 1,258,264       | N/A                |
| 44-64 years              | 942,107                      | 1,098,882            | 8,573.32   | 942,107         | N/A                |
| ≥ 65 years               | 704,931                      | 775,733              | 9,087.29   | 704,931         | N/A                |
| Black or African America | n                            |                      |  |                 |                    |
| 0-17 years               | 6,226,917                    | 7,091,028            | 8,781.40   | 6,226,917       | N/A                |
| 18-43 years              | 4,429,848                    | 5,554,207            | 7,975.66   | 4,429,848       | N/A                |
| 44-64 years              | 2,649,708                    | 3,014,526            | 8,789.80   | 2,649,708       | N/A                |
| ≥ 65 years               | 2,104,412                    | 2,236,762            | 9,408.30   | 2,104,412       | N/A                |
| Multi-racial             |                              |                      |  |                 |                    |
| 0-17 years               | 456,988                      | 500,612              | 9,128.59   | 456,988         | N/A                |
| 18-43 years              | 383,492                      | 451,694              | 8,490.08   | 383,492         | N/A                |
| 44-64 years              | 222,352                      | 240,123              | 9,259.92   | 222,352         | N/A                |
| ≥ 65 years               | 42,733                       | 44,606               | 9,580.10   | 42,733          | N/A                |
| Native Hawaiian or Othe  | r Pacific Islander           |                      |  |                 |                    |
| 0-17 years               | 147,259                      | 174,516              | 8,438.14   | 147,259         | N/A                |
| 18-43 years              | 119,234                      | 160,067              | 7,449.01   | 119,234         | N/A                |
| 44-64 years              | 63,826                       | 77,493               | 8,236.36   | 63,826          | N/A                |
| ≥ 65 years               | 61,422                       | 68,596               | 8,954.17   | 61,422          | N/A                |
| Unknown                  |                              |                      |  |                 |                    |
| 0-17 years               | 17,138,371                   | 19,859,477           | 8,629.82   | 17,138,371      | N/A                |
| 18-43 years              | 13,478,029                   | 18,457,037           | 7,302.38   | 13,478,029      | N/A                |
| 44-64 years              | 8,869,467                    | 10,886,289           | 8,147.37   | 8,869,467       | N/A                |
| ≥ 65 years               | 2,293,278                    | 2,619,628            | 8,754.21   | 2,293,278       | N/A                |
| White                    |                              |                      |  |                 |                    |
| 0-17 years               | 11,986,286                   | 13,372,110           | 8,963.65   | 11,986,286      | N/A                |
| 18-43 years              | 11,400,067                   | 13,938,715           | 8,178.71   | 11,400,067      | N/A                |
|                          |                              |                      |  |                 |                    |

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Table 7. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2020 to December 31, 2021, by

**Race and Age Group** 

|             | Members with an Index Date | Eligible<br>Members <sup>1</sup> | Number of Members with an Index Date per 10K Eligible Members <sup>1</sup> | Total Number of Index Dates | Eligible Member<br>Years <sup>1</sup> |
|-------------|----------------------------|----------------------------------|--|-----------------------------|---------------------------------------|
| 44-64 years | 9,656,154                  | 10,774,395                       | 8,962.13   | 9,656,154                   | N/A                                   |
| ≥ 65 years  | 21,986,952                 | 22,626,796                       | 9,717.22   | 21,986,952                  | N/A                                   |

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Table 7. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2020 to December 31, 2021, by

Race and Age Group

|                          |                     | E11 .11 1            | Number of Members with an   |                 |                    |
|--------------------------|---------------------|----------------------|-----------------------------|-----------------|--------------------|
|                          | Members with an     | Eligible             | Index Date per 10K Eligible | Total Number of | Eligible Member    |
| Harana an insina a calca | Index Date          | Members <sup>1</sup> | Members <sup>1</sup>        | Index Dates     | Years <sup>1</sup> |
| Has non-missing value j  | •                   |                      |                             |                 |                    |
| American Indian or Alas  |                     |                      |                             |                 |                    |
| 0-17 years               | 411                 | 581                  | 7,074.01                    | 411             | N/A                |
| 18-43 years              | 11,988              | 13,341               | 8,985.83                    | 11,988          | N/A                |
| 44-64 years              | 30,073              | 31,792               | 9,459.30                    | 30,073          | N/A                |
| ≥ 65 years               | 72,714              | 75,274               | 9,659.91                    | 72,714          | N/A                |
| Asian                    |                     |                      |                             |                 |                    |
| 0-17 years               | 47,642              | 57,611               | 8,269.60                    | 47,642          | N/A                |
| 18-43 years              | 90,215              | 124,897              | 7,223.15                    | 90,215          | N/A                |
| 44-64 years              | 86,282              | 101,263              | 8,520.59                    | 86,282          | N/A                |
| ≥ 65 years               | 613,374             | 651,342              | 9,417.08                    | 613,374         | N/A                |
| Black or African Americ  | an                  |                      |                             |                 |                    |
| 0-17 years               | 214,544             | 264,144              | 8,122.24                    | 214,544         | N/A                |
| 18-43 years              | 346,331             | 435,105              | 7,959.71                    | 346,331         | N/A                |
| 44-64 years              | 554,155             | 611,528              | 9,061.81                    | 554,155         | N/A                |
| ≥ 65 years               | 1,206,358           | 1,275,444            | 9,458.34                    | 1,206,358       | N/A                |
| Multi-racial             |                     |                      |                             |                 |                    |
| 0-17 years               | ****                | ****                 | 8,048.78                    | ****            | N/A                |
| 18-43 years              | ****                | ****                 | 8,000.00                    | ****            | N/A                |
| 44-64 years              | ****                | ****                 | 9,696.97                    | ****            | N/A                |
| ≥ 65 years               | ****                | ****                 | 9,565.22                    | ****            | N/A                |
| Native Hawaiian or Oth   | er Pacific Islander |                      |                             |                 |                    |
| 0-17 years               | ****                | ****                 | 8,333.33                    | ****            | N/A                |
| 18-43 years              | ****                | ****                 | 5,000.00                    | ****            | N/A                |
| 44-64 years              | 0                   | 0                    | NaN                         | 0               | N/A                |
| ≥ 65 years               | 0                   | 0                    | NaN                         | 0               | N/A                |
| Unknown                  |                     |                      |                             |                 |                    |
| 0-17 years               | 676,945             | 829,512              | 8,160.76                    | 676,945         | N/A                |
| 18-43 years              | 1,249,098           | 1,670,897            | 7,475.61                    | 1,249,098       | N/A                |
| 44-64 years              | 1,074,393           | 1,262,609            | 8,509.31                    | 1,074,393       | N/A                |
| ,<br>≥ 65 years          | 1,727,788           | 1,860,099            | 9,288.69                    | 1,727,788       | N/A                |
| White                    |                     |                      | ·                           | •               | -                  |
| 0-17 years               | 1,311,823           | 1,534,322            | 8,549.85                    | 1,311,823       | N/A                |
| 18-43 years              | 2,025,139           | 2,566,963            | 7,889.24                    | 2,025,139       | ,<br>N/A           |
| 44-64 years              | 2,935,355           | 3,261,889            | 8,998.94                    | 2,935,355       | N/A                |
| ,                        | _,= 30,000          | -,,                  | -,-30.0 .                   | =,==0,000       | , , .              |

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Table 7. Summary of Exposures of Interest in the Sentinel Distributed Database from January 1, 2020 to December 31, 2021, by Race and Age Group

|            | Members with an Index Date | Eligible<br>Members <sup>1</sup> | Number of Members with an Index Date per 10K Eligible Members <sup>1</sup> | Total Number of Index Dates | Eligible Member<br>Years <sup>1</sup> |
|------------|----------------------------|----------------------------------|--|-----------------------------|---------------------------------------|
| ≥ 65 years | 16,410,734                 | 16,776,123                       | 9,782.20   | 16,410,734                  | N/A                                   |

<sup>&</sup>lt;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.

N/A, Not Applicable.

Data represented by NaN (Not a Number) is due to their inability to be calculated.

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<sup>&</sup>lt;sup>2</sup>If race is not reported, reported race is classified as "Unknown" which is a non-missing value in the Sentinel Database. The purpose of the "Has non-missing reported race" cohort was to describe all enrollees in the data with at least one encounter qualifying the inclusion criteria during 2020-2021.

<sup>&</sup>lt;sup>3</sup>Only four DPs impute race; for all other DPs, imputed race data is unavailable. DPs have their own methods of imputing and race may not be imputed for all enrollees. DPs can impute the race of any enrollee, regardless of whether their reported race is "Unknown." As a result, even among DPs that perform imputation, enrollees with any value for reported race may receive any imputed race value, including "Unknown," or may have missing imputed race.

<sup>\*\*\*\*\*</sup>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 8a. Summary of Episode-Level<sup>1</sup> Cohort Attrition in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|  | Incident Capture (365-Day Washout) of Confounding Conditions |             |             |             |             |             |  |  |
|--|--|-------------|-------------|-------------|-------------|-------------|--|--|
|  | Inciden  | t Obesity   | Incident C  | verweight   | Incident    | Smoking     |  |  |
|  | Remaining  | Excluded    | Remaining   | Excluded    | Remaining   | Excluded    |  |  |
| Members meeting enrollment and demographic requirem                          | ents   |             |             |             |             |             |  |  |
| Enrolled at any point during the query period                                | 481,739,740  | N/A         | 481,739,740 | N/A         | 481,739,740 | N/A         |  |  |
| Had required coverage type (medical and/or drug coverage)                    | 358,297,825  | 123,441,915 | 358,297,825 | 123,441,915 | 358,297,825 | 123,441,915 |  |  |
| Enrolled during specified age range  | 358,292,794  | 5,031       | 358,292,794 | 5,031       | 358,292,794 | 5,031       |  |  |
| Had requestable medical charts   | 358,292,794  | 0           | 358,292,794 | 0           | 358,292,794 | 0           |  |  |
| Met demographic requirements (sex, race, and Hispanic origin)                | 358,153,393  | 139,401     | 358,153,393 | 139,401     | 358,153,393 | 139,401     |  |  |
| Members with a valid index event   |  |             |             |             |             |             |  |  |
| Had any cohort-defining claim during the query period                        | 63,994,428   | 294,158,965 | 33,964,224  | 324,189,169 | 62,848,719  | 295,304,674 |  |  |
| Cohort episodes with a valid index date                                      |  |             |             |             |             |             |  |  |
| Total number of claims with cohort-identifying codes during the query period | 403,389,659  | N/A         | 112,777,196 | N/A         | 396,919,647 | N/A         |  |  |
| Claim recorded during specified age range                                    | 403,388,437  | 1,222       | 112,776,905 | 291         | 396,918,369 | 1,278       |  |  |
| Episode defining index claim recorded during the query period                | 96,677,060   | 306,711,377 | 44,745,300  | 68,031,605  | 98,191,397  | 298,726,972 |  |  |
| Cohort episodes with required pre-index history                              |  |             |             |             |             |             |  |  |
| Had sufficient pre-index continuous enrollment                               | 62,961,256   | 33,715,804  | 32,452,570  | 12,292,730  | 63,427,747  | 34,763,650  |  |  |
| Met inclusion and exclusion criteria   | 62,961,256   | 0           | 32,452,570  | 0           | 63,427,747  | 0           |  |  |
| Had sufficient post-index continuous enrollment                              | 62,961,256   | 0           | 32,452,570  | 0           | 63,427,747  | 0           |  |  |
| Final cohort   |  |             |             |             |             |             |  |  |
| Number of members  | 41,808,406   | N/A         | 24,525,780  | N/A         | 40,664,965  | N/A         |  |  |
| Number of episodes   | 62,961,256   | N/A         | 32,452,570  | N/A         | 63,427,747  | N/A         |  |  |

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Table 8a. Summary of Episode-Level<sup>1</sup> Cohort Attrition in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|   | Incident Capture (365-Day Washout) of Confounding Conditions |              |             |             |                |                |                |               |
|---|--|--------------|-------------|-------------|----------------|----------------|----------------|---------------|
|   | Incident Alco  | hol Abuse or | Incident Dr | ug Abuse or | Incident Histo | ory of CABG or | Incident Histo | ory of Sudden |
|   | Deper  | ndence       | Deper       | idence      | PT             | CA             | Cardiac Arrest |               |
|   | Remaining  | Excluded     | Remaining   | Excluded    | Remaining      | Excluded       | Remaining      | Excluded      |
| Members meeting enrollment and demographic      | c requirements   |              |             |             |                |                |                |               |
| Enrolled at any point during the query period   | 481,739,740  | N/A          | 481,739,740 | N/A         | 481,739,740    | N/A            | 481,739,740    | N/A           |
| Had required coverage type (medical and/or      | 358,297,825  | 123,441,915  | 358,297,825 | 123,441,915 | 358,297,825    | 123,441,915    | 358,297,825    | 123,441,915   |
| drug coverage)                                  |  |              |             |             |                |                |                |               |
| Enrolled during specified age range             | 358,292,794  | 5,031        | 358,292,794 | 5,031       | 358,292,794    | 5,031          | 358,292,794    | 5,031         |
| Had requestable medical charts                  | 358,292,794  | 0            | 358,292,794 | 0           | 358,292,794    | 0              | 358,292,794    | 0             |
| Met demographic requirements (sex, race, and    | 358,153,393  | 139,401      | 358,153,393 | 139,401     | 358,153,393    | 139,401        | 358,153,393    | 139,401       |
| Hispanic origin)                                |  |              |             |             |                |                |                |               |
| Members with a valid index event                |  |              |             |             |                |                |                |               |
| Had any cohort-defining claim during the query  | 13,244,352   | 344,909,041  | 13,923,983  | 344,229,410 | 10,902,285     | 347,251,108    | 3,642,307      | 354,511,086   |
| period  |  |              |             |             |                |                |                |               |
| Cohort episodes with a valid index date         |  |              |             |             |                |                |                |               |
| Total number of claims with cohort-identifying  | 148,191,695  | N/A          | 96,266,532  | N/A         | 123,054,136    | N/A            | 11,523,928     | N/A           |
| codes during the query period                   |  |              |             |             |                |                |                |               |
| Claim recorded during specified age range       | 148,191,302  | 393          | 96,266,159  | 373         | 123,053,918    | 218            | 11,523,840     | 88            |
| Episode defining index claim recorded during    | 16,778,465   | 131,412,837  | 17,644,797  | 78,621,362  | 18,626,258     | 104,427,660    | 3,831,179      | 7,692,661     |
| the query period                                |  |              |             |             |                |                |                |               |
| Cohort episodes with required pre-index history | /  |              |             |             |                |                |                |               |
| Had sufficient pre-index continuous enrollment  | 10,133,623   | 6,644,842    | 10,838,956  | 6,805,841   | 13,582,256     | 5,044,002      | 2,975,718      | 855,461       |
| Met inclusion and exclusion criteria            | 10,133,623   | 0            | 10,838,956  | 0           | 13,582,256     | 0              | 2,975,718      | 0             |
| Had sufficient post-index continuous            | 10,133,623   | 0            | 10,838,956  | 0           | 13,582,256     | 0              | 2,975,718      | 0             |
| enrollment                                      |  |              |             |             |                |                |                |               |
| Final cohort                                    |  |              |             |             |                |                |                |               |
| Number of members                               | 8,161,856  | N/A          | 8,826,792   | N/A         | 8,019,614      | N/A            | 2,836,414      | N/A           |
| Number of episodes                              | 10,133,623   | N/A          | 10,838,956  | N/A         | 13,582,256     | N/A            | 2,975,718      | N/A           |

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Table 8a. Summary of Episode-Level<sup>1</sup> Cohort Attrition in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|  | Prevalent Capture of Confounding Conditions |             |             |             |             |             |  |  |
|--|---|-------------|-------------|-------------|-------------|-------------|--|--|
|  | Prevaler                                    | nt Obesity  | Prevalent ( | Overweight  | Prevalent   | t Smoking   |  |  |
|  | Remaining                                   | Excluded    | Remaining   | Excluded    | Remaining   | Excluded    |  |  |
| Members meeting enrollment and demographic                                   | requirements                                |             |             |             |             |             |  |  |
| Enrolled at any point during the query period                                | 481,739,740                                 | N/A         | 481,739,740 | N/A         | 481,739,740 | N/A         |  |  |
| Had required coverage type (medical and/or drug coverage)                    | 358,297,825                                 | 123,441,915 | 358,297,825 | 123,441,915 | 358,297,825 | 123,441,915 |  |  |
| Enrolled during specified age range  | 358,292,794                                 | 5,031       | 358,292,794 | 5,031       | 358,292,794 | 5,031       |  |  |
| Had requestable medical charts   | 358,292,794                                 | 0           | 358,292,794 | 0           | 358,292,794 | 0           |  |  |
| Met demographic requirements (sex, race, and Hispanic origin)                | 358,153,393                                 | 139,401     | 358,153,393 | 139,401     | 358,153,393 | 139,401     |  |  |
| Members with a valid index event   |   |             |             |             |             |             |  |  |
| Had any cohort-defining claim during the query period                        | 63,994,428                                  | 294,158,965 | 33,964,224  | 324,189,169 | 62,848,719  | 295,304,674 |  |  |
| Cohort episodes with a valid index date                                      |   |             |             |             |             |             |  |  |
| Total number of claims with cohort-identifying codes during the query period | 403,389,659                                 | N/A         | 112,777,196 | N/A         | 396,919,647 | N/A         |  |  |
| Claim recorded during specified age range                                    | 403,388,437                                 | 1,222       | 112,776,905 | 291         | 396,918,369 | 1,278       |  |  |
| Episode defining index claim recorded during the query period                | 403,388,437                                 | 0           | 112,776,905 | 0           | 396,918,369 | 0           |  |  |
| Cohort episodes with required pre-index history                              |   |             |             |             |             |             |  |  |
| Had sufficient pre-index continuous enrollment                               | 316,262,801                                 | 87,125,636  | 91,347,478  | 21,429,427  | 307,530,400 | 89,387,969  |  |  |
| Met inclusion and exclusion criteria   | 316,262,801                                 | 0           | 91,347,478  | 0           | 307,530,400 | 0           |  |  |
| Had sufficient post-index continuous enrollment                              | 316,262,801                                 | 0           | 91,347,478  | 0           | 307,530,400 | 0           |  |  |
| Final cohort   |   |             |             |             |             |             |  |  |
| Number of members  | 48,379,256                                  | N/A         | 26,351,868  | N/A         | 46,526,773  | N/A         |  |  |
| Number of episodes   | 316,262,801                                 | N/A         | 91,347,478  | N/A         | 307,530,400 | N/A         |  |  |

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Table 8a. Summary of Episode-Level<sup>1</sup> Cohort Attrition in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|  | Prevalent Capture of Confounding Conditions |             |             |                                    |             |                |             |                            |
|--|---|-------------|-------------|------------------------------------|-------------|----------------|-------------|----------------------------|
|  | Prevalent Alcohol Abuse or<br>Dependence    |             |             | t Drug Abuse or Prevalent pendence |             | ory of CABG or |             | cory of Sudden<br>C Arrest |
|  | Remaining                                   | Excluded    | Remaining   | Excluded                           | Remaining   | Excluded       | Remaining   | Excluded                   |
| Members meeting enrollment and demographic re-                               | quirements                                  |             |             |                                    |             |                |             |                            |
| Enrolled at any point during the query period                                | 481,739,740                                 | N/A         | 481,739,740 | N/A                                | 481,739,740 | N/A            | 481,739,740 | N/A                        |
| Had required coverage type (medical and/or drug coverage)                    | 358,297,825                                 | 123,441,915 | 358,297,825 | 123,441,915                        | 358,297,825 | 123,441,915    | 358,297,825 | 123,441,915                |
| Enrolled during specified age range  | 358,292,794                                 | 5,031       | 358,292,794 | 5,031                              | 358,292,794 | 5,031          | 358,292,794 | 5,031                      |
| Had requestable medical charts   | 358,292,794                                 | 0           | 358,292,794 | 0                                  | 358,292,794 | 0              | 358,292,794 | 0                          |
| Met demographic requirements (sex, race, and Hispanic origin)                | 358,153,393                                 | 139,401     | 358,153,393 | 139,401                            | 358,153,393 | 139,401        | 358,153,393 | 139,401                    |
| Members with a valid index event   |   |             |             |                                    |             |                |             |                            |
| Had any cohort-defining claim during the query period                        | 13,244,352                                  | 344,909,041 | 13,923,983  | 344,229,410                        | 10,902,285  | 347,251,108    | 3,642,307   | 354,511,086                |
| Cohort episodes with a valid index date                                      |   |             |             |                                    |             |                |             |                            |
| Total number of claims with cohort-identifying codes during the query period | 148,191,695                                 | N/A         | 96,266,532  | N/A                                | 123,054,136 | N/A            | 11,523,928  | N/A                        |
| Claim recorded during specified age range                                    | 148,191,302                                 | 393         | 96,266,159  | 373                                | 123,053,918 | 218            | 11,523,840  | 88                         |
| Episode defining index claim recorded during the query period                | 148,191,302                                 | 0           | 96,266,159  | 0                                  | 123,053,918 | 0              | 11,523,840  | 0                          |
| Cohort episodes with required pre-index history                              |   |             |             |                                    |             |                |             |                            |
| Had sufficient pre-index continuous enrollment                               | 101,699,694                                 | 46,491,608  | 66,477,840  | 29,788,319                         | 103,308,717 | 19,745,201     | 9,092,987   | 2,430,853                  |
| Met inclusion and exclusion criteria   | 101,699,694                                 | 0           | 66,477,840  | 0                                  | 103,308,717 | 0              | 9,092,987   | 0                          |
| Had sufficient post-index continuous enrollment                              | 101,699,694                                 | 0           | 66,477,840  | 0                                  | 103,308,717 | 0              | 9,092,987   | 0                          |
| Final cohort   |   |             |             |                                    |             |                |             |                            |
| Number of members  | 9,343,054                                   | N/A         | 9,721,582   | N/A                                | 9,095,604   | N/A            | 2,873,004   | N/A                        |
| Number of episodes   | 101,699,694                                 | N/A         | 66,477,840  | N/A                                | 103,308,717 | N/A            | 9,092,987   | N/A                        |

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Table 8a. Summary of Episode-Level<sup>1</sup> Cohort Attrition in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|  | Capture of Other Confounding Covariates          |             |                |   |  |             |  |
|--|--|-------------|----------------|---|--|-------------|--|
|  | Has Diagnosis Code that Indicates a Range of BMI |             | a Range of BMI | de that Indicates<br>that Classifies as | Has Diagnosis Code that Indicates<br>a Range of BMI that Classifies as<br>Overweight |             |  |
|  | Remaining  | Excluded    | Remaining      | Excluded                                | Remaining  | Excluded    |  |
| Members meeting enrollment and demographic requirements                      |  |             |                |   |  |             |  |
| Enrolled at any point during the query period                                | 481,739,740                                      | N/A         | 481,739,740    | N/A                                     | 481,739,740  | N/A         |  |
| Had required coverage type (medical and/or drug coverage)                    | 358,297,825                                      | 123,441,915 | 358,297,825    | 123,441,915                             | 358,297,825  | 123,441,915 |  |
| Enrolled during specified age range  | 358,292,794                                      | 5,031       | 358,292,794    | 5,031                                   | 358,292,794  | 5,031       |  |
| Had requestable medical charts   | 358,292,794                                      | 0           | 358,292,794    | 0                                       | 358,292,794  | 0           |  |
| Met demographic requirements (sex, race, and Hispanic origin)                | 358,153,393                                      | 139,401     | 358,153,393    | 139,401                                 | 358,153,393  | 139,401     |  |
| Members with a valid index event   |  |             |                |   |  |             |  |
| Had any cohort-defining claim during the query period                        | 84,132,049                                       | 274,021,344 | 42,407,883     | 315,745,510                             | 25,847,963   | 332,305,430 |  |
| Cohort episodes with a valid index date                                      |  |             |                |   |  |             |  |
| Total number of claims with cohort-identifying codes during the query period | 375,662,176                                      | N/A         | 198,556,310    | N/A                                     | 88,419,290   | N/A         |  |
| Claim recorded during specified age range                                    | 375,660,765                                      | 1,411       | 198,555,783    | 527                                     | 88,419,095   | 195         |  |
| Episode defining index claim recorded during the query period                | 375,660,765                                      | 0           | 198,555,783    | 0                                       | 88,419,095   | 0           |  |
| Cohort episodes with required pre-index history                              |  |             |                |   |  |             |  |
| Had sufficient pre-index continuous enrollment                               | 302,294,401                                      | 73,366,364  | 158,501,892    | 40,053,891                              | 72,367,526   | 16,051,569  |  |
| Met inclusion and exclusion criteria   | 302,294,401                                      | 0           | 158,501,892    | 0                                       | 72,367,526   | 0           |  |
| Had sufficient post-index continuous enrollment                              | 302,294,401                                      | 0           | 158,501,892    | 0                                       | 72,367,526   | 0           |  |
| Final cohort   |  |             |                |   |  |             |  |
| Number of members  | 64,912,835                                       | N/A         | 32,550,071     | N/A                                     | 20,273,743   | N/A         |  |
| Number of episodes   | 302,294,401                                      | N/A         | 158,501,892    | N/A                                     | 72,367,526   | N/A         |  |

<sup>&</sup>lt;sup>1</sup>Cohorts are formed by first evaluating enrollment and demographic requirements as well as index events among members, then evaluating index dates, pre-index history, and post-index follow-up among episodes. Because of this the number remaining often increases from the member- to episode-level steps

CABG: Coronary Artery Bypass Graft. PTCA: Percutaneous Transluminal Cutaneous Angioplasty

BMI: Body Mass Index N/A: Not Applicable

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Table 8b. Summary of Patient-Level Cohort Attrition in the Sentinel Distributed Database from January 1, 2010 to December 31, 2023

|   | Capture of Other Confounding Covariates |                                   |                     |                                  |  |  |  |
|---|---|-----------------------------------|---------------------|----------------------------------|--|--|--|
|   | Has Non-Missing Valu                    | ie for Reported Race <sup>1</sup> | Has Non-Missing val | ue for Imputed Race <sup>2</sup> |  |  |  |
|   | Remaining                               | Excluded                          | Remaining           | Excluded                         |  |  |  |
| Members Meeting Enrollment and Demographic Requirements       |   |                                   |                     |                                  |  |  |  |
| Enrolled at any point during the query period                 | 227,307,865                             | N/A                               | 227,307,865         | N/A                              |  |  |  |
| Had required coverage type (medical and/or drug coverage)     | 172,959,331                             | 54,348,534                        | 172,959,331         | 54,348,534                       |  |  |  |
| Enrolled during specified age range                           | 172,953,359                             | 5,972                             | 172,953,359         | 5,972                            |  |  |  |
| Had requestable medical charts                                | 172,953,359                             | 0                                 | 172,953,359         | 0                                |  |  |  |
| Met demographic requirements (sex, race, and Hispanic origin) | 172,929,870                             | 23,489                            | 39,873,237          | 133,080,122                      |  |  |  |
| Members with a Valid Index Event                              |   |                                   |                     |                                  |  |  |  |
| Had any cohort-defining claim during the query period         | 150,694,842                             | 22,235,028                        | 36,087,096          | 3,786,141                        |  |  |  |
| Claim recorded during specified age range                     | 150,694,572                             | 270                               | 36,087,044          | 52                               |  |  |  |
| Episode defining index claim recorded during the query period | 150,694,572                             | 0                                 | 36,087,044          | 0                                |  |  |  |
| Members with Required Pre-index History                       |   |                                   |                     |                                  |  |  |  |
| Had sufficient pre-index continuous enrollment                | 118,798,367                             | 31,896,205                        | 30,685,551          | 5,401,493                        |  |  |  |
| Met inclusion and exclusion criteria                          | 118,798,367                             | 0                                 | 30,685,551          | 0                                |  |  |  |
| Members with Required Post-Index Follow-Up                    |   | _                                 | _                   |                                  |  |  |  |
| Had sufficient post-index continuous enrollment               | 118,798,367                             | 0                                 | 30,685,551          | 0                                |  |  |  |
| Final Cohort  |   |                                   |                     |                                  |  |  |  |
| Number of members   | 118,798,367                             | N/A                               | 30,685,551          | N/A                              |  |  |  |
| Number of episodes  | 118,798,367                             | N/A                               | 30,685,551          | N/A                              |  |  |  |

<sup>&</sup>lt;sup>1</sup>If race is not reported, reported race is classified as "Unknown" which is a non-missing value in the Sentinel Database. The purpose of the "Has non-missing reported race" cohort was to describe all enrollees in the data with at least one encounter qualifying the inclusion criteria during 2020-2021..

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<sup>&</sup>lt;sup>2</sup>Only four DPs impute race; for all other DPs, imputed race data is unavailable. DPs have their own methods of imputing and race may not be imputed for all enrollees. DPs can impute the race of any enrollee, regardless of whether their reported race is "Unknown." As a result, even among DPs that perform imputation, enrollees with any value for reported race may receive any imputed race value, including "Unknown," or may have missing imputed race.

N/A, Not Applicable



Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (December 9, 2024)

| Masked DP ID | DP Start Date | DP End Date <sup>1</sup> |
|--------------|---------------|--------------------------|
| DP01         | 01/01/2005    | 07/31/2022               |
| DP02         | 01/01/2000    | 12/31/2023               |
| DP03         | 01/01/2000    | 12/31/2023               |
| DP04         | 01/01/2007    | 12/31/2023               |
| DP05         | 01/01/2010    | 12/31/2023               |
| DP06         | 01/01/2000    | 12/31/2023               |
| DP07         | 01/01/2014    | 12/31/2021               |
| DP08         | 01/01/2000    | 12/31/2023               |
| DP09         | 01/01/2008    | 12/31/2023               |
| DP10         | 01/01/2000    | 12/31/2022               |
| DP11         | 01/01/2008    | 12/31/2023               |
| DP12         | 01/01/2004    | 12/31/2023               |
| DP13         | 01/01/2000    | 12/31/2023               |
| DP14         | 01/01/2006    | 12/31/2023               |

<sup>&</sup>lt;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.

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code   | Description   | Code Category | Code Type    |
|--------|---|---------------|--------------|
|        | Obesity Diagnosis Codes   |               |              |
| 278.00 | Obesity, unspecified  | Diagnosis     | ICD-9-CM     |
| 278.01 | Morbid obesity  | Diagnosis     | ICD-9-CM     |
| 278.03 | Obesity hypoventilation syndrome                                    | Diagnosis     | ICD-9-CM     |
| 539.0  | Complications of gastric band procedure                             | Diagnosis     | ICD-9-CM     |
| 539.01 | Infection due to gastric band procedure                             | Diagnosis     | ICD-9-CM     |
| 539.09 | Other complications of gastric band procedure                       | Diagnosis     | ICD-9-CM     |
| 539.8  | Complications of other bariatric procedure                          | Diagnosis     | ICD-9-CM     |
| 539.81 | Infection due to other bariatric procedure                          | Diagnosis     | ICD-9-CM     |
| 539.89 | Other complications of other bariatric procedure                    | Diagnosis     | ICD-9-CM     |
| 649.1  | Obesity complicating pregnancy, childbirth, or the puerperium       | Diagnosis     | ICD-9-CM     |
| 649.10 | Obesity complicating pregnancy, childbirth, or the puerperium,      | Diagnosis     | ICD-9-CM     |
|        | unspecified as to episode of care or not applicable                 | •             |              |
| 649.11 | Obesity complicating pregnancy, childbirth, or the puerperium,      | Diagnosis     | ICD-9-CM     |
|        | delivered, with or without mention of antepartum condition          | J             |              |
| 649.12 | Obesity complicating pregnancy, childbirth, or the puerperium,      | Diagnosis     | ICD-9-CM     |
|        | delivered, with mention of postpartum complication                  | •             |              |
| 649.13 | Obesity complicating pregnancy, childbirth, or the puerperium,      | Diagnosis     | ICD-9-CM     |
|        | antepartum condition or complication                                | J             |              |
| 649.14 | Obesity complicating pregnancy, childbirth, or the puerperium,      | Diagnosis     | ICD-9-CM     |
|        | postpartum condition or complication                                | J             |              |
| 649.2  | Bariatric surgery status complicating pregnancy, childbirth, or the | Diagnosis     | ICD-9-CM     |
|        | puerperium  |               |              |
| 649.20 | Bariatric surgery status complicating pregnancy, childbirth, or the | Diagnosis     | ICD-9-CM     |
|        | puerperium, unspecified as to episode of care or not applicable     |               |              |
| 649.21 | Bariatric surgery status complicating pregnancy, childbirth, or the | Diagnosis     | ICD-9-CM     |
|        | puerperium, delivered, with or without mention of antepartum        | J             |              |
|        | condition   |               |              |
| 649.22 | Bariatric surgery status complicating pregnancy, childbirth, or the | Diagnosis     | ICD-9-CM     |
|        | puerperium, delivered, with mention of postpartum complication      |               |              |
| 649.23 | Bariatric surgery status complicating pregnancy, childbirth, or the | Diagnosis     | ICD-9-CM     |
|        | puerperium, antepartum condition or complication                    |               |              |
| 649.24 | Bariatric surgery status complicating pregnancy, childbirth, or the | Diagnosis     | ICD-9-CM     |
|        | puerperium, postpartum condition or complication                    | .0            |              |
| 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    |
| E66.8  | Other obesity   | Diagnosis     | ICD-10-CM    |
| E66.9  | Obesity, unspecified  | Diagnosis     | ICD-10-CM    |
| K95.01 | Infection due to gastric band procedure                             | Diagnosis     | ICD-10-CM    |
| K95.09 | Other complications of gastric band procedure                       | Diagnosis     | ICD-10-CM    |
| K95.81 | Infection due to other bariatric procedure                          | Diagnosis     | ICD-10-CM    |
| K95.89 | Other complications of other bariatric procedure                    | Diagnosis     | ICD-10-CM    |
|        | State Sample and of State Samuelle procedure                        | 2105110010    | . 35 25 5141 |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| O99.21  | Obesity complicating pregnancy, childbirth, and the puerperium         | Diagnosis     | ICD-10-CM |
| 099.210 | Obesity complicating pregnancy, unspecified trimester                  | Diagnosis     | ICD-10-CM |
| 099.211 | Obesity complicating pregnancy, first trimester                        | Diagnosis     | ICD-10-CM |
| 099.212 | Obesity complicating pregnancy, second trimester                       | Diagnosis     | ICD-10-CM |
| 099.213 | Obesity complicating pregnancy, third trimester                        | Diagnosis     | ICD-10-CM |
| 099.214 | Obesity complicating childbirth  | Diagnosis     | ICD-10-CM |
| 099.215 | Obesity complicating the puerperium                                    | Diagnosis     | ICD-10-CM |
| O99.840 | Bariatric surgery status complicating pregnancy, unspecified trimester | Diagnosis     | ICD-10-CM |
| 099.841 | Bariatric surgery status complicating pregnancy, first trimester       | Diagnosis     | ICD-10-CM |
| 099.842 | Bariatric surgery status complicating pregnancy, institumester         | Diagnosis     | ICD-10-CM |
| 099.843 | Bariatric surgery status complicating pregnancy, third trimester       | Diagnosis     | ICD-10-CM |
| O99.844 | Bariatric surgery status complicating pregnancy, time timester         | Diagnosis     | ICD-10-CM |
| O99.845 | Bariatric surgery status complicating trimobiliti                      | Diagnosis     | ICD-10-CM |
| V85.3   | Body Mass Index between 30-39, adult                                   | Diagnosis     | ICD-9-CM  |
| V85.30  | Body Mass Index 30.0-30.9, adult                                       | Diagnosis     | ICD-9-CM  |
| V85.31  | Body Mass Index 31.0-31.9, adult                                       | Diagnosis     | ICD-9-CM  |
| V85.32  | Body Mass Index 32.0-32.9, adult                                       | Diagnosis     | ICD-9-CM  |
| V85.33  | Body Mass Index 33.0-33.9, adult                                       | Diagnosis     | ICD-9-CM  |
| V85.34  | Body Mass Index 34.0-34.9, adult                                       | Diagnosis     | ICD-9-CM  |
| V85.35  | Body Mass Index 35.0-35.9, adult                                       | Diagnosis     | ICD-9-CM  |
| V85.36  | Body Mass Index 36.0-36.9, adult                                       | Diagnosis     | ICD-9-CM  |
| V85.37  | Body Mass Index 37.0-37.9, adult                                       | Diagnosis     | ICD-9-CM  |
| V85.38  | Body Mass Index 38.0-38.9, adult                                       | Diagnosis     | ICD-9-CM  |
| V85.39  | Body Mass Index 39.0-39.9, adult                                       | Diagnosis     | ICD-9-CM  |
| V85.4   | Body Mass Index 40 and over, adult                                     | Diagnosis     | ICD-9-CM  |
| V85.41  | Body Mass Index 40.0-44.9, adult                                       | Diagnosis     | ICD-9-CM  |
| V85.42  | Body Mass Index 45.0-49.9, adult                                       | Diagnosis     | ICD-9-CM  |
| V85.43  | Body Mass Index 50.0-59.9, adult                                       | Diagnosis     | ICD-9-CM  |
| V85.44  | Body Mass Index 60.0-69.9, adult                                       | Diagnosis     | ICD-9-CM  |
| V85.45  | Body Mass Index 70 and over, adult                                     | Diagnosis     | ICD-9-CM  |
| V85.54  | Body Mass Index, pediatric, greater than or equal to 95th percentile   | Diagnosis     | ICD-9-CM  |
|         | for age  | •             |           |
| 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 |
| 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 |
| Z68.41  | 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 |
|         |  |               |           |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| 268.44 Body mass index [BMI] 50.0-59.9, adult Diagnosis ICD-10-CM 268.45 Body mass index [BMI] 60.0-69, adult Diagnosis ICD-10-CM 268.45 Body mass index [BMI] 70 or greater, adult Diagnosis ICD-10-CM 268.45 Body mass index [BMI] 70 or greater, adult Diagnosis ICD-10-CM 268.46 Body mass index [BMI] pediatric, greater than or equal to 95th Diagnosis ICD-10-CM 268.55 BMI PED 120% TO < 140% OF 95TH PERCNTL FOR AGE Diagnosis ICD-10-CM 268.55 BMI PED 120% TO < 140% OF 95TH PERCNTL FOR AGE Diagnosis ICD-10-CM 268.55 BMI PED 170 140% OF THE 95TH PERCNTL FOR AGE Diagnosis ICD-9-CM 278.00 Overweight and obesity Diagnosis ICD-9-CM 278.01 Overweight and obesity Diagnosis ICD-9-CM 278.02 Overweight Diagnosis ICD-9-CM 278.03 Overweight Diagnosis ICD-9-CM 278.04 Diagnosis ICD-9-CM 278.05 Diagnosis ICD-9-CM 278.06 Overweight and obesity Diagnosis ICD-9-CM 278.06 Overweight Diagnosis ICD-9-CM 278.07 Diagnosis ICD-9-CM 278.08 Diagnosis ICD-9-CM 278.09 Diagnosis ICD-9-CM 278.00 Diagnosis ICD-9-CM 278.00 Diagnosis ICD-9-CM 278.01 Diagnosis ICD-9-CM 278.02 Diagnosis ICD-9-CM 278.03 Body Mass Index 25-0-25.9, adult Diagnosis ICD-9-CM 278.04 Diagnosis ICD-9-CM 278.05 Diagnosis ICD-9-CM 278.05 Diagnosis ICD-9-CM 278.06 Diagnosis ICD-9-CM 278.06 Diagnosis ICD-9-CM 278.07 Diagnosis ICD-9-CM 278.08 Body Mass Index 28-0-28.9, adult Diagnosis ICD-9-CM 278.09 Diagnosis ICD-9-CM 278.09 Diagnosis ICD-9-CM 278.00 Diagnosis ICD-9-CM | Code     | Description  | Code Category | Code Type   |
|--|----------|--|---------------|-------------|
| 268.45 Body mass index [BMI] 70 or greater, adult Diagnosis ICD-10-CM 268.54 Body mass index [BMI] pediatric, greater than or equal to 95th Diagnosis ICD-10-CM percentile for age 268.55 BMI PED 120% TO 2 410% OF 95TH PERCNTL FOR AGE Diagnosis ICD-10-CM 268.55 BMI PED 120% TO 2 410% OF THE 95TH PERCNTL FOR AGE Diagnosis ICD-10-CM 268.25 BMI PED 2/= TO 140% OF THE 95TH PERCNTL FOR AGE Diagnosis ICD-9-CM 278.0 Overweight, obesity and other hyperalimentation Diagnosis ICD-9-CM 278.0 Overweight and obesity Diagnosis ICD-9-CM Diagnosis ICD-9-CM 278.0 Overweight and obesity Diagnosis ICD-9-CM Diagnosis | Z68.43   | Body mass index [BMI] 50.0-59.9, adult                         | Diagnosis     | ICD-10-CM   |
| 268.54 Body mass index [BMI] pediatric, greater than or equal to 95th percentile for age 268.55 BMI PED 120% TO < 140% OF 95TH PERCNTL FOR AGE Diagnosis ICD-10-CM 268.56 BMI PED 2/= TO 140% OF THE 95TH PERCNTL FOR AGE Diagnosis ICD-9-CM 278.0 Overweight, obesity and other hyperalimentation Diagnosis ICD-9-CM 278.0 Overweight and obesity Diagnosis ICD-10-CM 278.0 Overweight and obesity Diagnosis ICD-10-CM 278.0 Overweight Diagnosis ICD-10-CM 278.0 Overweight Diagnosis ICD-10-CM 278.0 Overweight Diagnosis ICD-10-CM 278.0 Overweight Diagnosis ICD-9-CM 278.0 Overweight Diagnosis ICD-9-CM 278.0 Diagnos | Z68.44   | Body mass index [BMI] 60.0-69.9, adult                         | Diagnosis     | ICD-10-CM   |
| percentile for age  268.55 BMI PED 120% TO <140% OF 95TH PERCNTL FOR AGE Diagnosis ICD-10-CM  8MI PED > TO 140% OF THE 95TH PERCNTL FOR AGE Diagnosis ICD-10-CM    Coverweight, obesity and other hyperalimentation Diagnosis ICD-9-CM   Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-10-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-10-CM Diagnosis ICD-10-CM Diagnosis ICD-9-CM Diag  | Z68.45   | Body mass index [BMI] 70 or greater, adult                     | Diagnosis     | ICD-10-CM   |
| 268.55 BMI PED 120% TO < 140% OF 95TH PERCNTL FOR AGE Diagnosis ICD-10-CM 268.56 BMI PED >/= TO 140% OF THE 95TH PERCNTL FOR AGE Diagnosis ICD-10-CM 268.56 BMI PED >/= TO 140% OF THE 95TH PERCNTL FOR AGE Diagnosis ICD-10-CM 278.0 Overweight, obesity and other hyperalimentation Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-10-CM Diagnosis ICD-9-CM Diagnosis ICD-10-CM Diagnos  | Z68.54   | Body mass index [BMI] pediatric, greater than or equal to 95th | Diagnosis     | ICD-10-CM   |
| Total Content   Total Conten   |          | percentile for age   |               |             |
| Overweight, obesity and other hyperalimentation Diagnosis ICD-9-CM 278.0 Overweight and obesity Diagnosis ICD-9-CM Diagnosis ICD-9-CM 278.02 Overweight and obesity Diagnosis ICD-9-CM Diagnosis ICD-10-CM Diagnosis ICD-10- | Z68.55   | BMI PED 120% TO < 140% OF 95TH PERCNTL FOR AGE                 | Diagnosis     | ICD-10-CM   |
| 278         Overweight, obesity and other hyperalimentation         Diagnosis         ICD-9-CM           278.0         Overweight and obesity         Diagnosis         ICD-9-CM           278.02         Overweight         Diagnosis         ICD-9-CM           E66         Overweight         Diagnosis         ICD-10-CM           E66.3         Overweight         Diagnosis         ICD-10-CM           V85.2.1         Body Mass Index 25.0-25.9, adult         Diagnosis         ICD-9-CM           V85.2.1         Body Mass Index 25.0-25.9, adult         Diagnosis         ICD-9-CM           V85.2.2         Body Mass Index 26.0-26.9, adult         Diagnosis         ICD-9-CM           V85.2.3         Body Mass Index 27.0-27.9, adult         Diagnosis         ICD-9-CM           V85.2.5         Body Mass Index 29.0-29.9, adult         Diagnosis         ICD-9-CM           V85.2.5         Body Mass Index (BMI) 25.0-25.9, adult         Diagnosis         ICD-9-CM           V85.2.5         Body mass index [BMI] 26.0-26.9, adult         Diagnosis         ICD-10-CM           Z68.2.6         Body mass index [BMI] 27.0-27.9, adult         Diagnosis         ICD-10-CM           Z68.2.7         Body mass index [BMI] 27.0-27.9, adult         Diagnosis         ICD-10-CM           Z68.2.7 <td>Z68.56</td> <td>BMI PED &gt;/= TO 140% OF THE 95TH PERCNTL FOR AGE</td> <td>Diagnosis</td> <td>ICD-10-CM</td>   | Z68.56   | BMI PED >/= TO 140% OF THE 95TH PERCNTL FOR AGE                | Diagnosis     | ICD-10-CM   |
| 278.0     Overweight and obesity     Diagnosis     ICD-9-CM       278.02     Overweight     Diagnosis     ICD-9-CM       E66     Overweight and obesity     Diagnosis     ICD-10-CM       E66.3     Overweight     Diagnosis     ICD-10-CM       V85.2     Body Mass Index between 25-29, adult     Diagnosis     ICD-9-CM       V85.21     Body Mass Index 25.0-25.9, adult     Diagnosis     ICD-9-CM       V85.23     Body Mass Index 27.0-27.9, adult     Diagnosis     ICD-9-CM       V85.24     Body Mass Index 28.0-28.9, adult     Diagnosis     ICD-9-CM       V85.25     Body Mass Index 29.0-29.9, adult     Diagnosis     ICD-9-CM       V85.53     Body Mass Index [BMI] 25.0-25.9, adult     Diagnosis     ICD-9-CM       V85.55     Body mass index [BMI] 25.0-25.9, adult     Diagnosis     ICD-10-CM       Z68.26     Body mass index [BMI] 27.0-27.9, adult     Diagnosis     ICD-10-CM       Z68.27     Body mass index [BMI] 28.0-28.9, adult     Diagnosis     ICD-10-CM       Z68.28     Body mass index [BMI] 29.0-29.9, adult     Diagnosis     ICD-10-CM       Z68.29     Body mass index [BMI] 28.0-28.9, adult     Diagnosis     ICD-10-CM       Z68.29     Body mass index [BMI] 28.0-28.9, adult     Diagnosis     ICD-9-CM       Z68.29     Body mass  |          | Overweight Diagnosis Codes                                     |               |             |
| 278.02 Overweight  666 Overweight and obesity  66.3 Overweight  66.3 Diagnosis  60.10-CM  70.10-CM  70. | 278      | Overweight, obesity and other hyperalimentation                | Diagnosis     | ICD-9-CM    |
| E66 Overweight and obesity Diagnosis ICD-10-CM E66.3 Overweight Diagnosis ICD-10-CM Sec.3 Overweight Diagnosis ICD-10-CM Diagnosis ICD-10-CM V85.21 Body Mass Index between 25-29, adult Diagnosis ICD-9-CM V85.21 Body Mass Index 25.0-25.9, adult Diagnosis ICD-9-CM V85.22 Body Mass Index 27.0-27.9, adult Diagnosis ICD-9-CM V85.23 Body Mass Index 28.0-28.9, adult Diagnosis ICD-9-CM V85.24 Body Mass Index 28.0-28.9, adult Diagnosis ICD-9-CM V85.25 Body Mass Index 28.0-28.9, adult Diagnosis ICD-9-CM V85.25 Body Mass Index 29.0-29.9, adult Diagnosis ICD-9-CM V85.53 Body Mass Index pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM Percentile for age Provided Provi | 278.0    | Overweight and obesity   | Diagnosis     | ICD-9-CM    |
| E66.3       Overweight       Diagnosis       ICD-10-CM         V85.2.2       Body Mass Index 25.0-25.9, adult       Diagnosis       ICD-9-CM         V85.21       Body Mass Index 25.0-25.9, adult       Diagnosis       ICD-9-CM         V85.22       Body Mass Index 26.0-26.9, adult       Diagnosis       ICD-9-CM         V85.23       Body Mass Index 28.0-28.9, adult       Diagnosis       ICD-9-CM         V85.24       Body Mass Index 29.0-29.9, adult       Diagnosis       ICD-9-CM         V85.25       Body Mass Index 29.0-29.9, adult       Diagnosis       ICD-9-CM         V85.53       Body Mass Index (BMI) 25.0-25.9, adult       Diagnosis       ICD-10-CM         V85.25       Body mass index [BMI] 25.0-25.9, adult       Diagnosis       ICD-10-CM         Z68.26       Body mass index [BMI] 27.0-27.9, 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] 29.0-29.9, adult       Diagnosis       ICD-10-CM         Z68.29       Body mass index [BMI] pediatric, 85th percentile to less than 95th       Diagnosis       ICD-10-CM         Z68.29       Body mass index [BMI] pediatric, 85th percentile to less than 95th       Diagnosis       ICD-9-CM   | 278.02   | Overweight   | Diagnosis     | ICD-9-CM    |
| V85.2 Body Mass Index between 25-29, adult Diagnosis ICD-9-CM V85.21 Body Mass Index 25.0-25.9, adult Diagnosis ICD-9-CM V85.22 Body Mass Index 26.0-26.9, adult Diagnosis ICD-9-CM V85.23 Body Mass Index 27.0-27.9, adult Diagnosis ICD-9-CM V85.24 Body Mass Index 28.0-28.9, adult Diagnosis ICD-9-CM V85.25 Body Mass Index 29.0-29.9, adult Diagnosis ICD-9-CM V85.25 Body Mass Index 29.0-29.9, adult Diagnosis ICD-9-CM V85.53 Body Mass Index 29.0-29.9, adult Diagnosis ICD-9-CM Diagnosis ICD-10-CM Diagnosis ICD-9-CM | E66      | Overweight and obesity   | Diagnosis     | ICD-10-CM   |
| V85.2 Body Mass Index between 25-29, adult Diagnosis ICD-9-CM V85.21 Body Mass Index 25.0-25.9, adult Diagnosis ICD-9-CM V85.22 Body Mass Index 26.0-26.9, adult Diagnosis ICD-9-CM V85.23 Body Mass Index 27.0-27.9, adult Diagnosis ICD-9-CM V85.24 Body Mass Index 28.0-28.9, adult Diagnosis ICD-9-CM V85.25 Body Mass Index 28.0-29.9, adult Diagnosis ICD-9-CM V85.25 Body Mass Index 29.0-29.9, adult Diagnosis ICD-9-CM V85.25 Body Mass Index 29.0-29.9, adult Diagnosis ICD-9-CM V85.53 Body Mass Index (BMI) 25.0-25.9, adult Diagnosis ICD-9-CM Percentile for age Body mass index [BMI] 25.0-25.9, adult Diagnosis ICD-10-CM Diagnosis ICD-9-CM Dia | E66.3    | Overweight   | Diagnosis     | ICD-10-CM   |
| V85.21 Body Mass Index 25.0-25.9, adult Diagnosis ICD-9-CM V85.22 Body Mass Index 26.0-26.9, adult Diagnosis ICD-9-CM V85.23 Body Mass Index 27.0-27.9, adult Diagnosis ICD-9-CM V85.24 Body Mass Index 28.0-28.9, adult Diagnosis ICD-9-CM V85.25 Body Mass Index 29.0-29.9, adult Diagnosis ICD-9-CM V85.25 Body Mass Index 29.0-29.9, adult Diagnosis ICD-9-CM V85.53 Body Mass Index 29.0-29.9, adult Diagnosis ICD-9-CM Diagnosis ICD-10-CM Diagnosis ICD-9-CM Di | V85.2    | Body Mass Index between 25-29, adult                           | =             | ICD-9-CM    |
| V85.22 Body Mass Index 26.0-26.9, adult Diagnosis ICD-9-CM V85.23 Body Mass Index 27.0-27.9, adult Diagnosis ICD-9-CM V85.24 Body Mass Index 28.0-28.9, adult Diagnosis ICD-9-CM V85.25 Body Mass Index 29.0-29.9, adult Diagnosis ICD-9-CM V85.53 Body Mass Index 29.0-29.9, adult Diagnosis ICD-9-CM V85.54 Body Mass Index Pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM Percentile for age V85.25 Body mass index [BMI] 25.0-25.9, adult Diagnosis ICD-10-CM V85.26 Body mass index [BMI] 26.0-26.9, adult Diagnosis ICD-10-CM V85.27 Body mass index [BMI] 27.0-27.9, adult Diagnosis ICD-10-CM V85.28 Body mass index [BMI] 28.0-28.9, adult Diagnosis ICD-10-CM V85.29 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-10-CM V85.29 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-10-CM V85.29 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-10-CM V85.29 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-10-CM V86.29 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-10-CM V86.29 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-10-CM V86.29 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM V86.20 Tobacco use disorder complicating pregnancy, childbirth, or the Diagnosis ICD-9-CM V86.20 Tobacco use disorder complicating pregnancy, childbirth, or the Diagnosis ICD-9-CM V86.20 Tobacco use disorder complicating pregnancy, childbirth, or the Diagnosis ICD-9-CM V87.00 Tobacco use disorder complicating pregnancy, childbirth, or the Diagnosis ICD-9-CM V88.00 Tobacco use disorder complicating pregnancy, childbirth, or the Diagnosis ICD-9-CM V89.01 Tobacco use disorder complicating pregnancy, childbirth, or the Diagnosis ICD-9-CM V89.03 Tobacco use disorder complicating pregnancy, childbirth, or the Diagnosis ICD-9-CM V89.04 Tobacco use disorder complicating pregnancy, childbirth, or the Diagnosis ICD-9-CM V89.04 Tobacco use disorder complication or complication     |          |  | =             | ICD-9-CM    |
| V85.23       Body Mass Index 27.0-27.9, adult       Diagnosis       ICD-9-CM         V85.24       Body Mass Index 28.0-28.9, adult       Diagnosis       ICD-9-CM         V85.25       Body Mass Index 29.0-29.9, adult       Diagnosis       ICD-9-CM         V85.53       Body Mass Index, pediatric, 85th percentile to less than 95th percentile for age       Diagnosis       ICD-9-CM         268.25       Body mass index [BMI] 25.0-25.9, adult       Diagnosis       ICD-10-CM         268.26       Body mass index [BMI] 26.0-26.9, adult       Diagnosis       ICD-10-CM         268.27       Body mass index [BMI] 28.0-28.9, adult       Diagnosis       ICD-10-CM         268.28       Body mass index [BMI] 29.0-29.9, adult       Diagnosis       ICD-10-CM         268.29       Body mass index [BMI] pediatric, 85th percentile to less than 95th percentile for age       Diagnosis       ICD-10-CM         268.53       Body mass index [BMI] pediatric, 85th percentile to less than 95th percentile for age       Diagnosis       ICD-10-CM         305.1       Nondependent tobacco use disorder       Diagnosis       ICD-9-CM         649.0       Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable       Diagnosis       ICD-9-CM         649.01       Tobacco use disorder complicating pregnancy, childbirth, or   | V85.22   | •  | _             | ICD-9-CM    |
| V85.24 Body Mass Index 28.0-28.9, adult Diagnosis ICD-9-CM V85.25 Body Mass Index 29.0-29.9, adult Diagnosis ICD-9-CM V85.53 Body Mass Index, pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM percentile for age 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 Z68.31 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-10-CM Z68.32 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-10-CM Z68.33 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-10-CM Z68.30 Percentile for age  Smoking Diagnosis Codes  305.1 Nondependent tobacco use disorder Diagnosis ICD-9-CM  |          | •  | •             | ICD-9-CM    |
| V85.25 Body Mass Index 29.0-29.9, adult V85.53 Body Mass Index, pediatric, 85th percentile to less than 95th percentile for age  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] 26.0-27.9, adult Diagnosis ICD-10-CM 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 Z68.53 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-10-CM Z68.54 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-10-CM Z68.55 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM Z68.56 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM Z68.57 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM Z68.58 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM Z68.59 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM Z68.59 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM Z68.59 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM Z68.50 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM Z68.50 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM Z68.50 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM Z68.50 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM Z68.50 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM Z68.50 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM Z68.50 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM Z68.50 Body mass index [BMI] pediatric, 85th percentile to less than 95th pediatric, 85th pediatric, 85th |          | ·  | =             |             |
| V85.53 Body Mass Index, pediatric, 85th percentile to less than 95th percentile for age  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  Z68.53 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-10-CM  Z68.53 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-10-CM  Z68.54 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-10-CM  Z68.55 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-10-CM  Z68.56 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-10-CM  Z68.29 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-10-CM  Z68.29 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-10-CM  Z68.29 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-10-CM  Z68.29 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-10-CM  Z68.29 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-9-CM  Z68.29 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-9-CM  Z68.29 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-9-CM  Z68.29 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-9-CM  Z68.29 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-9-CM  Z68.29 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-9-CM  Z68.29 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-9-CM  Z68.29 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-9-CM  Z68.29 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-9-CM  Z68.29 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-9-CM  Z68.29 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-9-CM  Z68.29 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-9-CM  Z69.04 Diagnosis ICD-9-CM  Z69.05 Body mass index [BMI] 29. |          | •  | =             |             |
| percentile for age  268.25 Body mass index [BMI] 25.0-25.9, adult Diagnosis ICD-10-CM  268.26 Body mass index [BMI] 26.0-26.9, adult Diagnosis ICD-10-CM  268.27 Body mass index [BMI] 27.0-27.9, adult Diagnosis ICD-10-CM  268.28 Body mass index [BMI] 28.0-28.9, adult Diagnosis ICD-10-CM  268.29 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-10-CM  268.53 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-10-CM  268.53 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-10-CM  268.53 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-10-CM  268.53 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-10-CM  268.53 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM  268.53 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM  268.53 Body mass index [BMI] pediatric, 85th percentile to less than 95th Diagnosis ICD-9-CM  268.53 Body mass index [BMI] 29.0-29.9, adult Diagnosis ICD-9-CM  268.54 Body mass index [BMI] 28.0-28.9, adult Diagnosis ICD-9-CM  268.55 Body mass index [BMI] 28.0-28.9, adult Diagnosis ICD-9-CM  268.56 Body mass index [BMI] 28.0-28.9, adult Diagnosis ICD-9-CM  268.26 Body mass index [BMI] 28.0-28.9, adult Diagnosis ICD-9-CM  268.26 Body mass index [BMI] 28.0-28.9, adult Diagnosis ICD-9-CM  268.28 Body mass index [BMI] 28.0-28.9, adult Diagnosis ICD-9-CM  268.28 Body mass index [BMI] 28.0-28.9, adult Diagnosis ICD-9-CM  268.28 Body mass index [BMI] 28.0-28.9, adult Diagnosis ICD-9-CM  268.28 Body mass index [BMI] 28.0-28.9, adult Diagnosis ICD-9-CM  268.28 Body mass index [BMI] 28.0-28.9, adult Diagnosis ICD-9-CM  268.28 Body mass index [BMI] 28.0-28.9, adult Diagnosis ICD-9-CM  268.28 Body mass index [BMI] 28.0-28.9, adult Diagnosis ICD-9-CM  268.53 Body mass index [BMI] 28.0-28.9, adult Diagnosis ICD-9-CM  268.54 Body mass index [BMI] 28.0-28.9, adult Diagnosis ICD-9-CM  269.04 Tobacco use disorder complicating pregnancy, childbirth, or  |          |  | =             |             |
| Z68.25Body mass index [BMI] 25.0-25.9, adultDiagnosisICD-10-CMZ68.26Body mass index [BMI] 26.0-26.9, adultDiagnosisICD-10-CMZ68.27Body mass index [BMI] 27.0-27.9, adultDiagnosisICD-10-CMZ68.28Body mass index [BMI] 28.0-28.9, adultDiagnosisICD-10-CMZ68.29Body mass index [BMI] 29.0-29.9, adultDiagnosisICD-10-CMZ68.53Body mass index [BMI] pediatric, 85th percentile to less than 95th percentile for ageDiagnosisICD-10-CMSmoking Diagnosis Codes305.1Nondependent tobacco use disorderDiagnosisICD-9-CM649.0Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicableDiagnosisICD-9-CM649.01Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum conditionDiagnosisICD-9-CM649.02Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complicationDiagnosisICD-9-CM649.03Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complicationDiagnosisICD-9-CM649.04Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complicationDiagnosisICD-9-CM649.04Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complicationDiagnosisICD-9-CM  |          |  | 0 111         |             |
| Z68.26Body mass index [BMI] 26.0-26.9, adultDiagnosisICD-10-CMZ68.27Body mass index [BMI] 27.0-27.9, adultDiagnosisICD-10-CMZ68.28Body mass index [BMI] 28.0-28.9, adultDiagnosisICD-10-CMZ68.29Body mass index [BMI] 29.0-29.9, adultDiagnosisICD-10-CMZ68.53Body mass index [BMI] pediatric, 85th percentile to less than 95th percentile for ageDiagnosisICD-10-CMSmoking Diagnosis Codes305.1Nondependent tobacco use disorderDiagnosisICD-9-CM649.0Tobacco use disorder complicating pregnancy, childbirth, or the puerperiumDiagnosisICD-9-CM649.00Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicableDiagnosisICD-9-CM649.01Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum conditionDiagnosisICD-9-CM649.02Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complicationDiagnosisICD-9-CM649.03Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complicationDiagnosisICD-9-CM649.04Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complicationDiagnosisICD-9-CM649.04Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complicationDiagnosisICD-9-CM   | Z68.25   |  | Diagnosis     | ICD-10-CM   |
| Z68.27Body mass index [BMI] 27.0-27.9, adultDiagnosisICD-10-CMZ68.28Body mass index [BMI] 28.0-28.9, adultDiagnosisICD-10-CMZ68.29Body mass index [BMI] 29.0-29.9, adultDiagnosisICD-10-CMZ68.53Body mass index [BMI] pediatric, 85th percentile to less than 95th percentile for ageDiagnosisICD-10-CMSmoking Diagnosis Codes305.1Nondependent tobacco use disorderDiagnosisICD-9-CM649.0Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicableDiagnosisICD-9-CM649.01Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum conditionDiagnosisICD-9-CM649.02Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complicationDiagnosisICD-9-CM649.03Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complicationDiagnosisICD-9-CM649.04Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complicationDiagnosisICD-9-CM649.04Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complicationDiagnosisICD-9-CM  |          |  | =             |             |
| Z68.28Body mass index [BMI] 28.0-28.9, adultDiagnosisICD-10-CMZ68.29Body mass index [BMI] 29.0-29.9, adultDiagnosisICD-10-CMZ68.53Body mass index [BMI] pediatric, 85th percentile to less than 95th percentile for ageDiagnosisICD-10-CMSmoking Diagnosis Codes305.1Nondependent tobacco use disorderDiagnosisICD-9-CM649.0Tobacco use disorder complicating pregnancy, childbirth, or the puerperiumDiagnosisICD-9-CM649.00Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicableDiagnosisICD-9-CM649.01Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum conditionDiagnosisICD-9-CM649.02Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complicationDiagnosisICD-9-CM649.03Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complicationDiagnosisICD-9-CM649.04Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complicationDiagnosisICD-9-CM989.84Toxic effect of tobaccoDiagnosisICD-9-CM  |          |  | =             |             |
| Z68.29Body mass index [BMI] 29.0-29.9, adultDiagnosisICD-10-CMZ68.53Body mass index [BMI] pediatric, 85th percentile to less than 95th percentile for ageDiagnosisICD-10-CMSmoking Diagnosis Codes305.1Nondependent tobacco use disorderDiagnosisICD-9-CM649.0Tobacco use disorder complicating pregnancy, childbirth, or the puerperiumDiagnosisICD-9-CM649.00Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicableDiagnosisICD-9-CM649.01Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum conditionDiagnosisICD-9-CM649.02Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complicationDiagnosisICD-9-CM649.03Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complicationDiagnosisICD-9-CM649.04Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complicationDiagnosisICD-9-CM989.84Toxic effect of tobaccoDiagnosisICD-9-CM  |          | •  | =             |             |
| Body mass index [BMI] pediatric, 85th percentile to less than 95th percentile for age    Smoking Diagnosis Codes   |          |  | =             |             |
| Smoking Diagnosis Codes  305.1 Nondependent tobacco use disorder Diagnosis ICD-9-CM 649.0 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium 649.00 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable 649.01 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition 649.02 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication 649.03 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication 649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication 649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication 649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication 649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication 649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication 649.05 Diagnosis ICD-9-CM  |          |  | =             |             |
| Smoking Diagnosis Codes  305.1 Nondependent tobacco use disorder  649.0 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium  649.00 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable  649.01 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition  649.02 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication  649.03 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication  649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication  649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  649.05 Diagnosis ICD-9-CM  |          |  | - 100         |             |
| 305.1 Nondependent tobacco use disorder  649.0 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium  649.00 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable  649.01 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition  649.02 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication  649.03 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication  649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication  649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  649.05 Diagnosis ICD-9-CM  705-9-CM   |          |  |               |             |
| For the puerperium of the puerperium, unspecified as to episode of care or not applicable of the puerperium, unspecified as to episode of care or not applicable of the puerperium, unspecified as to episode of care or not applicable of the puerperium, unspecified as to episode of care or not applicable of the puerperium, delivered, with or without mention of antepartum condition or the puerperium, delivered, with mention of postpartum complication or the puerperium, delivered, with mention of postpartum complication or the puerperium, antepartum condition or complication or complication or the puerperium, antepartum condition or complication or the puerperium, postpartum condition or complication or the puerperium condition or the puerperium conditi | 305.1    |  | Diagnosis     | ICD-9-CM    |
| puerperium  649.00 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable  649.01 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition  649.02 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication  649.03 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication  649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  649.05 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  649.06 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  649.07 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  649.08 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  649.09 Diagnosis ICD-9-CM   |          |  | =             |             |
| 649.00 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable 649.01 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition 649.02 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication 649.03 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication 649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication 649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication 649.04 Toxic effect of tobacco  Diagnosis ICD-9-CM  |          |  |               |             |
| puerperium, unspecified as to episode of care or not applicable  Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition  Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication  Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication  Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication  Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  Toxic effect of tobacco  Diagnosis ICD-9-CM   | 649.00   |  | Diagnosis     | ICD-9-CM    |
| Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition  Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication  Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication  Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication  Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  Toxic effect of tobacco  Toxic effect of tobacco  Diagnosis  ICD-9-CM  |          |  |               |             |
| puerperium, delivered, with or without mention of antepartum condition  649.02 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication  649.03 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication  649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  989.84 Toxic effect of tobacco Diagnosis ICD-9-CM   | 649.01   |  | Diagnosis     | ICD-9-CM    |
| condition  649.02 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication  649.03 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication  649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  989.84 Toxic effect of tobacco Diagnosis ICD-9-CM  | 0.13.01  |  | 2106110313    | 105 5 0.11  |
| Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication  Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication  Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication  Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  Toxic effect of tobacco  Toxic effect of tobacco  Tobacco use disorder complication  Diagnosis  ICD-9-CM  Diagnosis  ICD-9-CM  |          |  |               |             |
| puerperium, delivered, with mention of postpartum complication  Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication  Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  Toxic effect of tobacco  Diagnosis  ICD-9-CM   | 649 02   |  | Diagnosis     | ICD-9-CM    |
| Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication  Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  Toxic effect of tobacco  Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  Diagnosis ICD-9-CM  | 043.02   |  | Diagnosis     | ieb 5 civi  |
| puerperium, antepartum condition or complication  649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  989.84 Toxic effect of tobacco Diagnosis ICD-9-CM   | 649 03   |  | Diagnosis     | ICD-9-CM    |
| Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication  Toxic effect of tobacco  Toxic effect of tobacco  Diagnosis  ICD-9-CM  | U-13.03  |  | Diagnosis     | ICD J CIVI  |
| puerperium, postpartum condition or complication  989.84 Toxic effect of tobacco Diagnosis ICD-9-CM  | 649 04   |  | Diagnosis     | ICD-9-CM    |
| 989.84 Toxic effect of tobacco Diagnosis ICD-9-CM  | U-17.U-1 |  | Diagnosis     | ICD-J-CIVI  |
| <u> </u>   | 080 84   |  | Diagnosis     | ICD-9-CM    |
| r17 Micotine dependence Diagnosis ICD-10-CM  |          |  | =             |             |
|  | F1/      | Nicotine dependence  | DIARHOSIS     | ICD-TO-CIAI |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code               | Description   | Code Category          | Code Type              |
|--------------------|---|------------------------|------------------------|
| 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   | Diagnosis              | ICD-10-CM              |
|                    | disorders   |                        |                        |
| F17.209            | Nicotine dependence, unspecified, with unspecified nicotine-induced   | Diagnosis              | ICD-10-CM              |
|                    | disorders   |                        |                        |
| 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  | Diagnosis              | ICD-10-CM              |
|                    | disorders   |                        |                        |
| F17.219            | Nicotine dependence, cigarettes, with unspecified nicotine-induced  | Diagnosis              | ICD-10-CM              |
|                    | disorders   |                        |                        |
| 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   | Diagnosis              | ICD-10-CM              |
| F47 220            | disorders   | <b>5</b>               | 100 40 614             |
| F17.229            | Nicotine dependence, chewing tobacco, with unspecified nicotine-  | Diagnosis              | ICD-10-CM              |
| F17 20             | induced disorders   | Diagnosis              | ICD 10 CM              |
| F17.29<br>F17.290  | Nicotine dependence, other tobacco product  | Diagnosis              | ICD-10-CM<br>ICD-10-CM |
| F17.290<br>F17.291 | Nicotine dependence, other tobacco product, uncomplicated Nicotine dependence, other tobacco product, in remission            | Diagnosis<br>Diagnosis | ICD-10-CM              |
| F17.291<br>F17.293 | Nicotine dependence, other tobacco product, in remission  Nicotine dependence, other tobacco product, with withdrawal         | Diagnosis              | ICD-10-CM              |
| F17.298            | Nicotine dependence, other tobacco product, with withdrawar  Nicotine dependence, other tobacco product, with other nicotine- | Diagnosis              | ICD-10-CM              |
| F17.290            | induced disorders   | Diagnosis              | ICD-10-CIVI            |
| F17.299            | Nicotine dependence, other tobacco product, with unspecified  | Diagnosis              | ICD-10-CM              |
| 117.233            | nicotine-induced disorders  | Diagnosis              | ICD-10-CIVI            |
| O99.33             | Tobacco use disorder complicating pregnancy, childbirth, and the  | Diagnosis              | ICD-10-CM              |
| 033.33             | puerperium  | Diagnosis              | ICD 10 CIVI            |
| O99.330            | Smoking (tobacco) complicating pregnancy, unspecified trimester   | Diagnosis              | ICD-10-CM              |
| 099.331            | Smoking (tobacco) complicating pregnancy, first trimester   | Diagnosis              | ICD-10-CM              |
| 099.332            | Smoking (tobacco) complicating pregnancy, second trimester  | Diagnosis              | ICD-10-CM              |
| 099.333            | Smoking (tobacco) complicating pregnancy, third trimester   | Diagnosis              | ICD-10-CM              |
| 099.334            | Smoking (tobacco) complicating childbirth   | Diagnosis              | ICD-10-CM              |
| 099.335            | Smoking (tobacco) complicating the puerperium   | Diagnosis              | ICD-10-CM              |
| P04.2              | Newborn affected by maternal use of tobacco   | Diagnosis              | ICD-10-CM              |
| P96.81             | Exposure to (parental) (environmental) tobacco smoke in the perinatal   | •                      | ICD-10-CM              |
|                    | period  | -                      |                        |
| T65.2              | Toxic effect of tobacco and nicotine  | Diagnosis              | ICD-10-CM              |
|                    |   |                        |                        |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code     | Description   | Code Category | Code Type |
|----------|---|---------------|-----------|
| 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    | Diagnosis     | ICD-10-CM |
|          | encounter   |               |           |
| T65.211D | Toxic effect of chewing tobacco, accidental (unintentional),            | Diagnosis     | ICD-10-CM |
|          | subsequent encounter  |               |           |
| 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         | Diagnosis     | ICD-10-CM |
|          | encounter   |               |           |
| T65.212D | Toxic effect of chewing tobacco, intentional self-harm, subsequent      | Diagnosis     | ICD-10-CM |
|          | encounter   |               |           |
| 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 | Diagnosis     | ICD-10-CM |
|          | encounter   |               |           |
| T65.221D | Toxic effect of tobacco cigarettes, accidental (unintentional),         | Diagnosis     | ICD-10-CM |
|          | subsequent encounter  |               |           |
| 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      | Diagnosis     | ICD-10-CM |
|          | encounter   |               |           |
| T65.222D | Toxic effect of tobacco cigarettes, intentional self-harm, subsequent   | Diagnosis     | ICD-10-CM |
|          | encounter   |               |           |
| 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 |
|          |   | -             |           |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code                      | Description  | Code Category       | Code Type            |
|---------------------------|--|---------------------|----------------------|
| T65.291A                  | Toxic effect of other tobacco and nicotine, accidental (unintentional),                        | Diagnosis           | ICD-10-CM            |
|                           | initial encounter  |                     |                      |
| T65.291D                  | Toxic effect of other tobacco and nicotine, accidental (unintentional),                        | Diagnosis           | ICD-10-CM            |
|                           | subsequent encounter   |                     |                      |
| T65.291S                  | Toxic effect of other tobacco and nicotine, accidental (unintentional),                        | Diagnosis           | ICD-10-CM            |
|                           | sequela  |                     |                      |
| 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                     | Diagnosis           | ICD-10-CM            |
|                           | encounter  |                     |                      |
| T65.292D                  | Toxic effect of other tobacco and nicotine, intentional self-harm,                             | Diagnosis           | ICD-10-CM            |
|                           | subsequent encounter   |                     |                      |
| T65.292S                  | Toxic effect of other tobacco and nicotine, intentional self-harm,                             | Diagnosis           | ICD-10-CM            |
|                           | sequela  |                     |                      |
| 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                                | Diagnosis           | ICD-10-CM            |
|                           | encounter  |                     |                      |
| 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                           | Diagnosis           | ICD-10-CM            |
|                           | encounter  | 2148.16616          | .02 20 0             |
| T65.294S                  | Toxic effect of other tobacco and nicotine, undetermined, sequela                              | Diagnosis           | ICD-10-CM            |
| V15.82                    | Personal history of tobacco use, presenting hazards to health                                  | Diagnosis           | ICD-9-CM             |
| Z53.01                    | Procedure and treatment not carried out due to patient smoking                                 | Diagnosis           | ICD-10-CM            |
| Z57.31                    | Occupational exposure to environmental tobacco smoke   | Diagnosis           | ICD-10-CM            |
| Z71.6                     | Tobacco abuse counseling   | Diagnosis           | ICD-10-CM            |
| Z72.0                     | Tobacco use  | Diagnosis           | ICD-10-CM            |
| Z77.22                    | Contact with and (suspected) exposure to environmental tobacco                                 | Diagnosis           | ICD-10-CM            |
|                           | smoke (acute) (chronic)  |                     |                      |
| Z87.891                   | Personal history of nicotine dependence  | Diagnosis           | ICD-10-CM            |
|                           | Alcohol Abuse or Dependence Diagnosis Codes  |                     |                      |
| 291                       | Alcohol-induced mental disorders   | Diagnosis           | ICD-9-CM             |
| 291.0                     | Alcohol withdrawal delirium  | Diagnosis           | ICD-9-CM             |
| 291.1                     | Alcohol-induced persisting amnestic disorder   | Diagnosis           | ICD-9-CM             |
| 291.2                     | Alcohol-induced persisting dementia  | Diagnosis           | ICD-9-CM             |
| 291.3                     | Alcohol-induced psychotic disorder with hallucinations   | Diagnosis           | ICD-9-CM             |
| 291.4                     | Idiosyncratic alcohol intoxication   | Diagnosis           | ICD-9-CM             |
| 291.5                     | Alcohol-induced psychotic disorder with delusions  | Diagnosis           | ICD-9-CM             |
| 291.8                     | Other specified alcohol-induced mental disorders   | Diagnosis           | ICD-9-CM             |
| 291.81                    | Alcohol withdrawal   | Diagnosis           | ICD-9-CM             |
| 204 02                    | Alaskalisadusaad alasus diaasudass   | Diagnosis           | ICD-9-CM             |
| 291.82                    | Alcohol induced sleep disorders  |                     |                      |
| 291.82<br>291.89<br>291.9 | Other specified alcohol-induced mental disorders  Unspecified alcohol-induced mental disorders | Diagnosis Diagnosis | ICD-9-CM<br>ICD-9-CM |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code   | Description  | Code Category | Code Type |
|--------|--|---------------|-----------|
| 303    | Alcohol dependence syndrome  | Diagnosis     | ICD-9-CM  |
| 303.0  | Acute alcoholic intoxication   | Diagnosis     | ICD-9-CM  |
| 303.00 | Acute alcoholic intoxication, unspecified  | Diagnosis     | ICD-9-CM  |
| 303.01 | Acute alcoholic intoxication, continuous   | Diagnosis     | ICD-9-CM  |
| 303.02 | Acute alcoholic intoxication, episodic   | Diagnosis     | ICD-9-CM  |
| 303.03 | Acute alcoholic intoxication, in remission   | Diagnosis     | ICD-9-CM  |
| 303.9  | Other and unspecified alcohol dependence   | Diagnosis     | ICD-9-CM  |
| 303.90 | Other and unspecified alcohol dependence, unspecified                              | Diagnosis     | ICD-9-CM  |
| 303.91 | Other and unspecified alcohol dependence, continuous                               | Diagnosis     | ICD-9-CM  |
| 303.92 | Other and unspecified alcohol dependence, episodic                                 | Diagnosis     | ICD-9-CM  |
| 303.93 | Other and unspecified alcohol dependence, in remission                             | Diagnosis     | ICD-9-CM  |
| 305.0  | Nondependent alcohol abuse   | Diagnosis     | ICD-9-CM  |
| 305.00 | Nondependent alcohol abuse, unspecified  | Diagnosis     | ICD-9-CM  |
| 305.01 | Nondependent alcohol abuse, continuous   | Diagnosis     | ICD-9-CM  |
| 305.02 | Nondependent alcohol abuse, episodic   | Diagnosis     | ICD-9-CM  |
| 305.03 | Nondependent alcohol abuse, in remission   | Diagnosis     | ICD-9-CM  |
| 357.5  | Alcoholic polyneuropathy   | Diagnosis     | ICD-9-CM  |
| 425.5  | Alcoholic cardiomyopathy   | Diagnosis     | ICD-9-CM  |
| 535.3  | Alcoholic gastritis  | Diagnosis     | ICD-9-CM  |
| 535.30 | Alcoholic gastritis without mention of hemorrhage                                  | Diagnosis     | ICD-9-CM  |
| 535.31 | Alcoholic gastritis with hemorrhage  | Diagnosis     | ICD-9-CM  |
| 571.0  | Alcoholic fatty liver  | Diagnosis     | ICD-9-CM  |
| 571.1  | Acute alcoholic hepatitis  | Diagnosis     | ICD-9-CM  |
| 571.2  | Alcoholic cirrhosis of liver   | Diagnosis     | ICD-9-CM  |
| 571.3  | Unspecified alcoholic liver damage   | Diagnosis     | ICD-9-CM  |
| 760.71 | Noxious influences affecting fetus or newborn via placenta or breast milk, alcohol | Diagnosis     | ICD-9-CM  |
| 790.3  | Excessive blood level of alcohol   | Diagnosis     | ICD-9-CM  |
| 94.46  | Alcoholism counseling  | Procedure     | ICD-9-CM  |
| 94.53  | Referral for alcoholism rehabilitation   | Procedure     | ICD-9-CM  |
| 94.6   | Alcohol and drug rehabilitation and detoxification                                 | Procedure     | ICD-9-CM  |
| 94.61  | Alcohol rehabilitation   | Procedure     | ICD-9-CM  |
| 94.62  | Alcohol detoxification   | Procedure     | ICD-9-CM  |
| 94.63  | Alcohol rehabilitation and detoxification  | Procedure     | ICD-9-CM  |
| 94.67  | Combined alcohol and drug rehabilitation   | Procedure     | ICD-9-CM  |
| 94.68  | Combined alcohol and drug detoxification   | Procedure     | ICD-9-CM  |
| 94.69  | Combined alcohol and drug rehabilitation and detoxification                        | Procedure     | ICD-9-CM  |
| 977.3  | Poisoning by alcohol deterrents  | Diagnosis     | ICD-9-CM  |
| 980    | Toxic effect of alcohol  | Diagnosis     | ICD-9-CM  |
| 980.0  | Toxic effect of ethyl alcohol  | Diagnosis     | ICD-9-CM  |
| 980.1  | Toxic effect of methyl alcohol   | Diagnosis     | ICD-9-CM  |
| 980.2  | Toxic effect of isopropyl alcohol  | Diagnosis     | ICD-9-CM  |
| 980.8  | Toxic effect of other specified alcohols   | Diagnosis     | ICD-9-CM  |
| 980.9  | Toxic effect of unspecified alcohol  | Diagnosis     | ICD-9-CM  |
| E24.4  | Alcohol-induced pseudo-Cushing's syndrome  | Diagnosis     | ICD-10-CM |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| F10     | Alcohol related disorders  | Diagnosis     | ICD-10-CM |
| 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           | Diagnosis     | ICD-10-CM |
|         | hallucinations   |               |           |
| 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 |
| 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      | Diagnosis     | ICD-10-CM |
|         | delusions  |               |           |
| F10.251 | Alcohol dependence with alcohol-induced psychotic disorder with      | Diagnosis     | ICD-10-CM |
|         | hallucinations   |               |           |
|         |  |               |           |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code     | Description   | Code Category | Code Type   |
|----------|---|---------------|-------------|
| F10.259  | Alcohol dependence with alcohol-induced psychotic disorder,           | Diagnosis     | ICD-10-CM   |
|          | unspecified   | J             |             |
| 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 | Diagnosis     | ICD-10-CM   |
| . 10.330 | delusions   | 2106110313    | 102 10 0111 |
| F10.951  | Alcohol use, unspecified with alcohol-induced psychotic disorder with | Diagnosis     | ICD-10-CM   |
|          | hallucinations  | 2.0800.0      | .02 20 0    |
| F10.959  | Alcohol use, unspecified with alcohol-induced psychotic disorder,     | Diagnosis     | ICD-10-CM   |
| 0.000    | unspecified   | 2.0800.0      | .02 20 0    |
| F10.96   | Alcohol use, unspecified with alcohol-induced persisting amnestic     | Diagnosis     | ICD-10-CM   |
|          | disorder  | - 10011011    |             |
| 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   |
| G31.2    | Degeneration of nervous system due to alcohol                         | Diagnosis     | ICD-10-CM   |
| G62.1    | Alcoholic polyneuropathy  | Diagnosis     | ICD-10-CM   |
| G72.1    | Alcoholic myopathy  | Diagnosis     | ICD-10-CM   |
| HZ2ZZZZ  | Detoxification Services for Substance Abuse Treatment                 | Procedure     | ICD-10-PCS  |
| HZ30ZZZ  | Individual Counseling for Substance Abuse Treatment, Cognitive        | Procedure     | ICD-10-PCS  |
|          |   |               | .55 10 . 65 |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

|               |  | Code Category    | Code Type  |
|---------------|--|------------------|------------|
| HZ31ZZZ       | Individual Counseling for Substance Abuse Treatment, Behavioral                  | Procedure        | ICD-10-PCS |
| HZ32ZZZ       | Individual Counseling for Substance Abuse Treatment, Cognitive-                  | Procedure        | ICD-10-PCS |
|               | Behavioral   |                  |            |
| HZ33ZZZ       | Individual Counseling for Substance Abuse Treatment, 12-Step                     | Procedure        | ICD-10-PCS |
| HZ34ZZZ       | Individual Counseling for Substance Abuse Treatment, Interpersonal               | Procedure        | ICD-10-PCS |
| HZ35ZZZ       | Individual Counseling for Substance Abuse Treatment, Vocational                  | Procedure        | ICD-10-PCS |
| HZ36ZZZ       | Individual Counseling for Substance Abuse Treatment, Psychoeducation             | Procedure        | ICD-10-PCS |
| HZ37ZZZ       | Individual Counseling for Substance Abuse Treatment, Motivational<br>Enhancement | Procedure        | ICD-10-PCS |
| HZ38ZZZ       | Individual Counseling for Substance Abuse Treatment, Confrontational             | Procedure        | ICD-10-PCS |
| HZ39ZZZ       | Individual Counseling for Substance Abuse Treatment, Continuing Care             |                  | ICD-10-PCS |
| HZ3BZZZ       | Individual Counseling for Substance Abuse Treatment, Spiritual                   | Procedure        | ICD-10-PCS |
| HZ40ZZZ       | Group Counseling for Substance Abuse Treatment, Cognitive                        | Procedure        | ICD-10-PCS |
| HZ41ZZZ       | Group Counseling for Substance Abuse Treatment, Behavioral                       | Procedure        | ICD-10-PCS |
| HZ42ZZZ       | Group Counseling for Substance Abuse Treatment, Cognitive-<br>Behavioral         | Procedure        | ICD-10-PCS |
| HZ43ZZZ       | Group Counseling for Substance Abuse Treatment, 12-Step                          | Procedure        | ICD-10-PCS |
| HZ44ZZZ       | Group Counseling for Substance Abuse Treatment, Interpersonal                    | Procedure        | ICD-10-PCS |
| HZ45ZZZ       | Group Counseling for Substance Abuse Treatment, Vocational                       | Procedure        | ICD-10-PCS |
| HZ46ZZZ       | Group Counseling for Substance Abuse Treatment, Psychoeducation                  | Procedure        | ICD-10-PCS |
| HZ47ZZZ       | Group Counseling for Substance Abuse Treatment, Motivational<br>Enhancement      | Procedure        | ICD-10-PCS |
| HZ48ZZZ       | Group Counseling for Substance Abuse Treatment, Confrontational                  | Procedure        | ICD-10-PCS |
| HZ49ZZZ       | Group Counseling for Substance Abuse Treatment, Continuing Care                  | Procedure        | ICD-10-PCS |
| HZ4BZZZ       | Group Counseling for Substance Abuse Treatment, Spiritual                        | Procedure        | ICD-10-PCS |
| HZ50ZZZ       | Individual Psychotherapy for Substance Abuse Treatment, Cognitive                | Procedure        | ICD-10-PCS |
| HZ51ZZZ       | Individual Psychotherapy for Substance Abuse Treatment, Behavioral               | Procedure        | ICD-10-PCS |
| HZ52ZZZ       | Individual Psychotherapy for Substance Abuse Treatment, Cognitive-<br>Behavioral | Procedure        | ICD-10-PCS |
| HZ53ZZZ       | Individual Psychotherapy for Substance Abuse Treatment, 12-Step                  | Procedure        | ICD-10-PCS |
| HZ54ZZZ       | Individual Psychotherapy for Substance Abuse Treatment, Interpersonal            | Procedure        | ICD-10-PCS |
| HZ55ZZZ       | Individual Psychotherapy for Substance Abuse Treatment, Interactive              | Procedure        | ICD-10-PCS |
| HZ56ZZZ       | Individual Psychotherapy for Substance Abuse Treatment, Psychoeducation          | Procedure        | ICD-10-PCS |
| HZ57ZZZ       | Individual Psychotherapy for Substance Abuse Treatment, Motivational Enhancement | Procedure        | ICD-10-PCS |
| HZ58ZZZ       | Individual Psychotherapy for Substance Abuse Treatment, Confrontational          | Procedure        | ICD-10-PCS |
| HZ59ZZZ       | Individual Psychotherapy for Substance Abuse Treatment, Supportive               | Procedure        | ICD-10-PCS |
| HZ5BZZZ       | Individual Psychotherapy for Substance Abuse Treatment,                          | Procedure        | ICD-10-PCS |
| - <del></del> | Psychoanalysis   | ··· <del>-</del> |            |
| HZ5CZZZ       | Individual Psychotherapy for Substance Abuse Treatment, Psychodynamic            | Procedure        | ICD-10-PCS |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code     | Description   | Code Category | Code Type  |
|----------|---|---------------|------------|
| HZ5DZZZ  | Individual Psychotherapy for Substance Abuse Treatment,                                   | Procedure     | ICD-10-PCS |
|          | Psychophysiological   |               |            |
| HZ83ZZZ  | Medication Management for Substance Abuse Treatment, Antabuse                             | Procedure     | ICD-10-PCS |
| HZ86ZZZ  | Medication Management for Substance Abuse Treatment, Clonidine                            | Procedure     | ICD-10-PCS |
| HZ88ZZZ  | Medication Management for Substance Abuse Treatment, Psychiatric                          | Procedure     | ICD-10-PCS |
|          | Medication  |               |            |
| HZ89ZZZ  | Medication Management for Substance Abuse Treatment, Other                                | Procedure     | ICD-10-PCS |
|          | Replacement Medication  |               |            |
| HZ93ZZZ  | Pharmacotherapy for Substance Abuse Treatment, Antabuse                                   | Procedure     | ICD-10-PCS |
| HZ96ZZZ  | Pharmacotherapy for Substance Abuse Treatment, Clonidine                                  | Procedure     | ICD-10-PCS |
| HZ98ZZZ  | Pharmacotherapy for Substance Abuse Treatment, Psychiatric                                | Procedure     | ICD-10-PCS |
|          | Medication  |               |            |
| HZ99ZZZ  | Pharmacotherapy for Substance Abuse Treatment, Other Replacement                          | Procedure     | ICD-10-PCS |
|          | Medication  |               |            |
| 142.6    | Alcoholic cardiomyopathy  | 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  |
| K70      | Alcoholic liver disease   | 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  |
| K85.2    | Alcohol induced acute pancreatitis  | Diagnosis     | ICD-10-CM  |
| K85.20   | Alcohol induced acute pancreatitis without necrosis or infection                          | Diagnosis     | ICD-10-CM  |
| K85.21   | Alcohol induced acute pancreatitis with uninfected necrosis                               | Diagnosis     | ICD-10-CM  |
| K85.22   | Alcohol induced acute pancreatitis with infected necrosis                                 | Diagnosis     | ICD-10-CM  |
| K86.0    | Alcohol-induced chronic pancreatitis  | Diagnosis     | ICD-10-CM  |
| O35.4    | Maternal care for (suspected) damage to fetus from alcohol                                | Diagnosis     | ICD-10-CM  |
| O35.4XX0 | Maternal care for (suspected) damage to fetus from alcohol, not applicable or unspecified | Diagnosis     | ICD-10-CM  |
| O35.4XX1 | Maternal care for (suspected) damage to fetus from alcohol, fetus 1                       | Diagnosis     | ICD-10-CM  |
| O35.4XX2 | Maternal care for (suspected) damage to fetus from alcohol, fetus 2                       | Diagnosis     | ICD-10-CM  |
| O35.4XX3 | Maternal care for (suspected) damage to fetus from alcohol, fetus 3                       | Diagnosis     | ICD-10-CM  |
| O35.4XX4 | Maternal care for (suspected) damage to fetus from alcohol, fetus 4                       | Diagnosis     | ICD-10-CM  |
| O35.4XX5 | Maternal care for (suspected) damage to fetus from alcohol, fetus 5                       | Diagnosis     | ICD-10-CM  |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| O35.4XX9 | Maternal care for (suspected) damage to fetus from alcohol, other                | Diagnosis     | ICD-10-CM |
|          | fetus  | -             |           |
| 099.31   | Alcohol use complicating pregnancy, childbirth, and the puerperium               | Diagnosis     | ICD-10-CM |
| 099.310  | Alcohol use complicating pregnancy, unspecified trimester                        | Diagnosis     | ICD-10-CM |
| 099.311  | Alcohol use complicating pregnancy, first trimester                              | Diagnosis     | ICD-10-CM |
| 099.312  | Alcohol use complicating pregnancy, second trimester                             | Diagnosis     | ICD-10-CM |
| 099.313  | Alcohol use complicating pregnancy, third trimester                              | Diagnosis     | ICD-10-CM |
| 099.314  | Alcohol use complicating childbirth  | Diagnosis     | ICD-10-CM |
| 099.315  | Alcohol use complicating the puerperium  | Diagnosis     | ICD-10-CM |
| P04.3    | Newborn affected by maternal use of alcohol                                      | Diagnosis     | ICD-10-CM |
| Q86.0    | Fetal alcohol syndrome (dysmorphic)  | Diagnosis     | ICD-10-CM |
| R78.0    | Finding of alcohol in blood  | Diagnosis     | ICD-10-CM |
| T51      | Toxic effect of alcohol  | Diagnosis     | ICD-10-CM |
| T51.0X2A | Toxic effect of ethanol, intentional self-harm, initial encounter                | Diagnosis     | ICD-10-CM |
| T51.0X3A | Toxic effect of ethanol, assault, initial encounter                              | Diagnosis     | ICD-10-CM |
| T51.0X4A | Toxic effect of ethanol, undetermined, initial encounter                         | Diagnosis     | ICD-10-CM |
| T51.1X2A | Toxic effect of methanol, intentional self-harm, initial encounter               | Diagnosis     | ICD-10-CM |
| T51.1X3A | Toxic effect of methanol, assault, initial encounter                             | Diagnosis     | ICD-10-CM |
| T51.1X4A | Toxic effect of methanol, undetermined, initial encounter                        | Diagnosis     | ICD-10-CM |
| T51.2X2A | Toxic effect of 2-Propanol, intentional self-harm, initial encounter             | Diagnosis     | ICD-10-CM |
| T51.2X3A | Toxic effect of 2-Propanol, assault, initial encounter                           | Diagnosis     | ICD-10-CM |
| T51.2X4A | Toxic effect of 2-Propanol, undetermined, initial encounter                      | Diagnosis     | ICD-10-CM |
| T51.8    | Toxic effect of other alcohols   | Diagnosis     | ICD-10-CM |
| T51.8X   | Toxic effect of other alcohols   | Diagnosis     | ICD-10-CM |
| T51.8X2  | Toxic effect of other alcohols, intentional self-harm                            | Diagnosis     | ICD-10-CM |
| T51.8X2A | Toxic effect of other alcohols, intentional self-harm, initial encounter         | Diagnosis     | ICD-10-CM |
| T51.8X2D | Toxic effect of other alcohols, intentional self-harm, subsequent                | Diagnosis     | ICD-10-CM |
|          | encounter  |               |           |
| T51.8X2S | Toxic effect of other alcohols, intentional self-harm, sequela                   | Diagnosis     | ICD-10-CM |
| T51.8X3  | Toxic effect of other alcohols, assault  | Diagnosis     | ICD-10-CM |
| T51.8X3A | Toxic effect of other alcohols, assault, initial encounter                       | Diagnosis     | ICD-10-CM |
| T51.8X3D | Toxic effect of other alcohols, assault, subsequent encounter                    | Diagnosis     | ICD-10-CM |
| T51.8X3S | Toxic effect of other alcohols, assault, sequela                                 | Diagnosis     | ICD-10-CM |
| T51.8X4  | Toxic effect of other alcohols, undetermined                                     | Diagnosis     | ICD-10-CM |
| T51.8X4A | Toxic effect of other alcohols, undetermined, initial encounter                  | Diagnosis     | ICD-10-CM |
| T51.8X4D | Toxic effect of other alcohols, undetermined, subsequent encounter               | Diagnosis     | ICD-10-CM |
| T51.8X4S | Toxic effect of other alcohols, undetermined, sequela                            | Diagnosis     | ICD-10-CM |
| T51.9    | Toxic effect of unspecified alcohol  | Diagnosis     | ICD-10-CM |
| T51.92   | Toxic effect of unspecified alcohol, intentional self-harm                       | Diagnosis     | ICD-10-CM |
| T51.92XA | Toxic effect of unspecified alcohol, intentional self-harm, initial encounter    | Diagnosis     | ICD-10-CM |
| T51.92XD | Toxic effect of unspecified alcohol, intentional self-harm, subsequent encounter | Diagnosis     | ICD-10-CM |
| T51.92XS | Toxic effect of unspecified alcohol, intentional self-harm, sequela              | Diagnosis     | ICD-10-CM |
| T51.93   | Toxic effect of unspecified alcohol, assault                                     | Diagnosis     | ICD-10-CM |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code     | Description  | Code Category | Code Type |
|----------|--|---------------|-----------|
| T51.93XA | Toxic effect of unspecified alcohol, assault, initial encounter      | Diagnosis     | ICD-10-CM |
| T51.93XD | Toxic effect of unspecified alcohol, assault, subsequent encounter   | Diagnosis     | ICD-10-CM |
| T51.93XS | Toxic effect of unspecified alcohol, assault, sequela                | Diagnosis     | ICD-10-CM |
| T51.94   | Toxic effect of unspecified alcohol, undetermined                    | Diagnosis     | ICD-10-CM |
| T51.94XA | Toxic effect of unspecified alcohol, undetermined, initial encounter | Diagnosis     | ICD-10-CM |
| T51.94XD | Toxic effect of unspecified alcohol, undetermined, subsequent        | Diagnosis     | ICD-10-CM |
|          | encounter  |               |           |
| T51.94XS | Toxic effect of unspecified alcohol, undetermined, sequela           | Diagnosis     | ICD-10-CM |
| V11.3    | Personal history of alcoholism                                       | Diagnosis     | ICD-9-CM  |
| Y90      | Evidence of alcohol involvement determined by blood alcohol level    | Diagnosis     | ICD-10-CM |
| Y90.0    | Blood alcohol level of less than 20 mg/100 ml                        | Diagnosis     | ICD-10-CM |
| Y90.1    | Blood alcohol level of 20-39 mg/100 ml                               | Diagnosis     | ICD-10-CM |
| Y90.2    | Blood alcohol level of 40-59 mg/100 ml                               | Diagnosis     | ICD-10-CM |
| Y90.3    | Blood alcohol level of 60-79 mg/100 ml                               | Diagnosis     | ICD-10-CM |
| Y90.4    | Blood alcohol level of 80-99 mg/100 ml                               | Diagnosis     | ICD-10-CM |
| Y90.5    | Blood alcohol level of 100-119 mg/100 ml                             | Diagnosis     | ICD-10-CM |
| Y90.6    | Blood alcohol level of 120-199 mg/100 ml                             | Diagnosis     | ICD-10-CM |
| Y90.7    | Blood alcohol level of 200-239 mg/100 ml                             | Diagnosis     | ICD-10-CM |
| Y90.8    | Blood alcohol level of 240 mg/100 ml or more                         | Diagnosis     | ICD-10-CM |
| Y90.9    | Presence of alcohol in blood, level not specified                    | Diagnosis     | ICD-10-CM |
| Z02.83   | Encounter for blood-alcohol and blood-drug test                      | Diagnosis     | ICD-10-CM |
| Z71.4    | Alcohol abuse counseling and surveillance                            | Diagnosis     | ICD-10-CM |
| Z71.41   | Alcohol abuse counseling and surveillance of alcoholic               | Diagnosis     | ICD-10-CM |
|          | Drug Abuse or Dependence Diagnosis Codes                             |               |           |
| 292      | Drug-induced mental disorders  | Diagnosis     | ICD-9-CM  |
| 292.0    | Drug withdrawal  | Diagnosis     | ICD-9-CM  |
| 292.1    | Drug-induced psychotic disorder                                      | Diagnosis     | ICD-9-CM  |
| 292.11   | Drug-induced psychotic disorder with delusions                       | Diagnosis     | ICD-9-CM  |
| 292.12   | Drug-induced psychotic disorder with hallucinations                  | Diagnosis     | ICD-9-CM  |
| 292.2    | Pathological drug intoxication                                       | Diagnosis     | ICD-9-CM  |
| 292.8    | Other specified drug-induced mental disorders                        | Diagnosis     | ICD-9-CM  |
| 292.81   | Drug-induced delirium  | Diagnosis     | ICD-9-CM  |
| 292.82   | Drug-induced persisting dementia                                     | Diagnosis     | ICD-9-CM  |
| 292.83   | Drug-induced persisting amnestic disorder                            | Diagnosis     | ICD-9-CM  |
| 292.84   | Drug-induced mood disorder   | Diagnosis     | ICD-9-CM  |
| 292.85   | Drug induced sleep disorders   | Diagnosis     | ICD-9-CM  |
| 292.89   | Other specified drug-induced mental disorder                         | Diagnosis     | ICD-9-CM  |
| 292.9    | Unspecified drug-induced mental disorder                             | Diagnosis     | ICD-9-CM  |
| 304      | Drug dependence  | Diagnosis     | ICD-9-CM  |
| 304.6    | Other specified drug dependence                                      | Diagnosis     | ICD-9-CM  |
| 304.60   | Other specified drug dependence, unspecified                         | Diagnosis     | ICD-9-CM  |
| 304.61   | Other specified drug dependence, continuous                          | Diagnosis     | ICD-9-CM  |
| 304.62   | Other specified drug dependence, episodic                            | Diagnosis     | ICD-9-CM  |
| 304.63   | Other specified drug dependence, in remission                        | Diagnosis     | ICD-9-CM  |
| 304.7    | Combinations of opioid type drug with any other drug dependence      | Diagnosis     | ICD-9-CM  |
|          |  |               |           |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code   | Description   | Code Category | Code Type |
|--------|---|---------------|-----------|
| 304.70 | Combinations of opioid type drug with any other drug dependence,    | Diagnosis     | ICD-9-CM  |
|        | unspecified   |               |           |
| 304.71 | Combinations of opioid type drug with any other drug dependence,    | Diagnosis     | ICD-9-CM  |
|        | continuous  |               |           |
| 304.72 | Combinations of opioid type drug with any other drug dependence,    | Diagnosis     | ICD-9-CM  |
|        | episodic  |               |           |
| 304.73 | Combinations of opioid type drug with any other drug dependence, in | Diagnosis     | ICD-9-CM  |
|        | remission   |               |           |
| 304.8  | Combinations of drug dependence excluding opioid type drug          | Diagnosis     | ICD-9-CM  |
| 304.80 | Combinations of drug dependence excluding opioid type drug,         | Diagnosis     | ICD-9-CM  |
|        | unspecified   |               |           |
| 304.81 | Combinations of drug dependence excluding opioid type drug,         | Diagnosis     | ICD-9-CM  |
|        | continuous  |               |           |
| 304.82 | Combinations of drug dependence excluding opioid type drug,         | Diagnosis     | ICD-9-CM  |
|        | episodic  |               |           |
| 304.83 | Combinations of drug dependence excluding opioid type drug, in      | Diagnosis     | ICD-9-CM  |
|        | remission   |               |           |
| 304.9  | Unspecified drug dependence   | Diagnosis     | ICD-9-CM  |
| 304.90 | Unspecified drug dependence, unspecified                            | Diagnosis     | ICD-9-CM  |
| 304.91 | Unspecified drug dependence, continuous                             | Diagnosis     | ICD-9-CM  |
| 304.92 | Unspecified drug dependence, episodic                               | Diagnosis     | ICD-9-CM  |
| 304.93 | Unspecified drug dependence, in remission                           | Diagnosis     | ICD-9-CM  |
| 305    | Nondependent abuse of drugs   | Diagnosis     | ICD-9-CM  |
| 305.2  | Nondependent cannabis abuse   | Diagnosis     | ICD-9-CM  |
| 305.20 | Nondependent cannabis abuse, unspecified                            | Diagnosis     | ICD-9-CM  |
| 305.21 | Nondependent cannabis abuse, continuous                             | Diagnosis     | ICD-9-CM  |
| 305.22 | Nondependent cannabis abuse, episodic                               | Diagnosis     | ICD-9-CM  |
| 305.23 | Nondependent cannabis abuse, in remission                           | Diagnosis     | ICD-9-CM  |
| 305.3  | Nondependent hallucinogen abuse                                     | Diagnosis     | ICD-9-CM  |
| 305.30 | Nondependent hallucinogen abuse, unspecified                        | Diagnosis     | ICD-9-CM  |
| 305.31 | Nondependent hallucinogen abuse, continuous                         | Diagnosis     | ICD-9-CM  |
| 305.32 | Nondependent hallucinogen abuse, episodic                           | Diagnosis     | ICD-9-CM  |
| 305.33 | Nondependent hallucinogen abuse, in remission                       | Diagnosis     | ICD-9-CM  |
| 305.4  | Nondependent sedative, hypnotic or anxiolytic abuse                 | Diagnosis     | ICD-9-CM  |
| 305.40 | Nondependent sedative, hypnotic or anxiolytic abuse, unspecified    | Diagnosis     | ICD-9-CM  |
| 305.41 | Nondependent sedative hypnotic or anxiolytic abuse, continuous      | Diagnosis     | ICD-9-CM  |
| 305.42 | Nondependent sedative, hypnotic or anxiolytic abuse, episodic       | Diagnosis     | ICD-9-CM  |
| 305.43 | Nondependent sedative, hypnotic or anxiolytic abuse, in remission   | Diagnosis     | ICD-9-CM  |
| 305.5  | Nondependent opioid abuse   | Diagnosis     | ICD-9-CM  |
| 305.50 | Nondependent opioid abuse, unspecified                              | Diagnosis     | ICD-9-CM  |
| 305.51 | Nondependent opioid abuse, continuous                               | Diagnosis     | ICD-9-CM  |
| 305.52 | Nondependent opioid abuse, episodic                                 | Diagnosis     | ICD-9-CM  |
| 305.53 | Nondependent opioid abuse, in remission                             | Diagnosis     | ICD-9-CM  |
| 305.6  | Nondependent cocaine abuse  | Diagnosis     | ICD-9-CM  |
| 305.60 | Nondependent cocaine abuse, unspecified                             | Diagnosis     | ICD-9-CM  |
|        |   |               |           |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| 305.61  | Nondependent cocaine abuse, continuous                              | Diagnosis     | ICD-9-CM  |
| 305.62  | Nondependent cocaine abuse, episodic                                | Diagnosis     | ICD-9-CM  |
| 305.63  | Nondependent cocaine abuse, in remission                            | Diagnosis     | ICD-9-CM  |
| 305.7   | Nondependent amphetamine or related acting sympathomimetic          | Diagnosis     | ICD-9-CM  |
|         | abuse, unspecified  |               |           |
| 305.70  | Nondependent amphetamine or related acting sympathomimetic          | Diagnosis     | ICD-9-CM  |
|         | abuse, unspecified  |               |           |
| 305.71  | Nondependent amphetamine or related acting sympathomimetic          | Diagnosis     | ICD-9-CM  |
|         | abuse, continuous   |               |           |
| 305.72  | Nondependent amphetamine or related acting sympathomimetic          | Diagnosis     | ICD-9-CM  |
|         | abuse, episodic   |               |           |
| 305.73  | Nondependent amphetamine or related acting sympathomimetic          | Diagnosis     | ICD-9-CM  |
|         | abuse, in remission   |               |           |
| 305.8   | Nondependent antidepressant type abuse                              | Diagnosis     | ICD-9-CM  |
| 305.80  | Nondependent antidepressant type abuse, unspecified                 | Diagnosis     | ICD-9-CM  |
| 305.81  | Nondependent antidepressant type abuse, continuous                  | Diagnosis     | ICD-9-CM  |
| 305.82  | Nondependent antidepressant type abuse, episodic                    | Diagnosis     | ICD-9-CM  |
| 305.83  | Nondependent antidepressant type abuse, in remission                | Diagnosis     | ICD-9-CM  |
| 305.9   | Other, mixed, or unspecified nondependent drug abuse                | Diagnosis     | ICD-9-CM  |
| 305.90  | Other, mixed, or unspecified nondependent drug abuse, unspecified   | Diagnosis     | ICD-9-CM  |
| 305.91  | Other, mixed, or unspecified nondependent drug abuse, continuous    | Diagnosis     | ICD-9-CM  |
| 305.92  | Other, mixed, or unspecified nondependent drug abuse, episodic      | Diagnosis     | ICD-9-CM  |
| 305.93  | Other, mixed, or unspecified nondependent drug abuse, in remission  | Diagnosis     | ICD-9-CM  |
| 648.3   | Maternal drug dependence complicating pregnancy, childbirth, or the | Diagnosis     | ICD-9-CM  |
|         | puerperium  | J             |           |
| 648.30  | Maternal drug dependence complicating pregnancy, childbirth, or the | Diagnosis     | ICD-9-CM  |
|         | puerperium, unspecified as to episode of care                       | _             |           |
| 648.31  | Maternal drug dependence, with delivery                             | Diagnosis     | ICD-9-CM  |
| 648.32  | Maternal drug dependence, with delivery, with current postpartum    | Diagnosis     | ICD-9-CM  |
|         | complication  |               |           |
| 648.33  | Maternal drug dependence, antepartum                                | Diagnosis     | ICD-9-CM  |
| 648.34  | Maternal drug dependence complicating pregnancy, childbirth, or the | Diagnosis     | ICD-9-CM  |
|         | puerperium, postpartum condition or complication                    | •             |           |
| 779.5   | Drug withdrawal syndrome in newborn                                 | Diagnosis     | ICD-9-CM  |
| F11.10  | Opioid abuse, uncomplicated   | Diagnosis     | ICD-10-CM |
| F11.11  | Opioid abuse, in remission  | 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 |
| F11.14  | Opioid abuse with opioid-induced mood 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            | Diagnosis     | ICD-10-CM |
|         | hallucinations  | -             |           |
| F11.159 | Opioid abuse with opioid-induced psychotic disorder, unspecified    | Diagnosis     | ICD-10-CM |
|         | •                             | =             |           |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| 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 |
| F11.220 | 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 |
| F11.250 | 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 |
| 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 |
| F11.90  | Opioid use, unspecified, uncomplicated   | 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 |
| F11.950 | 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 |
| F11.981 | 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 |
| F12.10  | Cannabis abuse, uncomplicated  | Diagnosis     | ICD-10-CM |
| F12.11  | Cannabis abuse, in remission   | 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 |
| F12.150 | Cannabis abuse with psychotic disorder with delusions                              | Diagnosis     | ICD-10-CM |
| F12.151 | Cannabis abuse with psychotic disorder with hallucinations                         | Diagnosis     | ICD-10-CM |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| F12.180 Car | Description  nnabis abuse with psychotic disorder, unspecified  nnabis abuse with cannabis-induced anxiety disorder     | Code Category Diagnosis | ICD-10-CM   |
|-------------|---|-------------------------|-------------|
| F12.180 Car |   |                         | ICD TO CIVI |
|             | •   | Diagnosis               | ICD-10-CM   |
|             | nnabis abuse with other cannabis-induced disorder   | Diagnosis               | ICD-10-CM   |
| F12.19 Car  | nnabis abuse with unspecified cannabis-induced disorder   | Diagnosis               | ICD-10-CM   |
| F12.220 Car | nnabis dependence with intoxication, uncomplicated  | Diagnosis               | ICD-10-CM   |
| F12.221 Car | nnabis dependence with intoxication delirium  | Diagnosis               | ICD-10-CM   |
| F12.222 Car | nnabis dependence with intoxication with perceptual disturbance   | Diagnosis               | ICD-10-CM   |
| F12.229 Car | nnabis dependence with intoxication, unspecified  | Diagnosis               | ICD-10-CM   |
| F12.250 Car | nnabis dependence with psychotic disorder with delusions  | Diagnosis               | ICD-10-CM   |
| F12.251 Car | nnabis dependence with psychotic disorder with hallucinations   | Diagnosis               | ICD-10-CM   |
| F12.259 Car | nnabis dependence with psychotic disorder, unspecified  | Diagnosis               | ICD-10-CM   |
| F12.280 Car | nnabis dependence with cannabis-induced anxiety disorder  | Diagnosis               | ICD-10-CM   |
| F12.288 Car | nnabis dependence with other cannabis-induced disorder  | Diagnosis               | ICD-10-CM   |
| F12.29 Car  | nnabis dependence with unspecified cannabis-induced disorder  | Diagnosis               | ICD-10-CM   |
| F12.90 Car  | nnabis use, unspecified, uncomplicated  | Diagnosis               | ICD-10-CM   |
| F12.920 Car | nnabis use, unspecified with intoxication, uncomplicated  | Diagnosis               | ICD-10-CM   |
| F12.921 Car | nnabis use, unspecified with intoxication delirium  | Diagnosis               | ICD-10-CM   |
| F12.922 Car | nnabis use, unspecified with intoxication with perceptual   | Diagnosis               | ICD-10-CM   |
| dis         | turbance  |                         |             |
| F12.929 Car | nnabis use, unspecified with intoxication, unspecified  | Diagnosis               | ICD-10-CM   |
| F12.950 Car | nnabis use, unspecified with psychotic disorder with delusions  | Diagnosis               | ICD-10-CM   |
| F12.951 Car | nnabis use, unspecified with psychotic disorder with hallucinations   | Diagnosis               | ICD-10-CM   |
| F12.959 Car | nnabis use, unspecified with psychotic disorder, unspecified  | Diagnosis               | ICD-10-CM   |
|             | nnabis use, unspecified with anxiety disorder   | Diagnosis               | ICD-10-CM   |
|             | nnabis use, unspecified with other cannabis-induced disorder  | Diagnosis               | ICD-10-CM   |
|             | nnabis use, unspecified with unspecified cannabis-induced disorder  | Diagnosis               | ICD-10-CM   |
| 112.33      | mass ase, anspeamed with anspeamed carmass madeed asside.   | Diagnosis               | 100 10 0    |
| F13.10 Sec  | dative, hypnotic or anxiolytic abuse, uncomplicated   | Diagnosis               | ICD-10-CM   |
| F13.11 Sec  | dative, hypnotic or anxiolytic abuse, in remission  | Diagnosis               | ICD-10-CM   |
|             | dative, hypnotic or anxiolytic abuse with intoxication, complicated   | Diagnosis               | ICD-10-CM   |
|             | dative, hypnotic or anxiolytic abuse with intoxication delirium   | Diagnosis               | ICD-10-CM   |
| F13.129 Sec | dative, hypnotic or anxiolytic abuse with intoxication, unspecified   | Diagnosis               | ICD-10-CM   |
|             | dative, hypnotic or anxiolytic abuse with sedative, hypnotic or xiolytic-induced mood disorder                          | Diagnosis               | ICD-10-CM   |
| F13.150 Sec | dative, hypnotic or anxiolytic abuse with sedative, hypnotic or xiolytic-induced psychotic disorder with delusions      | Diagnosis               | ICD-10-CM   |
| F13.151 Sec | dative, hypnotic or anxiolytic abuse with sedative, hypnotic or xiolytic-induced psychotic disorder with hallucinations | Diagnosis               | ICD-10-CM   |
| F13.159 Sec | dative, hypnotic or anxiolytic abuse with sedative, hypnotic or xiolytic-induced psychotic disorder, unspecified        | Diagnosis               | ICD-10-CM   |
| F13.180 Sec | dative, hypnotic or anxiolytic abuse with sedative, hypnotic or xiolytic-induced anxiety disorder                       | Diagnosis               | ICD-10-CM   |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code    | Description  | Code Category | Code Type   |
|---------|--|---------------|-------------|
| F13.181 | Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or  | Diagnosis     | ICD-10-CM   |
|         | anxiolytic-induced sexual dysfunction  |               |             |
| F13.182 | Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or  | Diagnosis     | ICD-10-CM   |
|         | anxiolytic-induced sleep disorder  |               |             |
| F13.188 | Sedative, hypnotic or anxiolytic abuse with other sedative, hypnotic or  | Diagnosis     | ICD-10-CM   |
|         | anxiolytic-induced disorder  |               |             |
| F13.19  | Sedative, hypnotic or anxiolytic abuse with unspecified sedative,  | Diagnosis     | ICD-10-CM   |
|         | hypnotic or anxiolytic-induced disorder  |               |             |
| F13.220 | Sedative, hypnotic or anxiolytic dependence with intoxication,   | Diagnosis     | ICD-10-CM   |
|         | uncomplicated  |               |             |
| F13.221 | Sedative, hypnotic or anxiolytic dependence with intoxication delirium   | Diagnosis     | ICD-10-CM   |
|         |  |               |             |
| F13.229 | Sedative, hypnotic or anxiolytic dependence with intoxication,   | Diagnosis     | ICD-10-CM   |
|         | unspecified  |               |             |
| F13.230 | Sedative, hypnotic or anxiolytic dependence with withdrawal,   | Diagnosis     | ICD-10-CM   |
|         | uncomplicated  |               |             |
| F13.231 | Sedative, hypnotic or anxiolytic dependence with withdrawal delirium   | Diagnosis     | ICD-10-CM   |
| F13.232 | Sedative, hypnotic or anxiolytic dependence with withdrawal with   | Diagnosis     | ICD-10-CM   |
|         | perceptual disturbance   |               |             |
| F13.239 | Sedative, hypnotic or anxiolytic dependence with withdrawal,   | Diagnosis     | ICD-10-CM   |
|         | unspecified  |               |             |
| F13.24  | Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or   | Diagnosis     | ICD-10-CM   |
| 540.050 | anxiolytic-induced mood disorder   | <b>5</b>      | 100 40 014  |
| F13.250 | Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or   | Diagnosis     | ICD-10-CM   |
| F12 2F1 | anxiolytic-induced psychotic disorder with delusions   | Diamenia      | 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   | Diagnosis     | ICD-10-CM   |
| F13.239 | anxiolytic-induced psychotic disorder, unspecified   | Diagnosis     | ICD-10-CIVI |
| F13.26  | Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or   | Diagnosis     | ICD-10-CM   |
| 113.20  | anxiolytic-induced persisting amnestic disorder  | Diagnosis     | ICD-10-CIVI |
| F13.27  | Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or   | Diagnosis     | ICD-10-CM   |
| 113.27  | anxiolytic-induced persisting dementia   | Diagnosis     | 100 10 0101 |
| F13.280 | Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or   | Diagnosis     | ICD-10-CM   |
|         | anxiolytic-induced anxiety disorder  |               |             |
| F13.281 | Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or   | Diagnosis     | ICD-10-CM   |
|         | anxiolytic-induced sexual dysfunction  | J             |             |
| F13.282 | Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or   | Diagnosis     | ICD-10-CM   |
|         | anxiolytic-induced sleep disorder  | J             |             |
| F13.288 | Sedative, hypnotic or anxiolytic dependence with other sedative,   | Diagnosis     | ICD-10-CM   |
|         | hypnotic or anxiolytic-induced disorder  | -             |             |
| F13.29  | Sedative, hypnotic or anxiolytic dependence with unspecified sedative,   | Diagnosis     | ICD-10-CM   |
|         | hypnotic or anxiolytic-induced disorder  |               |             |
| F13.90  | Sedative, hypnotic, or anxiolytic use, unspecified, uncomplicated  | Diagnosis     | ICD-10-CM   |
|         |  |               |             |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code     | Description  | Code Category | Code Type   |
|----------|--|---------------|-------------|
| F13.920  | Sedative, hypnotic or anxiolytic use, unspecified with intoxication,   | Diagnosis     | ICD-10-CM   |
|          | uncomplicated  |               |             |
| F13.921  | Sedative, hypnotic or anxiolytic use, unspecified with intoxication  | Diagnosis     | ICD-10-CM   |
|          | delirium   |               |             |
| F13.929  | Sedative, hypnotic or anxiolytic use, unspecified with intoxication,   | Diagnosis     | ICD-10-CM   |
|          | unspecified  |               |             |
| 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,   | Diagnosis     | ICD-10-CM   |
|          | hypnotic or anxiolytic-induced mood disorder   |               |             |
| F13.950  | Sedative, hypnotic or anxiolytic use, unspecified with sedative,   | Diagnosis     | ICD-10-CM   |
|          | hypnotic or anxiolytic-induced psychotic disorder with delusions   |               |             |
| F13.951  | Sedative, hypnotic or anxiolytic use, unspecified with sedative,   | Diagnosis     | ICD-10-CM   |
|          | hypnotic or anxiolytic-induced psychotic disorder with hallucinations  |               |             |
| F13.959  | Sedative, hypnotic or anxiolytic use, unspecified with sedative,   | Diagnosis     | ICD-10-CM   |
| F12.0C   | hypnotic or anxiolytic-induced psychotic disorder, unspecified   | Diamenia      | ICD 10 CM   |
| F13.96   | Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced persisting amnestic disorder | Diagnosis     | ICD-10-CM   |
| F13.97   | Sedative, hypnotic or anxiolytic use, unspecified with sedative,   | Diagnosis     | ICD-10-CM   |
| 113.57   | hypnotic or anxiolytic-induced persisting dementia   | Diagnosis     | ICD 10 CIVI |
| F13.980  | Sedative, hypnotic or anxiolytic use, unspecified with sedative,   | Diagnosis     | ICD-10-CM   |
| . 20.000 | hypnotic or anxiolytic-induced anxiety disorder  | 2.0000.0      | .02 20 0    |
| F13.981  | Sedative, hypnotic or anxiolytic use, unspecified with sedative,   | Diagnosis     | ICD-10-CM   |
|          | hypnotic or anxiolytic-induced sexual dysfunction  | J             |             |
| F13.982  | Sedative, hypnotic or anxiolytic use, unspecified with sedative,   | Diagnosis     | ICD-10-CM   |
|          | hypnotic or anxiolytic-induced sleep disorder  |               |             |
| F13.988  | Sedative, hypnotic or anxiolytic use, unspecified with other sedative,   | Diagnosis     | ICD-10-CM   |
|          | hypnotic or anxiolytic-induced disorder  |               |             |
| F13.99   | Sedative, hypnotic or anxiolytic use, unspecified with unspecified   | Diagnosis     | ICD-10-CM   |
|          | sedative, hypnotic or anxiolytic-induced disorder  |               |             |
| F14.10   | Cocaine abuse, uncomplicated   | Diagnosis     | ICD-10-CM   |
| F14.11   | Cocaine abuse, in remission  | 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   |
| F14.14   | Cocaine abuse with cocaine-induced mood disorder   | Diagnosis     | ICD-10-CM   |
| F14.150  | Cocaine abuse with cocaine-induced psychotic disorder with delusions   | Diagnosis     | ICD-10-CM   |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| F14.151 | Cocaine abuse with cocaine-induced psychotic disorder with                           | Diagnosis     | ICD-10-CM |
|         | hallucinations   | -             |           |
| F14.159 | Cocaine abuse with cocaine-induced psychotic disorder, unspecified                   | 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 |
| F14.220 | 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 |
| F14.250 | 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 |
| F14.280 | 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 |
| F14.90  | Cocaine use, unspecified, uncomplicated  | 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 |
| F14.94  | Cocaine use, unspecified with cocaine-induced mood 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 |
| F14.980 | 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 |
| F15.10  | Other stimulant abuse, uncomplicated   | Diagnosis     | ICD-10-CM |
| F15.11  | Other stimulant abuse, in remission  | Diagnosis     | ICD-10-CM |
|         |  |               |           |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| 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 |
| F15.14  | Other stimulant abuse with stimulant-induced mood 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 |
| F15.180 | 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 |
| F15.220 | 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 |
| F15.250 | 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 |
| F15.280 | 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 |
| F15.90  | Other stimulant use, unspecified, uncomplicated  | 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 |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code    | Description   | Code Category | Code Type   |
|---------|---|---------------|-------------|
| F15.950 | Other stimulant use, unspecified with stimulant-induced psychotic                   | Diagnosis     | ICD-10-CM   |
|         | disorder with delusions   | J             |             |
| F15.951 | Other stimulant use, unspecified with stimulant-induced psychotic                   | Diagnosis     | ICD-10-CM   |
|         | disorder with hallucinations  | J             |             |
| F15.959 | Other stimulant use, unspecified with stimulant-induced psychotic                   | Diagnosis     | ICD-10-CM   |
|         | disorder, unspecified   | _             |             |
| F15.980 | Other stimulant use, unspecified with stimulant-induced anxiety                     | Diagnosis     | ICD-10-CM   |
|         | disorder  |               |             |
| F15.981 | Other stimulant use, unspecified with stimulant-induced sexual                      | Diagnosis     | ICD-10-CM   |
|         | dysfunction   |               |             |
| 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                       | Diagnosis     | ICD-10-CM   |
| 123.300 | disorder  | Biagnosis     | 102 10 0111 |
| F15.99  | Other stimulant use, unspecified with unspecified stimulant-induced                 | Diagnosis     | ICD-10-CM   |
|         | disorder  |               |             |
| F16.10  | Hallucinogen abuse, uncomplicated   | Diagnosis     | ICD-10-CM   |
| F16.11  | Hallucinogen abuse, in remission  | 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   |
| F16.150 | Hallucinogen abuse with hallucinogen-induced psychotic disorder with                | Diagnosis     | ICD-10-CM   |
|         | delusions   |               |             |
| F16.151 | Hallucinogen abuse with hallucinogen-induced psychotic disorder with                | Diagnosis     | ICD-10-CM   |
|         | hallucinations  |               |             |
| F16.159 | Hallucinogen abuse with hallucinogen-induced psychotic disorder,                    | Diagnosis     | ICD-10-CM   |
|         | unspecified   |               |             |
| F16.180 | Hallucinogen abuse with hallucinogen-induced anxiety disorder                       | Diagnosis     | ICD-10-CM   |
| F16.183 | Hallucinogen abuse with hallucinogen persisting perception disorder                 | Diagnosis     | ICD-10-CM   |
|         | (flashbacks)  |               |             |
| 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   |
| F16.220 | 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   |
| F16.250 | Hallucinogen dependence with hallucinogen-induced psychotic disorder with delusions | Diagnosis     | ICD-10-CM   |
| F16.251 | Hallucinogen dependence with hallucinogen-induced psychotic                         | Diagnosis     | ICD-10-CM   |
| 110.231 | disorder with hallucinations  | Diagnosis     | ICD-10-CIVI |
| F16.259 | Hallucinogen dependence with hallucinogen-induced psychotic                         | Diagnosis     | ICD-10-CM   |
|         | disorder, unspecified   |               |             |
| F16.280 | Hallucinogen dependence with hallucinogen-induced anxiety disorder                  | Diagnosis     | ICD-10-CM   |
|         |   |               |             |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| F16.283 | Hallucinogen dependence with hallucinogen persisting perception                                | Diagnosis     | ICD-10-CM |
|         | disorder (flashbacks)  |               |           |
| F16.288 | Hallucinogen dependence with other hallucinogen-induced disorder                               | Diagnosis     | ICD-10-CM |
| F16.29  | Hallucinogen dependence with unspecified hallucinogen-induced                                  | Diagnosis     | ICD-10-CM |
|         | disorder   |               |           |
| F16.90  | Hallucinogen use, unspecified, uncomplicated   | 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 |
| 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 |
| F16.950 | 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 |
| F16.980 | 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 |
| 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 |
| F17.213 | 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 |
| 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-<br>induced disorders          | 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 |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code    | Description  | Code Category | Code Type   |
|---------|--|---------------|-------------|
| F18.10  | Inhalant abuse, uncomplicated  | Diagnosis     | ICD-10-CM   |
| F18.11  | Inhalant abuse, in remission   | 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   |
| F18.150 | 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   |
| F18.180 | 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   |
| F18.220 | 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   |
| F18.250 | Inhalant dependence with inhalant-induced psychotic disorder with                      | Diagnosis     | ICD-10-CM   |
| 110.230 | delusions  | Diagnosis     | ICD TO CIVI |
| 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   |
| F18.280 | 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   |
| F18.90  | Inhalant use, unspecified, uncomplicated   | Diagnosis     | ICD-10-CM   |
| 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   |
| F18.950 | 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   |
| F18.980 | 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   |
| F19.10  | Other psychoactive substance abuse, uncomplicated                                      | Diagnosis     | ICD-10-CM   |
| . 15.10 | other psychoaetive substance abase, uncomplicated                                      | 2145110313    | LOD TO CIVI |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code    | Description   | Code Category | Code Type |
|---------|---|---------------|-----------|
| F19.11  | Other psychoactive substance abuse, in remission  | 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 |
| F19.14  | Other psychoactive substance abuse with psychoactive substance-induced mood disorder                              | Diagnosis     | ICD-10-CM |
| F19.150 | Other psychoactive substance abuse with psychoactive substance-<br>induced psychotic disorder with delusions      | Diagnosis     | ICD-10-CM |
| F19.151 | Other psychoactive substance abuse with psychoactive substance-<br>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-<br>induced persisting dementia                    | Diagnosis     | ICD-10-CM |
| F19.180 | Other psychoactive substance abuse with psychoactive substance-<br>induced anxiety disorder                       | Diagnosis     | ICD-10-CM |
| F19.181 | Other psychoactive substance abuse with psychoactive substance-<br>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 |
| F19.21  | Other psychoactive substance dependence, in remission   | 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 |
| F19.230 | 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 |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code    | Description  | Code Category | Code Type |
|---------|--|---------------|-----------|
| F19.250 | Other psychoactive substance dependence with psychoactive  | Diagnosis     | ICD-10-CM |
|         | substance-induced psychotic disorder with delusions  |               |           |
| F19.251 | Other psychoactive substance dependence with psychoactive  | Diagnosis     | ICD-10-CM |
|         | substance-induced psychotic disorder with hallucinations   |               |           |
| F19.259 | Other psychoactive substance dependence with psychoactive  | Diagnosis     | ICD-10-CM |
|         | substance-induced psychotic disorder, unspecified  |               |           |
| F19.26  | Other psychoactive substance dependence with psychoactive  | Diagnosis     | ICD-10-CM |
|         | substance-induced persisting amnestic disorder   |               |           |
| F19.27  | Other psychoactive substance dependence with psychoactive  | Diagnosis     | ICD-10-CM |
|         | substance-induced persisting dementia  |               |           |
| F19.280 | Other psychoactive substance dependence with psychoactive  | Diagnosis     | ICD-10-CM |
|         | substance-induced anxiety disorder   |               |           |
| F19.281 | Other psychoactive substance dependence with psychoactive  | Diagnosis     | ICD-10-CM |
|         | substance-induced sexual dysfunction   |               |           |
| F19.282 | Other psychoactive substance dependence with psychoactive  | Diagnosis     | ICD-10-CM |
|         | substance-induced sleep disorder   |               |           |
| F19.288 | Other psychoactive substance dependence with other psychoactive  | Diagnosis     | ICD-10-CM |
|         | substance-induced disorder   |               |           |
| F19.29  | Other psychoactive substance dependence with unspecified   | Diagnosis     | ICD-10-CM |
|         | psychoactive substance-induced disorder  |               |           |
| F19.90  | Other psychoactive substance use, unspecified, uncomplicated   | 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 |
| F19.930 | 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 |
| F19.94  | Other psychoactive substance use, unspecified with psychoactive substance-induced mood 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  | Diagnosis     | ICD-10-CM |
| F19.959 | substance-induced psychotic disorder with hallucinations Other psychoactive substance use, unspecified with psychoactive substance-induced psychotic disorder, unspecified | Diagnosis     | ICD-10-CM |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code            | Description  | Code Category | Code Type  |
|-----------------|--|---------------|------------|
| F19.96          | Other psychoactive substance use, unspecified with psychoactive  | Diagnosis     | ICD-10-CM  |
|                 | substance-induced persisting amnestic disorder   |               |            |
| F19.97          | Other psychoactive substance use, unspecified with psychoactive  | Diagnosis     | ICD-10-CM  |
|                 | substance-induced persisting dementia  |               |            |
| F19.980         | Other psychoactive substance use, unspecified with psychoactive  | Diagnosis     | ICD-10-CM  |
|                 | substance-induced anxiety disorder   |               |            |
| F19.981         | Other psychoactive substance use, unspecified with psychoactive  | Diagnosis     | ICD-10-CM  |
|                 | substance-induced sexual dysfunction   |               |            |
| F19.982         | Other psychoactive substance use, unspecified with psychoactive  | Diagnosis     | ICD-10-CM  |
|                 | substance-induced sleep disorder   |               |            |
| F19.988         | Other psychoactive substance use, unspecified with other   | Diagnosis     | ICD-10-CM  |
|                 | psychoactive substance-induced disorder  |               |            |
| F19.99          | Other psychoactive substance use, unspecified with unspecified   | Diagnosis     | ICD-10-CM  |
|                 | psychoactive substance-induced disorder  |               |            |
| 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  |
| O99.320         | Drug use complicating pregnancy, unspecified trimester   | Diagnosis     | ICD-10-CM  |
| 099.321         | Drug use complicating pregnancy, first trimester   | Diagnosis     | ICD-10-CM  |
| O99.322         | Drug use complicating pregnancy, second trimester  | Diagnosis     | ICD-10-CM  |
| O99.323         | Drug use complicating pregnancy, third trimester   | Diagnosis     | ICD-10-CM  |
| O99.324         | Drug use complicating childbirth   | Diagnosis     | ICD-10-CM  |
| O99.325         | Drug use complicating the puerperium   | Diagnosis     | ICD-10-CM  |
| V65.42          | Counseling on substance use and abuse  | Diagnosis     | ICD-9-CM   |
|                 | History of CABG or PTCA Procedure and Diagnosis Coo  | les           |            |
| 0.66            | Porcutaneous transluminal coronary angion lasty [DTCA]   | Procedure     | ICD-9-CM   |
| 0.00<br>027034Z | Percutaneous transluminal coronary angioplasty [PTCA] Dilation of Coronary Artery, One Artery with Drug-eluting Intraluminal |               | ICD-10-PCS |
| 0270342         | Device, Percutaneous Approach  | riocedure     | ICD-10-PC3 |
| 027035Z         | Dilation of Coronary Artery, One Artery with Two Drug-eluting  | Procedure     | ICD-10-PCS |
| 0270332         | Intraluminal Devices, Percutaneous Approach  | riocedure     | ICD-10-PC3 |
| 027036Z         | Dilation of Coronary Artery, One Artery with Three Drug-eluting  | Procedure     | ICD-10-PCS |
| 0270362         | Intraluminal Devices, Percutaneous Approach  | Procedure     | ICD-10-PC3 |
| 027037Z         | Dilation of Coronary Artery, One Artery with Four or More Drug-  | Procedure     | ICD-10-PCS |
| 02/03/2         | eluting Intraluminal Devices, Percutaneous Approach  | riocedure     | ICD-10-PC3 |
| 02703D6         | Dilation of Coronary Artery, One Artery, Bifurcation, with Intraluminal  | Procedure     | ICD-10-PCS |
| 0270300         | Device, Percutaneous Approach  | FIOCEGUIE     | ICD-10-4C3 |
| 02703DZ         | Dilation of Coronary Artery, One Artery with Intraluminal Device,  | Procedure     | ICD-10-PCS |
| 02/0302         | Percutaneous Approach  | Trocedure     | ICD-10-4C3 |
| 02703EZ         | Dilation of Coronary Artery, One Artery with Two Intraluminal Devices,   | Procedure     | ICD-10-PCS |
| UZ/USEZ         |  | FIOCEGUIE     | ICD-10-4C3 |
|                 | Percutaneous Approach  |               |            |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code    | Description   | Code Category | Code Type   |
|---------|---|---------------|-------------|
| 02703F6 | Dilation of Coronary Artery, One Artery, Bifurcation, with Three                                  | Procedure     | ICD-10-PCS  |
|         | Intraluminal Devices, Percutaneous Approach   |               |             |
| 02703FZ | Dilation of Coronary Artery, One Artery with Three Intraluminal                                   | Procedure     | ICD-10-PCS  |
|         | Devices, Percutaneous Approach  |               |             |
| 02703G6 | Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More                           | Procedure     | ICD-10-PCS  |
|         | Intraluminal Devices, Percutaneous Approach   |               |             |
| 02703GZ | Dilation of Coronary Artery, One Artery with Four or More Intraluminal                            | Procedure     | ICD-10-PCS  |
|         | Devices, Percutaneous Approach  |               |             |
| 02703T6 | Dilation of Coronary Artery, One Artery, Bifurcation, with Radioactive                            | Procedure     | ICD-10-PCS  |
|         | Intraluminal Device, Percutaneous Approach  |               |             |
| 02703TZ | Dilation of Coronary Artery, One Artery with Radioactive Intraluminal                             | Procedure     | ICD-10-PCS  |
|         | Device, Percutaneous Approach   |               |             |
| 02703Z6 | Dilation of Coronary Artery, One Artery, Bifurcation, Percutaneous                                | Procedure     | ICD-10-PCS  |
|         | Approach  |               |             |
| 02703ZZ | Dilation of Coronary Artery, One Artery, Percutaneous Approach                                    | Procedure     | ICD-10-PCS  |
| 027044Z | Dilation of Coronary Artery, One Artery with Drug-eluting Intraluminal                            | Procedure     | ICD-10-PCS  |
|         | Device, Percutaneous Endoscopic Approach  |               |             |
| 027045Z | Dilation of Coronary Artery, One Artery with Two Drug-eluting                                     | Procedure     | ICD-10-PCS  |
|         | Intraluminal Devices, Percutaneous Endoscopic Approach  |               |             |
| 027046Z | Dilation of Coronary Artery, One Artery with Three Drug-eluting                                   | Procedure     | ICD-10-PCS  |
|         | Intraluminal Devices, Percutaneous Endoscopic Approach  |               |             |
| 027047Z | Dilation of Coronary Artery, One Artery with Four or More Drug-                                   | Procedure     | ICD-10-PCS  |
|         | eluting Intraluminal Devices, Percutaneous Endoscopic Approach                                    |               |             |
| 02704D6 | Dilation of Coronary Artery, One Artery, Bifurcation, with Intraluminal                           | Procedure     | ICD-10-PCS  |
| 0270407 | Device, Percutaneous Endoscopic Approach  | 5 .           | 16D 40 D66  |
| 02704DZ | Dilation of Coronary Artery, One Artery with Intraluminal Device,                                 | Procedure     | ICD-10-PCS  |
| 0270457 | Percutaneous Endoscopic Approach  | Dunnadium     | ICD 10 DCC  |
| 02704EZ | Dilation of Coronary Artery, One Artery with Two Intraluminal Devices,                            | Procedure     | ICD-10-PCS  |
| 02704F6 | Percutaneous Endoscopic Approach Dilation of Coronary Artery, One Artery, Bifurcation, with Three | Procedure     | ICD-10-PCS  |
| 02704F6 | Intraluminal Devices, Percutaneous Endoscopic Approach  | Procedure     | ICD-10-PC3  |
| 02704FZ | Dilation of Coronary Artery, One Artery with Three Intraluminal                                   | Procedure     | ICD-10-PCS  |
| 02704FZ | Devices, Percutaneous Endoscopic Approach   | riocedule     | ICD-10-PC3  |
| 02704G6 | Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More                           | Procedure     | ICD-10-PCS  |
| 0270400 | Intraluminal Devices, Percutaneous Endoscopic Approach  | rroccaare     | 100 10 1 05 |
| 02704GZ | Dilation of Coronary Artery, One Artery with Four or More Intraluminal                            | Procedure     | ICD-10-PCS  |
| 0270102 | Devices, Percutaneous Endoscopic Approach   | 110004410     | 100 10 1 00 |
| 02704T6 | Dilation of Coronary Artery, One Artery, Bifurcation, with Radioactive                            | Procedure     | ICD-10-PCS  |
| 0_700   | Intraluminal Device, Percutaneous Endoscopic Approach   |               | .02 20 . 00 |
| 02704TZ | Dilation of Coronary Artery, One Artery with Radioactive Intraluminal                             | Procedure     | ICD-10-PCS  |
|         | Device, Percutaneous Endoscopic Approach  |               |             |
| 02704Z6 | Dilation of Coronary Artery, One Artery, Bifurcation, Percutaneous                                | Procedure     | ICD-10-PCS  |
|         | Endoscopic Approach   |               |             |
| 02704ZZ | Dilation of Coronary Artery, One Artery, Percutaneous Endoscopic                                  | Procedure     | ICD-10-PCS  |
|         | Approach  |               |             |
|         |   |               |             |

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| Code    | Description  | Code Category | Code Type  |
|---------|--|---------------|------------|
| 027134Z | Dilation of Coronary Artery, Two Arteries with Drug-eluting              | Procedure     | ICD-10-PCS |
|         | Intraluminal Device, Percutaneous Approach                               |               |            |
| 027135Z | Dilation of Coronary Artery, Two Arteries with Two Drug-eluting          | Procedure     | ICD-10-PCS |
|         | Intraluminal Devices, Percutaneous Approach                              |               |            |
| 027136Z | Dilation of Coronary Artery, Two Arteries with Three Drug-eluting        | Procedure     | ICD-10-PCS |
|         | Intraluminal Devices, Percutaneous Approach                              |               |            |
| 027137Z | Dilation of Coronary Artery, Two Arteries with Four or More Drug-        | Procedure     | ICD-10-PCS |
|         | eluting Intraluminal Devices, Percutaneous Approach                      |               |            |
| 02713D6 | Dilation of Coronary Artery, Two Arteries, Bifurcation, with             | Procedure     | ICD-10-PCS |
|         | Intraluminal Device, Percutaneous Approach                               |               |            |
| 02713DZ | Dilation of Coronary Artery, Two Arteries with Intraluminal Device,      | Procedure     | ICD-10-PCS |
|         | Percutaneous Approach  |               |            |
| 02713EZ | Dilation of Coronary Artery, Two Arteries with Two Intraluminal          | Procedure     | ICD-10-PCS |
|         | Devices, Percutaneous Approach   |               |            |
| 02713F6 | Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three       | Procedure     | ICD-10-PCS |
|         | Intraluminal Devices, Percutaneous Approach                              |               |            |
| 02713FZ | Dilation of Coronary Artery, Two Arteries with Three Intraluminal        | Procedure     | ICD-10-PCS |
|         | Devices, Percutaneous Approach   |               |            |
| 02713G6 | Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or     | Procedure     | ICD-10-PCS |
|         | More Intraluminal Devices, Percutaneous Approach                         |               |            |
| 02713GZ | Dilation of Coronary Artery, Two Arteries with Four or More              | Procedure     | ICD-10-PCS |
|         | Intraluminal Devices, Percutaneous Approach                              |               |            |
| 02713T6 | Dilation of Coronary Artery, Two Arteries, Bifurcation, with Radioactive | Procedure     | ICD-10-PCS |
|         | Intraluminal Device, Percutaneous Approach                               |               |            |
| 02713TZ | Dilation of Coronary Artery, Two Arteries with Radioactive Intraluminal  | Procedure     | ICD-10-PCS |
|         | Device, Percutaneous Approach  |               |            |
| 02713Z6 | Dilation of Coronary Artery, Two Arteries, Bifurcation, Percutaneous     | Procedure     | ICD-10-PCS |
|         | Approach   |               |            |
| 02713ZZ | Dilation of Coronary Artery, Two Arteries, Percutaneous Approach         | Procedure     | ICD-10-PCS |
| 027144Z | Dilation of Coronary Artery, Two Arteries with Drug-eluting              | Procedure     | ICD-10-PCS |
|         | Intraluminal Device, Percutaneous Endoscopic Approach                    |               |            |
| 027145Z | Dilation of Coronary Artery, Two Arteries with Two Drug-eluting          | Procedure     | ICD-10-PCS |
|         | Intraluminal Devices, Percutaneous Endoscopic Approach                   |               |            |
| 027146Z | Dilation of Coronary Artery, Two Arteries with Three Drug-eluting        | Procedure     | ICD-10-PCS |
|         | Intraluminal Devices, Percutaneous Endoscopic Approach                   |               |            |
| 027147Z | Dilation of Coronary Artery, Two Arteries with Four or More Drug-        | Procedure     | ICD-10-PCS |
|         | eluting Intraluminal Devices, Percutaneous Endoscopic Approach           |               |            |
| 02714D6 | Dilation of Coronary Artery, Two Arteries, Bifurcation, with             | Procedure     | ICD-10-PCS |
| 0074457 | Intraluminal Device, Percutaneous Endoscopic Approach                    | - 1           | 100 10 000 |
| 02714DZ | Dilation of Coronary Artery, Two Arteries with Intraluminal Device,      | Procedure     | ICD-10-PCS |
| 0274457 | Percutaneous Endoscopic Approach   | Dunnandur     | ICD 10 DCC |
| 02714EZ | Dilation of Coronary Artery, Two Arteries with Two Intraluminal          | Procedure     | ICD-10-PCS |
| 0271456 | Devices, Percutaneous Endoscopic Approach                                | Dun na di     | ICD 10 DCC |
| 02714F6 | Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three       | Procedure     | ICD-10-PCS |
|         | Intraluminal Devices, Percutaneous Endoscopic Approach                   |               |            |

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| Code    | Description  | Code Category | Code Type   |
|---------|--|---------------|-------------|
| 02714FZ | Dilation of Coronary Artery, Two Arteries with Three Intraluminal  | Procedure     | ICD-10-PCS  |
|         | Devices, Percutaneous Endoscopic Approach  |               |             |
| 02714G6 | Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or   | Procedure     | ICD-10-PCS  |
|         | More Intraluminal Devices, Percutaneous Endoscopic Approach  |               |             |
| 02714GZ | Dilation of Coronary Artery, Two Arteries with Four or More  | Procedure     | ICD-10-PCS  |
|         | Intraluminal Devices, Percutaneous Endoscopic Approach   |               |             |
| 02714T6 | Dilation of Coronary Artery, Two Arteries, Bifurcation, with Radioactive   | Procedure     | ICD-10-PCS  |
|         | Intraluminal Device, Percutaneous Endoscopic Approach  |               |             |
| 02714TZ | Dilation of Coronary Artery, Two Arteries with Radioactive Intraluminal  | Procedure     | ICD-10-PCS  |
|         | Device, Percutaneous Endoscopic Approach   |               |             |
| 02714Z6 | Dilation of Coronary Artery, Two Arteries, Bifurcation, Percutaneous   | Procedure     | ICD-10-PCS  |
|         | Endoscopic Approach  |               |             |
| 02714ZZ | Dilation of Coronary Artery, Two Arteries, Percutaneous Endoscopic   | Procedure     | ICD-10-PCS  |
|         | Approach   |               |             |
| 027234Z | Dilation of Coronary Artery, Three Arteries with Drug-eluting  | Procedure     | ICD-10-PCS  |
|         | Intraluminal Device, Percutaneous Approach   |               | 100 10 000  |
| 027235Z | Dilation of Coronary Artery, Three Arteries with Two Drug-eluting  | Procedure     | ICD-10-PCS  |
| 0272267 | Intraluminal Devices, Percutaneous Approach  | Dunnalium     | ICD 10 DCC  |
| 027236Z | Dilation of Coronary Artery, Three Arteries with Three Drug-eluting  | Procedure     | ICD-10-PCS  |
| 027227  | Intraluminal Devices, Percutaneous Approach  | Procedure     | ICD 10 DCC  |
| 027237Z | Dilation of Coronary Artery, Three Arteries with Four or More Drug-<br>eluting Intraluminal Devices, Percutaneous Approach | Procedure     | ICD-10-PCS  |
| 02723D6 | Dilation of Coronary Artery, Three Arteries, Bifurcation, with   | Procedure     | ICD-10-PCS  |
| 0272300 | Intraluminal Device, Percutaneous Approach   | riocedure     | ICD-10-FC3  |
| 02723DZ | Dilation of Coronary Artery, Three Arteries with Intraluminal Device,  | Procedure     | ICD-10-PCS  |
| 0272302 | Percutaneous Approach  | Troccaure     | 100 10 1 05 |
| 02723EZ | Dilation of Coronary Artery, Three Arteries with Two Intraluminal  | Procedure     | ICD-10-PCS  |
| 01/1011 | Devices, Percutaneous Approach   |               | .02 20 . 00 |
| 02723F6 | Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three   | Procedure     | ICD-10-PCS  |
|         | Intraluminal Devices, Percutaneous Approach  |               |             |
| 02723FZ | Dilation of Coronary Artery, Three Arteries with Three Intraluminal  | Procedure     | ICD-10-PCS  |
|         | Devices, Percutaneous Approach   |               |             |
| 02723G6 | Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or   | Procedure     | ICD-10-PCS  |
|         | More Intraluminal Devices, Percutaneous Approach   |               |             |
| 02723GZ | Dilation of Coronary Artery, Three Arteries with Four or More  | Procedure     | ICD-10-PCS  |
|         | Intraluminal Devices, Percutaneous Approach  |               |             |
| 02723T6 | Dilation of Coronary Artery, Three Arteries, Bifurcation, with   | Procedure     | ICD-10-PCS  |
|         | Radioactive Intraluminal Device, Percutaneous Approach   |               |             |
| 02723TZ | Dilation of Coronary Artery, Three Arteries with Radioactive   | Procedure     | ICD-10-PCS  |
|         | Intraluminal Device, Percutaneous Approach   |               |             |
| 02723Z6 | Dilation of Coronary Artery, Three Arteries, Bifurcation, Percutaneous   | Procedure     | ICD-10-PCS  |
|         | Approach   |               |             |
| 02723ZZ | Dilation of Coronary Artery, Three Arteries, Percutaneous Approach   | Procedure     | ICD-10-PCS  |
| 027244Z | Dilation of Coronary Artery, Three Arteries with Drug-eluting  | Procedure     | ICD-10-PCS  |
|         | Intraluminal Device, Percutaneous Endoscopic Approach  |               |             |

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| Code    | Description  | Code Category | Code Type  |
|---------|--|---------------|------------|
| 027245Z | Dilation of Coronary Artery, Three Arteries with Two Drug-eluting      | Procedure     | ICD-10-PCS |
|         | Intraluminal Devices, Percutaneous Endoscopic Approach                 |               |            |
| 027246Z | Dilation of Coronary Artery, Three Arteries with Three Drug-eluting    | Procedure     | ICD-10-PCS |
|         | Intraluminal Devices, Percutaneous Endoscopic Approach                 |               |            |
| 027247Z | Dilation of Coronary Artery, Three Arteries with Four or More Drug-    | Procedure     | ICD-10-PCS |
|         | eluting Intraluminal Devices, Percutaneous Endoscopic Approach         |               |            |
| 02724D6 | Dilation of Coronary Artery, Three Arteries, Bifurcation, with         | Procedure     | ICD-10-PCS |
|         | Intraluminal Device, Percutaneous Endoscopic Approach                  |               |            |
| 02724DZ | Dilation of Coronary Artery, Three Arteries with Intraluminal Device,  | Procedure     | ICD-10-PCS |
|         | Percutaneous Endoscopic Approach                                       |               |            |
| 02724EZ | Dilation of Coronary Artery, Three Arteries with Two Intraluminal      | Procedure     | ICD-10-PCS |
|         | Devices, Percutaneous Endoscopic Approach                              |               |            |
| 02724F6 | Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three   | Procedure     | ICD-10-PCS |
|         | Intraluminal Devices, Percutaneous Endoscopic Approach                 |               |            |
| 02724FZ | Dilation of Coronary Artery, Three Arteries with Three Intraluminal    | Procedure     | ICD-10-PCS |
|         | Devices, Percutaneous Endoscopic Approach                              |               |            |
| 02724G6 | Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or | Procedure     | ICD-10-PCS |
|         | More Intraluminal Devices, Percutaneous Endoscopic Approach            |               |            |
| 02724GZ | Dilation of Coronary Artery, Three Arteries with Four or More          | Procedure     | ICD-10-PCS |
|         | Intraluminal Devices, Percutaneous Endoscopic Approach                 |               |            |
| 02724T6 | Dilation of Coronary Artery, Three Arteries, Bifurcation, with         | Procedure     | ICD-10-PCS |
|         | Radioactive Intraluminal Device, Percutaneous Endoscopic Approach      |               |            |
| 02724TZ | Dilation of Coronary Artery, Three Arteries with Radioactive           | Procedure     | ICD-10-PCS |
|         | Intraluminal Device, Percutaneous Endoscopic Approach                  |               |            |
| 02724Z6 | Dilation of Coronary Artery, Three Arteries, Bifurcation, Percutaneous | Procedure     | ICD-10-PCS |
|         | Endoscopic Approach  |               |            |
| 02724ZZ | Dilation of Coronary Artery, Three Arteries, Percutaneous Endoscopic   | Procedure     | ICD-10-PCS |
|         | Approach   |               |            |
| 027334Z | Dilation of Coronary Artery, Four or More Arteries with Drug-eluting   | Procedure     | ICD-10-PCS |
|         | Intraluminal Device, Percutaneous Approach                             |               |            |
| 027335Z | Dilation of Coronary Artery, Four or More Arteries with Two Drug-      | Procedure     | ICD-10-PCS |
|         | eluting Intraluminal Devices, Percutaneous Approach                    |               |            |
| 027336Z | Dilation of Coronary Artery, Four or More Arteries with Three Drug-    | Procedure     | ICD-10-PCS |
|         | eluting Intraluminal Devices, Percutaneous Approach                    |               |            |
| 027337Z | Dilation of Coronary Artery, Four or More Arteries with Four or More   | Procedure     | ICD-10-PCS |
|         | Drug-eluting Intraluminal Devices, Percutaneous Approach               |               |            |
| 02733D6 | Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with  | Procedure     | ICD-10-PCS |
|         | Intraluminal Device, Percutaneous Approach                             |               |            |
| 02733DZ | Dilation of Coronary Artery, Four or More Arteries with Intraluminal   | Procedure     | ICD-10-PCS |
|         | Device, Percutaneous Approach  |               |            |
| 02733EZ | Dilation of Coronary Artery, Four or More Arteries with Two            | Procedure     | ICD-10-PCS |
|         | Intraluminal Devices, Percutaneous Approach                            |               |            |
| 02733F6 | Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with  | Procedure     | ICD-10-PCS |
|         | Three Intraluminal Devices, Percutaneous Approach                      |               |            |

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| Code    | Description   | Code Category | Code Type  |
|---------|---|---------------|------------|
| 02733FZ | Dilation of Coronary Artery, Four or More Arteries with Three         | Procedure     | ICD-10-PCS |
|         | Intraluminal Devices, Percutaneous Approach                           |               |            |
| 02733G6 | Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with | Procedure     | ICD-10-PCS |
|         | Four or More Intraluminal Devices, Percutaneous Approach              |               |            |
| 02733GZ | Dilation of Coronary Artery, Four or More Arteries with Four or More  | Procedure     | ICD-10-PCS |
|         | Intraluminal Devices, Percutaneous Approach                           |               |            |
| 02733T6 | Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with | Procedure     | ICD-10-PCS |
|         | Radioactive Intraluminal Device, Percutaneous Approach                |               |            |
| 02733TZ | Dilation of Coronary Artery, Four or More Arteries with Radioactive   | Procedure     | ICD-10-PCS |
|         | Intraluminal Device, Percutaneous Approach                            |               |            |
| 02733Z6 | Dilation of Coronary Artery, Four or More Arteries, Bifurcation,      | Procedure     | ICD-10-PCS |
|         | Percutaneous Approach   |               |            |
| 02733ZZ | Dilation of Coronary Artery, Four or More Arteries, Percutaneous      | Procedure     | ICD-10-PCS |
|         | Approach  |               |            |
| 027344Z | Dilation of Coronary Artery, Four or More Arteries with Drug-eluting  | Procedure     | ICD-10-PCS |
|         | Intraluminal Device, Percutaneous Endoscopic Approach                 |               |            |
| 027345Z | Dilation of Coronary Artery, Four or More Arteries with Two Drug-     | Procedure     | ICD-10-PCS |
|         | eluting Intraluminal Devices, Percutaneous Endoscopic Approach        |               |            |
| 027346Z | Dilation of Coronary Artery, Four or More Arteries with Three Drug-   | Procedure     | ICD-10-PCS |
|         | eluting Intraluminal Devices, Percutaneous Endoscopic Approach        |               |            |
| 027347Z | Dilation of Coronary Artery, Four or More Arteries with Four or More  | Procedure     | ICD-10-PCS |
|         | Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach   |               |            |
| 02734D6 | Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with | Procedure     | ICD-10-PCS |
|         | Intraluminal Device, Percutaneous Endoscopic Approach                 |               |            |
| 02734DZ | Dilation of Coronary Artery, Four or More Arteries with Intraluminal  | Procedure     | ICD-10-PCS |
|         | Device, Percutaneous Endoscopic Approach                              |               |            |
| 02734EZ | Dilation of Coronary Artery, Four or More Arteries with Two           | Procedure     | ICD-10-PCS |
|         | Intraluminal Devices, Percutaneous Endoscopic Approach                |               |            |
| 02734F6 | Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with | Procedure     | ICD-10-PCS |
|         | Three Intraluminal Devices, Percutaneous Endoscopic Approach          |               |            |
| 02734FZ | Dilation of Coronary Artery, Four or More Arteries with Three         | Procedure     | ICD-10-PCS |
|         | Intraluminal Devices, Percutaneous Endoscopic Approach                |               |            |
| 02734G6 | Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with | Procedure     | ICD-10-PCS |
|         | Four or More Intraluminal Devices, Percutaneous Endoscopic            |               |            |
|         | Approach  |               |            |
| 02734GZ | Dilation of Coronary Artery, Four or More Arteries with Four or More  | Procedure     | ICD-10-PCS |
|         | Intraluminal Devices, Percutaneous Endoscopic Approach                |               |            |
| 02734T6 | Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with | Procedure     | ICD-10-PCS |
|         | Radioactive Intraluminal Device, Percutaneous Endoscopic Approach     |               |            |
| 02734TZ | Dilation of Coronary Artery, Four or More Arteries with Radioactive   | Procedure     | ICD-10-PCS |
|         | Intraluminal Device, Percutaneous Endoscopic Approach                 |               |            |
| 02734Z6 | Dilation of Coronary Artery, Four or More Arteries, Bifurcation,      | Procedure     | ICD-10-PCS |
|         | Percutaneous Endoscopic Approach                                      |               |            |
|         |   |               |            |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code       | Description  | Code Category | Code Type  |
|------------|--|---------------|------------|
| 02734ZZ    | Dilation of Coronary Artery, Four or More Arteries, Percutaneous         | Procedure     | ICD-10-PCS |
|            | Endoscopic Approach  |               |            |
| 2703000000 | Dilation of Coronary Artery, One Artery, Bifurcation, with Two           | Procedure     | ICD-10-PCS |
|            | Intraluminal Devices, Percutaneous Approach                              |               |            |
| 270346     | Dilation of Coronary Artery, One Artery, Bifurcation, with Drug-eluting  | Procedure     | ICD-10-PCS |
|            | Intraluminal Device, Percutaneous Approach                               |               |            |
| 270356     | Dilation of Coronary Artery, One Artery, Bifurcation, with Two Drug-     | Procedure     | ICD-10-PCS |
|            | eluting Intraluminal Devices, Percutaneous Approach                      |               |            |
| 270366     | Dilation of Coronary Artery, One Artery, Bifurcation, with Three Drug-   | Procedure     | ICD-10-PCS |
|            | eluting Intraluminal Devices, Percutaneous Approach                      |               |            |
| 270376     | Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More  | Procedure     | ICD-10-PCS |
|            | Drug-eluting Intraluminal Devices, Percutaneous Approach                 |               |            |
| 2704000000 | Dilation of Coronary Artery, One Artery, Bifurcation, with Two           | Procedure     | ICD-10-PCS |
|            | Intraluminal Devices, Percutaneous Endoscopic Approach                   |               |            |
| 270446     | Dilation of Coronary Artery, One Artery, Bifurcation, with Drug-eluting  | Procedure     | ICD-10-PCS |
|            | Intraluminal Device, Percutaneous Endoscopic Approach                    |               |            |
| 270456     | Dilation of Coronary Artery, One Artery, Bifurcation, with Two Drug-     | Procedure     | ICD-10-PCS |
|            | eluting Intraluminal Devices, Percutaneous Endoscopic Approach           |               |            |
| 270466     | Dilation of Coronary Artery, One Artery, Bifurcation, with Three Drug-   | Procedure     | ICD-10-PCS |
|            | eluting Intraluminal Devices, Percutaneous Endoscopic Approach           |               |            |
| 270476     | Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More  | Procedure     | ICD-10-PCS |
|            | Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach      |               |            |
| 2713000000 | Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two         | Procedure     | ICD-10-PCS |
|            | Intraluminal Devices, Percutaneous Approach                              |               |            |
| 271346     | Dilation of Coronary Artery, Two Arteries, Bifurcation, with Drug-       | Procedure     | ICD-10-PCS |
|            | eluting Intraluminal Device, Percutaneous Approach                       |               |            |
| 271356     | Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Drug-   | Procedure     | ICD-10-PCS |
|            | eluting Intraluminal Devices, Percutaneous Approach                      |               |            |
| 271366     | Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Drug- | - Procedure   | ICD-10-PCS |
|            | eluting Intraluminal Devices, Percutaneous Approach                      |               |            |
| 271376     | Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or     | Procedure     | ICD-10-PCS |
|            | More Drug-eluting Intraluminal Devices, Percutaneous Approach            |               |            |
| 2714000000 | Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two         | Procedure     | ICD-10-PCS |
|            | Intraluminal Devices, Percutaneous Endoscopic Approach                   |               |            |
| 271446     | Dilation of Coronary Artery, Two Arteries, Bifurcation, with Drug-       | Procedure     | ICD-10-PCS |
|            | eluting Intraluminal Device, Percutaneous Endoscopic Approach            |               |            |
| 271456     | Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Drug-   | Procedure     | ICD-10-PCS |
|            | eluting Intraluminal Devices, Percutaneous Endoscopic Approach           |               |            |
| 271466     | Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Drug- | - Procedure   | ICD-10-PCS |
|            | eluting Intraluminal Devices, Percutaneous Endoscopic Approach           |               |            |
| 271476     | Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or     | Procedure     | ICD-10-PCS |
|            | More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic          |               |            |
|            | Approach   |               |            |
|            | • •  |               |            |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code       | Description  | Code Category | Code Type  |
|------------|--|---------------|------------|
| 2723000000 | Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two       | Procedure     | ICD-10-PCS |
|            | Intraluminal Devices, Percutaneous Approach                              |               |            |
| 272346     | Dilation of Coronary Artery, Three Arteries, Bifurcation, with Drug-     | Procedure     | ICD-10-PCS |
|            | eluting Intraluminal Device, Percutaneous Approach                       |               |            |
| 272356     | Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Drug- | Procedure     | ICD-10-PCS |
|            | eluting Intraluminal Devices, Percutaneous Approach                      |               |            |
| 272366     | Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three     | Procedure     | ICD-10-PCS |
|            | Drug-eluting Intraluminal Devices, Percutaneous Approach                 |               |            |
| 272376     | Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or   | Procedure     | ICD-10-PCS |
|            | More Drug-eluting Intraluminal Devices, Percutaneous Approach            |               |            |
| 2724000000 | Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two       | Procedure     | ICD-10-PCS |
|            | Intraluminal Devices, Percutaneous Endoscopic Approach                   |               |            |
| 272446     | Dilation of Coronary Artery, Three Arteries, Bifurcation, with Drug-     | Procedure     | ICD-10-PCS |
|            | eluting Intraluminal Device, Percutaneous Endoscopic Approach            |               |            |
| 272456     | Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Drug- | Procedure     | ICD-10-PCS |
|            | eluting Intraluminal Devices, Percutaneous Endoscopic Approach           |               |            |
| 272466     | Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three     | Procedure     | ICD-10-PCS |
|            | Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach      |               |            |
|            |  |               |            |
| 272476     | Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or   | Procedure     | ICD-10-PCS |
|            | More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic          |               |            |
|            | Approach   |               |            |
| 2733000000 | Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with    | Procedure     | ICD-10-PCS |
|            | Two Intraluminal Devices, Percutaneous Approach                          |               |            |
| 273346     | Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with    | Procedure     | ICD-10-PCS |
|            | Drug-eluting Intraluminal Device, Percutaneous Approach                  |               |            |
| 273356     | Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with    | Procedure     | ICD-10-PCS |
|            | Two Drug-eluting Intraluminal Devices, Percutaneous Approach             |               |            |
| 273366     | Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with    | Procedure     | ICD-10-PCS |
|            | Three Drug-eluting Intraluminal Devices, Percutaneous Approach           |               |            |
| 273376     | Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with    | Procedure     | ICD-10-PCS |
|            | Four or More Drug-eluting Intraluminal Devices, Percutaneous             |               |            |
|            | Approach   |               |            |
| 2734000000 | Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with    | Procedure     | ICD-10-PCS |
|            | Two Intraluminal Devices, Percutaneous Endoscopic Approach               |               |            |
| 273446     | Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with    | Procedure     | ICD-10-PCS |
|            | Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach       |               |            |
| 273456     | Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with    | Procedure     | ICD-10-PCS |
|            | Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic           |               |            |
|            | Approach   |               |            |
| 273466     | Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with    | Procedure     | ICD-10-PCS |
|            | Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic         |               |            |
|            | Approach   |               |            |
|            |  |               |            |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code    | Description   | Code Category | Code Type   |
|---------|---|---------------|-------------|
| 273476  | Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with                                   | Procedure     | ICD-10-PCS  |
|         | Four or More Drug-eluting Intraluminal Devices, Percutaneous  |               |             |
|         | Endoscopic Approach   |               |             |
| 36.01   | Single vessel percutaneous transluminal coronary angioplasty [PTCA]                                     | Procedure     | ICD-9-CM    |
|         | or coronary atherectomy without mention of thrombolytic agent   |               |             |
| 36.02   | Single vessel percutaneous transluminal coronary angioplasty [PTCA]                                     | Procedure     | ICD-9-CM    |
|         | or coronary atherectomy with thrombolytic agent   |               |             |
| 36.05   | Multiple vessel (percutaneous) transluminal coronary angioplasty  | Procedure     | ICD-9-CM    |
|         | [PTCA] or coronary atherectomy performed during the same  |               |             |
|         | operation, with or without mention of thrombolytic agent  |               |             |
| 125.7   | Atherosclerosis of coronary artery bypass graft(s) and coronary artery                                  | Diagnosis     | ICD-10-CM   |
|         | of transplanted heart with angina pectoris  |               |             |
| 125.70  | Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris                   | Diagnosis     | ICD-10-CM   |
| 125.700 | Atherosclerosis of coronary artery bypass graft(s), unspecified, with                                   | Diagnosis     | ICD-10-CM   |
|         | unstable angina pectoris  | _             |             |
| 125.701 | Atherosclerosis of coronary artery bypass graft(s), unspecified, with                                   | Diagnosis     | ICD-10-CM   |
|         | angina pectoris with documented spasm   |               |             |
| 125.702 | Atherosclerosis of coronary artery bypass graft(s), unspecified, with                                   | Diagnosis     | ICD-10-CM   |
|         | refractory angina pectoris  |               |             |
| 125.708 | Atherosclerosis of coronary artery bypass graft(s), unspecified, with                                   | Diagnosis     | ICD-10-CM   |
|         | other forms of angina pectoris  |               |             |
| 125.709 | Atherosclerosis of coronary artery bypass graft(s), unspecified, with                                   | Diagnosis     | ICD-10-CM   |
|         | unspecified angina pectoris   |               |             |
| 125.71  | Atherosclerosis of autologous vein coronary artery bypass graft(s) with                                 | Diagnosis     | ICD-10-CM   |
|         | angina pectoris   |               |             |
| 125.710 | Atherosclerosis of autologous vein coronary artery bypass graft(s) with                                 | Diagnosis     | ICD-10-CM   |
|         | unstable angina pectoris  |               |             |
| 125.711 | Atherosclerosis of autologous vein coronary artery bypass graft(s) with                                 | Diagnosis     | ICD-10-CM   |
| 105 740 | angina pectoris with documented spasm   | 5             | 100 40 014  |
| 125.712 | Atherosclerosis of autologous vein coronary artery bypass graft(s) with                                 | Diagnosis     | ICD-10-CM   |
| 125 710 | refractory angina pectoris  Atherosclerosis of autologous vein coronary artery bypass graft(s) with     | Diagnosis     | ICD 10 CM   |
| 125.718 |   | Diagnosis     | ICD-10-CM   |
| 125.719 | other forms of angina pectoris  Atherosclerosis of autologous vein coronary artery bypass graft(s) with | Diagnosis     | ICD-10-CM   |
| 123.719 | unspecified angina pectoris   | Diagnosis     | ICD-10-CIVI |
| 125.72  | Atherosclerosis of autologous artery coronary artery bypass graft(s)                                    | Diagnosis     | ICD-10-CM   |
| 123.72  | with angina pectoris  | Diagnosis     | ICD-10-CIVI |
| 125.720 | Atherosclerosis of autologous artery coronary artery bypass graft(s)                                    | Diagnosis     | ICD-10-CM   |
|         | with unstable angina pectoris   | 45.10010      | .00 10 0111 |
| 125.721 | Atherosclerosis of autologous artery coronary artery bypass graft(s)                                    | Diagnosis     | ICD-10-CM   |
| •       | with angina pectoris with documented spasm  | - 0           |             |
| 125.722 | Atherosclerosis of autologous artery coronary artery bypass graft(s)                                    | Diagnosis     | ICD-10-CM   |
|         | with refractory angina pectoris   | J             |             |
|         |   |               |             |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code     | Description  | Code Category | Code Type   |
|----------|--|---------------|-------------|
| 125.728  | Atherosclerosis of autologous artery coronary artery bypass graft(s)                         | Diagnosis     | ICD-10-CM   |
|          | with other forms of angina pectoris  | _             |             |
| 125.729  | Atherosclerosis of autologous artery coronary artery bypass graft(s)                         | Diagnosis     | ICD-10-CM   |
|          | with unspecified angina pectoris   |               |             |
| 125.73   | Atherosclerosis of nonautologous biological coronary artery bypass                           | Diagnosis     | ICD-10-CM   |
|          | graft(s) with angina pectoris  |               |             |
| 125.730  | Atherosclerosis of nonautologous biological coronary artery bypass                           | Diagnosis     | ICD-10-CM   |
|          | graft(s) with unstable angina pectoris   |               |             |
| 125.731  | Atherosclerosis of nonautologous biological coronary artery bypass                           | Diagnosis     | ICD-10-CM   |
|          | graft(s) with angina pectoris with documented spasm  |               |             |
| 125.732  | Atherosclerosis of nonautologous biological coronary artery bypass                           | Diagnosis     | ICD-10-CM   |
|          | graft(s) with refractory angina pectoris   |               |             |
| 125.738  | Atherosclerosis of nonautologous biological coronary artery bypass                           | Diagnosis     | ICD-10-CM   |
|          | graft(s) with other forms of angina pectoris   |               |             |
| 125.739  | Atherosclerosis of nonautologous biological coronary artery bypass                           | Diagnosis     | ICD-10-CM   |
|          | graft(s) with unspecified angina pectoris  |               |             |
| 125.79   | Atherosclerosis of other coronary artery bypass graft(s) with angina                         | Diagnosis     | ICD-10-CM   |
|          | pectoris   |               |             |
| 125.790  | Atherosclerosis of other coronary artery bypass graft(s) with unstable                       | Diagnosis     | ICD-10-CM   |
| 105 704  | angina pectoris  | <b>5</b>      | 105 10 011  |
| 125.791  | Atherosclerosis of other coronary artery bypass graft(s) with angina                         | Diagnosis     | ICD-10-CM   |
| 125 702  | pectoris with documented spasm   | Diai-         | 100 10 014  |
| 125.792  | Atherosclerosis of other coronary artery bypass graft(s) with refractory                     | Diagnosis     | ICD-10-CM   |
| 125.798  | angina pectoris  Athorosolorosis of other coronary artery bypass graft(s) with other         | Diagnosis     | ICD-10-CM   |
| 125.796  | Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris | Diagnosis     | ICD-10-CIVI |
| 125.799  | Atherosclerosis of other coronary artery bypass graft(s) with                                | Diagnosis     | ICD-10-CM   |
| 123.733  | unspecified angina pectoris  | Diagnosis     | ICD-10-CIVI |
| 125.810  | Atherosclerosis of coronary artery bypass graft(s) without angina                            | Diagnosis     | ICD-10-CM   |
| 123.010  | pectoris   | Diagnosis     | ICD 10 CIVI |
| T82.2    | Mechanical complication of coronary artery bypass graft and biological                       | Diagnosis     | ICD-10-CM   |
| .02.2    | heart valve graft  | Biagnosis     | 105 10 0111 |
| T82.21   | Mechanical complication of coronary artery bypass graft                                      | Diagnosis     | ICD-10-CM   |
| T82.211  | Breakdown (mechanical) of coronary artery bypass graft                                       | Diagnosis     | ICD-10-CM   |
| T82.211A | Breakdown (mechanical) of coronary artery bypass graft, initial                              | Diagnosis     | ICD-10-CM   |
|          | encounter  | J             |             |
| T82.211D | Breakdown (mechanical) of coronary artery bypass graft, subsequent                           | Diagnosis     | ICD-10-CM   |
|          | encounter  | _             |             |
| T82.211S | Breakdown (mechanical) of coronary artery bypass graft, sequela                              | Diagnosis     | ICD-10-CM   |
| T82.212  | Displacement of coronary artery bypass graft   | Diagnosis     | ICD-10-CM   |
| T82.212A | Displacement of coronary artery bypass graft, initial encounter                              | Diagnosis     | ICD-10-CM   |
| T82.212D | Displacement of coronary artery bypass graft, subsequent encounter                           | Diagnosis     | ICD-10-CM   |
| T82.212S | Displacement of coronary artery bypass graft, sequela  | Diagnosis     | ICD-10-CM   |
| T82.213  | Leakage of coronary artery bypass graft  | Diagnosis     | ICD-10-CM   |
| T82.213A | Leakage of coronary artery bypass graft, initial encounter                                   | Diagnosis     | ICD-10-CM   |
|          |  |               |             |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code     | , Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures  Description | Code Category | Code Type   |
|----------|---|---------------|-------------|
| T82.213D | Leakage of coronary artery bypass graft, subsequent encounter                       | Diagnosis     | ICD-10-CM   |
| T82.213S | Leakage of coronary artery bypass graft, sequela                                    | Diagnosis     | ICD-10-CM   |
| T82.218  | Other mechanical complication of coronary artery bypass graft                       | Diagnosis     | ICD-10-CM   |
| T82.218A | Other mechanical complication of coronary artery bypass graft, initial              | Diagnosis     | ICD-10-CM   |
|          | encounter   |               |             |
| T82.218D | Other mechanical complication of coronary artery bypass graft,                      | Diagnosis     | ICD-10-CM   |
|          | subsequent encounter  |               |             |
| T82.218S | Other mechanical complication of coronary artery bypass graft,                      | Diagnosis     | ICD-10-CM   |
|          | sequela   |               |             |
| V45.81   | Postprocedural aortocoronary bypass status  | Diagnosis     | ICD-9-CM    |
| V45.82   | Postprocedural percutaneous transluminal coronary angioplasty status                | Diagnosis     | ICD-9-CM    |
| Z95.1    | Presence of aortocoronary bypass graft  | Diagnosis     | ICD-10-CM   |
| Z95.5    | Presence of coronary angioplasty implant and graft                                  | Diagnosis     | ICD-10-CM   |
| Z98.61   | Coronary angioplasty status   | Diagnosis     | ICD-10-CM   |
|          | History of Sudden Cardiac Arrest Diagnosis Codes                                    |               |             |
| 427.5    | Cardiac arrest  | Diagnosis     | ICD-9-CM    |
| 779.85   | Cardiac arrest of newborn   | Diagnosis     | ICD-9-CM    |
| 146      | Cardiac arrest  | Diagnosis     | ICD-10-CM   |
| 146.2    | Cardiac arrest due to underlying cardiac condition                                  | Diagnosis     | ICD-10-CM   |
| 146.8    | Cardiac arrest due to other underlying condition                                    | Diagnosis     | ICD-10-CM   |
| 146.9    | Cardiac arrest, cause unspecified   | Diagnosis     | ICD-10-CM   |
| 197.12   | Postprocedural cardiac arrest   | Diagnosis     | ICD-10-CM   |
| 197.120  | Postprocedural cardiac arrest following cardiac surgery                             | Diagnosis     | ICD-10-CM   |
| 197.121  | Postprocedural cardiac arrest following other surgery                               | Diagnosis     | ICD-10-CM   |
| 197.71   | Intraoperative cardiac arrest   | Diagnosis     | ICD-10-CM   |
| 197.710  | Intraoperative cardiac arrest during cardiac surgery                                | Diagnosis     | ICD-10-CM   |
| 197.711  | Intraoperative cardiac arrest during other surgery                                  | Diagnosis     | ICD-10-CM   |
| O03.36   | Cardiac arrest following incomplete spontaneous abortion                            | Diagnosis     | ICD-10-CM   |
| O03.86   | Cardiac arrest following complete or unspecified spontaneous abortion               | Diagnosis     | ICD-10-CM   |
| O04.86   | Cardiac arrest following (induced) termination of pregnancy                         | Diagnosis     | ICD-10-CM   |
| 007.36   | Cardiac arrest following failed attempted termination of pregnancy                  | Diagnosis     | ICD-10-CM   |
| O08.81   | Cardiac arrest following an ectopic and molar pregnancy                             | Diagnosis     | ICD-10-CM   |
| 029.11   | Cardiac arrest due to anesthesia during pregnancy                                   | Diagnosis     | ICD-10-CM   |
| O29.111  | Cardiac arrest due to anesthesia during pregnancy, first trimester                  | Diagnosis     | ICD-10-CM   |
| O29.112  | Cardiac arrest due to anesthesia during pregnancy, second trimester                 | Diagnosis     | ICD-10-CM   |
| O29.113  | Cardiac arrest due to anesthesia during pregnancy, third trimester                  | Diagnosis     | ICD-10-CM   |
| O29.119  | Cardiac arrest due to anesthesia during pregnancy, unspecified trimester            | Diagnosis     | ICD-10-CM   |
| P29.81   | Cardiac arrest of newborn   | Diagnosis     | ICD-10-CM   |
| V12.53   | Personal history of sudden cardiac arrest   | Diagnosis     | ICD-9-CM    |
| Z86.74   | Personal history of sudden cardiac arrest   | Diagnosis     | ICD-10-CM   |
| _50.7 .  | . 5.55 History or sudden our did diffest  | 00110010      | .55 10 0111 |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code   | Description  | Code Category | Code Type |
|--------|--|---------------|-----------|
|        | Has Diagnosis Code that Indicates a Range of Body Mass Ind                       |               | 71        |
| V85.0  | Body Mass Index less than 19, adult  | Diagnosis     | ICD-9-CM  |
| V85.1  | Body Mass Index between 19-24, adult   | Diagnosis     | ICD-9-CM  |
| V85.2  | Body Mass Index between 25-29, adult   | Diagnosis     | ICD-9-CM  |
| V85.21 | Body Mass Index 25.0-25.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.22 | Body Mass Index 26.0-26.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.23 | Body Mass Index 27.0-27.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.24 | Body Mass Index 28.0-28.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.25 | Body Mass Index 29.0-29.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.3  | Body Mass Index between 30-39, adult   | Diagnosis     | ICD-9-CM  |
| V85.30 | Body Mass Index 30.0-30.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.31 | Body Mass Index 31.0-31.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.32 | Body Mass Index 32.0-32.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.33 | Body Mass Index 33.0-33.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.34 | Body Mass Index 34.0-34.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.35 | Body Mass Index 35.0-35.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.36 | Body Mass Index 36.0-36.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.37 | Body Mass Index 37.0-37.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.38 | Body Mass Index 38.0-38.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.39 | Body Mass Index 39.0-39.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.4  | Body Mass Index 40 and over, adult   | Diagnosis     | ICD-9-CM  |
| V85.41 | Body Mass Index 40.0-44.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.42 | Body Mass Index 45.0-49.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.43 | Body Mass Index 50.0-59.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.44 | Body Mass Index 60.0-69.9, adult   | Diagnosis     | ICD-9-CM  |
| V85.45 | Body Mass Index 70 and over, adult   | Diagnosis     | ICD-9-CM  |
| V85.51 | Body Mass Index, pediatric, less than 5th percentile for age                     | Diagnosis     | ICD-9-CM  |
| V85.52 | Body Mass Index, pediatric, 5th percentile to less than 85th percentile for age  | Diagnosis     | ICD-9-CM  |
| V85.53 | Body Mass Index, pediatric, 85th percentile to less than 95th percentile for age | Diagnosis     | ICD-9-CM  |
| V85.54 | Body Mass Index, pediatric, greater than or equal to 95th percentile for age     | Diagnosis     | ICD-9-CM  |
| Z68.1  | Body mass index [BMI] 19.9 or less, adult  | Diagnosis     | ICD-10-CM |
| Z68.2  | BODY MASS INDEX BMI 20-29 ADULT  | Diagnosis     | ICD-10-CM |
| Z68.20 | Body mass index [BMI] 20.0-20.9, adult   | Diagnosis     | ICD-10-CM |
| Z68.21 | Body mass index [BMI] 21.0-21.9, adult   | Diagnosis     | ICD-10-CM |
| Z68.22 | Body mass index [BMI] 22.0-22.9, adult   | Diagnosis     | ICD-10-CM |
| Z68.23 | Body mass index [BMI] 23.0-23.9, adult   | Diagnosis     | ICD-10-CM |
| Z68.24 | Body mass index [BMI] 24.0-24.9, adult   | 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 |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code   | Description   | Code Category          | Code Type            |  |  |
|--|---|------------------------|----------------------|--|--|
| 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            |  |  |
| 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            |  |  |
| Z68.51   | Body mass index [BMI] pediatric, less than 5th percentile for age     | Diagnosis              | ICD-10-CM            |  |  |
| Z68.52   | Body mass index [BMI] pediatric, 5th percentile to less than 85th     | Diagnosis              | ICD-10-CM            |  |  |
|  | percentile for age  | .0                     |                      |  |  |
| Z68.53   | Body mass index [BMI] pediatric, 85th percentile to less than 95th    | Diagnosis              | ICD-10-CM            |  |  |
|  | percentile for age  | o .                    |                      |  |  |
| Z68.54   | Body mass index [BMI] pediatric, 95th percentile for age to less than | Diagnosis              | ICD-10-CM            |  |  |
|  | 120% of the 95th percentile for age                                   | J                      |                      |  |  |
| Z68.55   | BMI PED 120% TO < 140% OF 95TH PERCNTL FOR AGE                        | Diagnosis              | ICD-10-CM            |  |  |
| Z68.56   | BMI PED >/= TO 140% OF THE 95TH PERCNTL FOR AGE                       | Diagnosis              | ICD-10-CM            |  |  |
| Diagnosis Codes that Indicates a Range of BMI that Classifies as Obesity |   |                        |                      |  |  |
| V85.3  | Body Mass Index between 30-39, adult                                  | Diagnosis              | ICD-9-CM             |  |  |
| V85.30   | Body Mass Index 30.0-30.9, adult                                      | Diagnosis              | ICD-9-CM             |  |  |
| V85.31   | Body Mass Index 31.0-31.9, adult                                      | Diagnosis              | ICD-9-CM             |  |  |
| V85.32   | Body Mass Index 32.0-32.9, adult                                      | Diagnosis              | ICD-9-CM             |  |  |
| V85.33   | Body Mass Index 33.0-33.9, adult                                      | Diagnosis              | ICD-9-CM             |  |  |
| V85.34   | Body Mass Index 34.0-34.9, adult                                      | Diagnosis              | ICD-9-CM             |  |  |
| V85.35   | Body Mass Index 35.0-35.9, adult                                      | Diagnosis              | ICD-9-CM             |  |  |
| V85.36   | Body Mass Index 36.0-36.9, adult                                      | Diagnosis              | ICD-9-CM             |  |  |
| V85.37   | Body Mass Index 37.0-37.9, adult                                      | Diagnosis              | ICD-9-CM             |  |  |
| V85.38   | Body Mass Index 38.0-38.9, adult                                      | Diagnosis              | ICD-9-CM             |  |  |
| V85.39   | Body Mass Index 39.0-39.9, adult                                      | Diagnosis              | ICD-9-CM             |  |  |
|  | Body Mass Index 40 and over, adult                                    | Diagnosis              | ICD-9-CM             |  |  |
|  | body ivides 40 and over, addit  |                        |                      |  |  |
| V85.4  | Body Mass Index 40.0-44.9, adult                                      | Diagnosis              | ICD-9-CM             |  |  |
| V85.4<br>V85.41  | ·   | •                      | ICD-9-CM<br>ICD-9-CM |  |  |
| V85.4<br>V85.41<br>V85.42  | Body Mass Index 40.0-44.9, adult                                      | Diagnosis              |                      |  |  |
| V85.4<br>V85.41<br>V85.42<br>V85.43<br>V85.44                            | Body Mass Index 40.0-44.9, adult<br>Body Mass Index 45.0-49.9, adult  | Diagnosis<br>Diagnosis | ICD-9-CM             |  |  |

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Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

| Code  | Description   | Code Category | Code Type |  |  |
|---|---|---------------|-----------|--|--|
| V85.54  | Body Mass Index, pediatric, greater than or equal to 95th percentile  | Diagnosis     | ICD-9-CM  |  |  |
|   | for age   |               |           |  |  |
| 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 |  |  |
| 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 |  |  |
| Z68.54  | Body mass index [BMI] pediatric, 95th percentile for age to less than | Diagnosis     | ICD-10-CM |  |  |
|   | 120% of the 95th percentile for age                                   | J             |           |  |  |
| Z68.55  | BMI PED 120% TO < 140% OF 95TH PERCNTL FOR AGE                        | Diagnosis     | ICD-10-CM |  |  |
| Z68.56  | BMI PED >/= TO 140% OF THE 95TH PERCNTL FOR AGE                       | Diagnosis     | ICD-10-CM |  |  |
| Diagnosis Codes that Indicates a Range of BMI that Classifies as Overweight |   |               |           |  |  |
| V85.2   | Body Mass Index between 25-29, adult                                  | Diagnosis     | ICD-9-CM  |  |  |
| V85.21  | Body Mass Index 25.0-25.9, adult                                      | Diagnosis     | ICD-9-CM  |  |  |
| V85.22  | Body Mass Index 26.0-26.9, adult                                      | Diagnosis     | ICD-9-CM  |  |  |
| V85.23  | Body Mass Index 27.0-27.9, adult                                      | Diagnosis     | ICD-9-CM  |  |  |
| V85.24  | Body Mass Index 28.0-28.9, adult                                      | Diagnosis     | ICD-9-CM  |  |  |
| V85.25  | Body Mass Index 29.0-29.9, adult                                      | Diagnosis     | ICD-9-CM  |  |  |
| V85.53  | Body Mass Index, pediatric, 85th percentile to less than 95th         | Diagnosis     | ICD-9-CM  |  |  |
|   | percentile for age  | · ·           |           |  |  |
| 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 |  |  |
| Z68.53  | Body mass index [BMI] pediatric, 85th percentile to less than 95th    | Diagnosis     | ICD-10-CM |  |  |
|   | percentile for age  | - 0 - 2.0     |           |  |  |
|   | b   |               |           |  |  |

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

| Generic Name   | Brand Name               |
|--|--------------------------|
| Obesity  |                          |
| amino acids/multivit-minerals/dietary supplement/protein sup | Optifast 70              |
| benzphetamine  |                          |
| benzphetamine HCl  | Didrex                   |
| benzphetamine HCl  | Regimex                  |
| benzphetamine HCl  | benzphetamine            |
| carboxymethylcellulose/citric acid                           | Plenity                  |
| carboxymethylcellulose/citric acid                           | Plenity (Welcome Kit)    |
| diethylpropion HCl   | diethylpropion           |
| liraglutide  | Saxenda                  |
| lorcaserin HCl   | Belviq                   |
| lorcaserin HCl   | Belviq XR                |
| naltrexone HCI/bupropion HCI                                 | Contrave                 |
| orlistat   | Alli                     |
| orlistat   | Xenical                  |
| orlistat   | orlistat                 |
| phendimetrazine tartrate                                     | Bontril PDM              |
| phendimetrazine tartrate                                     | Bontril SR               |
| phendimetrazine tartrate                                     | Bontril Slow-Release     |
| phendimetrazine tartrate                                     | phendimetrazine tartrate |
| phentermine HCl  | Adipex-P                 |
| phentermine HCl  | Lomaira                  |
| phentermine HCl  | Suprenza                 |
| phentermine HCl  | phentermine              |
| phentermine HCI/topiramate                                   | Qsymia                   |
| resveratrol/chromium pico/green tea/EGCG/caffeine/digestive3 | Resveratrol Diet         |
| semaglutide  | Wegovy                   |
| setmelanotide acetate  | Imcivree                 |
| sibutramine HCl m-hydrate                                    | Meridia                  |
| tirzepatide  | Zepbound                 |
| Smoking  |                          |
| nicotine   | NTS Step 1               |
| nicotine   | Nicoderm CQ              |
| nicotine   | Nicotrol                 |
|  |                          |
| nicotine   | Nicotrol NS              |

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

| Generic Name             | Brand Name                   |
|--------------------------|------------------------------|
| nicotine polacrilex      | Commit                       |
| nicotine polacrilex      | Nicorelief                   |
| nicotine polacrilex      | Nicorette                    |
| nicotine polacrilex      | Quit 2                       |
| nicotine polacrilex      | Quit 4                       |
| nicotine polacrilex      | Stop Smoking Aid             |
| nicotine polacrilex      | Thrive Nicotine              |
| nicotine polacrilex      | nicotine (polacrilex)        |
| smoking deterrent filter | One Step At A Time           |
| varenicline tartrate     | Chantix                      |
| varenicline tartrate     | Chantix Continuing Month Box |
| varenicline tartrate     | Chantix Continuing Month Pak |
| varenicline tartrate     | Chantix Starting Month Box   |
| varenicline tartrate     | Chantix Starting Month Pak   |
| varenicline tartrate     | varenicline                  |

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| Kequest | Req | uest |  |
|---------|-----|------|--|
|---------|-----|------|--|

| Code       | Description  | Code Category | Code Type  |
|------------|--|---------------|------------|
|            | Obesity Procedure Codes  |               | , , ,      |
| 0155T      | Laparoscopy, surgical; implantation or replacement of gastric stimulation                                    | Procedure     | CPT-3      |
|            | electrodes, lesser curvature (ie, morbid obesity)  |               |            |
| 0156T      | Laparoscopy, surgical; revision or removal of gastric stimulation electrodes, lesser                         | Procedure     | CPT-3      |
|            | curvature (ie, morbid obesity)   |               |            |
| 0157T      | Laparotomy, implantation or replacement of gastric stimulation electrodes, lesser                            | Procedure     | CPT-3      |
|            | curvature (ie, morbid obesity)   |               |            |
| 0158T      | Laparotomy, revision or removal of gastric stimulation electrodes, lesser curvature                          | Procedure     | CPT-3      |
|            | (ie, morbid obesity)   |               |            |
| 0162T      | Electronic analysis and programming, reprogramming of gastric neurostimulator                                | Procedure     | CPT-3      |
|            | (ie, morbid obesity)   |               |            |
| 0312T      | Vagus nerve blocking therapy (morbid obesity); laparoscopic implantation of                                  | Procedure     | CPT-3      |
|            | neurostimulator electrode array, anterior and posterior vagal trunks adjacent to                             |               |            |
|            | esophagogastric junction (EGJ), with implantation of pulse generator, includes                               |               |            |
| 0242T      | programming  | Dunganduun    | CDT 2      |
| 0313T      | Vagus nerve blocking therapy (morbid obesity); laparoscopic revision or                                      | Procedure     | CPT-3      |
|            | replacement of vagal trunk neurostimulator electrode array, including connection to existing pulse generator |               |            |
| 0314T      | Vagus nerve blocking therapy (morbid obesity); laparoscopic removal of vagal                                 | Procedure     | CPT-3      |
| 03141      | trunk neurostimulator electrode array and pulse generator  | Trocedure     | Cl 1-5     |
| 0315T      | Vagus nerve blocking therapy (morbid obesity); removal of pulse generator                                    | Procedure     | CPT-3      |
| 0316T      | Vagus nerve blocking therapy (morbid obesity); replacement of pulse generator                                | Procedure     | CPT-3      |
| 0317T      | Vagus nerve blocking therapy (morbid obesity); neurostimulator pulse generator                               | Procedure     | CPT-3      |
|            | electronic analysis, includes reprogramming when performed   |               |            |
| 0813T      | Esophagogastroduodenoscopy, flexible, transoral, with volume adjustment of                                   | Procedure     | CPT-3      |
|            | intragastric bariatric balloon   |               |            |
| 0D16079    | Bypass Stomach to Duodenum with Autologous Tissue Substitute, Open Approach                                  | Procedure     | ICD-10-PCS |
| 0D1607A    | Bypass Stomach to Jejunum with Autologous Tissue Substitute, Open Approach                                   | Procedure     | ICD-10-PCS |
| 0D1607B    | Bypass Stomach to Ileum with Autologous Tissue Substitute, Open Approach                                     | Procedure     | ICD-10-PCS |
| 0D1607L    | Bypass Stomach to Transverse Colon with Autologous Tissue Substitute, Open                                   | Procedure     | ICD-10-PCS |
|            | Approach   |               |            |
| 0D160J9    | Bypass Stomach to Duodenum with Synthetic Substitute, Open Approach  | Procedure     | ICD-10-PCS |
| 0D160JA    | Bypass Stomach to Jejunum with Synthetic Substitute, Open Approach   | Procedure     | ICD-10-PCS |
| OD160JB    | Bypass Stomach to Ileum with Synthetic Substitute, Open Approach   | Procedure     | ICD-10-PCS |
| OD160JL    | Bypass Stomach to Transverse Colon with Synthetic Substitute, Open Approach                                  | Procedure     | ICD-10-PCS |
| 0D160K9    | Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Open  | Procedure     | ICD-10-PCS |
| 0046044    | Approach   |               | 100 10 000 |
| 0D160KA    | Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Open   | Procedure     | ICD-10-PCS |
| 0D160VD    | Approach  Punass Stamach to Houm with Nonautologous Tissue Substitute Open Approach                          | Drocodura     | ICD 10 DCS |
| 0D160KB    | Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Open Approach                                  | Procedure     | ICD-10-PCS |
| 0D160KL    | Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Open                                | Procedure     | ICD-10-PCS |
| 0D160Z9    | Approach Bypass Stomach to Duodenum, Open Approach   | Procedure     | ICD-10-PCS |
| 0D160Z9    | Bypass Stomach to Jejunum, Open Approach   | Procedure     | ICD-10-PCS |
| JD 100LI ( | = , pass standard to rejuriarily open ripproduct   |               | .55 10 105 |

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| Code    | Description   | Code Category | Code Type  |
|---------|---|---------------|------------|
| 0D160ZB | Bypass Stomach to Ileum, Open Approach  | Procedure     | ICD-10-PCS |
| 0D160ZL | Bypass Stomach to Transverse Colon, Open Approach   | Procedure     | ICD-10-PCS |
| 0D16479 | Bypass Stomach to Duodenum with Autologous Tissue Substitute, Percutaneous  | Procedure     | ICD-10-PCS |
|         | Endoscopic Approach   |               |            |
| 0D1647A | Bypass Stomach to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach                         | Procedure     | ICD-10-PCS |
| 0D1647B | Bypass Stomach to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach                           | Procedure     | ICD-10-PCS |
| 0D1647L | Bypass Stomach to Transverse Colon with Autologous Tissue Substitute,<br>Percutaneous Endoscopic Approach             | Procedure     | ICD-10-PCS |
| 0D164J9 | Bypass Stomach to Duodenum with Synthetic Substitute, Percutaneous<br>Endoscopic Approach                             | Procedure     | ICD-10-PCS |
| OD164JA | Bypass Stomach to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach                                 | Procedure     | ICD-10-PCS |
| OD164JB | Bypass Stomach to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach                                   | Procedure     | ICD-10-PCS |
| OD164JL | Bypass Stomach to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach                        | Procedure     | ICD-10-PCS |
| 0D164K9 | Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach                     | Procedure     | ICD-10-PCS |
| 0D164KA | Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach                      | Procedure     | ICD-10-PCS |
| 0D164KB | Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach                        | Procedure     | ICD-10-PCS |
| OD164KL | Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach             | Procedure     | ICD-10-PCS |
| 0D164Z9 | Bypass Stomach to Duodenum, Percutaneous Endoscopic Approach  | Procedure     | ICD-10-PCS |
| 0D164ZA | Bypass Stomach to Jejunum, Percutaneous Endoscopic Approach   | Procedure     | ICD-10-PCS |
| 0D164ZB | Bypass Stomach to Ileum, Percutaneous Endoscopic Approach   | Procedure     | ICD-10-PCS |
| 0D164ZL | Bypass Stomach to Transverse Colon, Percutaneous Endoscopic Approach  | Procedure     | ICD-10-PCS |
| 0D16879 | Bypass Stomach to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic            | Procedure     | ICD-10-PCS |
| 0D1687A | Bypass Stomach to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic             | Procedure     | ICD-10-PCS |
| 0D1687B | Bypass Stomach to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic               | Procedure     | ICD-10-PCS |
| 0D1687L | Bypass Stomach to Transverse Colon with Autologous Tissue Substitute, Via<br>Natural or Artificial Opening Endoscopic | Procedure     | ICD-10-PCS |
| 0D168J9 | Bypass Stomach to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic                    | Procedure     | ICD-10-PCS |
| 0D168JA | Bypass Stomach to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic                     | Procedure     | ICD-10-PCS |
| 0D168JB | Bypass Stomach to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic                       | Procedure     | ICD-10-PCS |

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| Code               | Description  | Code Category          | Code Type                |
|--------------------|--|------------------------|--------------------------|
| 0D168JL            | Bypass Stomach to Transverse Colon with Synthetic Substitute, Via Natural or   | Procedure              | ICD-10-PCS               |
|                    | Artificial Opening Endoscopic  |                        |                          |
| 0D168K9            | Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Via Natural   | Procedure              | ICD-10-PCS               |
|                    | or Artificial Opening Endoscopic   |                        |                          |
| 0D168KA            | Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Via Natural or   | Procedure              | ICD-10-PCS               |
|                    | Artificial Opening Endoscopic  |                        |                          |
| 0D168KB            | Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Via Natural or   | Procedure              | ICD-10-PCS               |
|                    | Artificial Opening Endoscopic  |                        |                          |
| 0D168KL            | Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Via   | Procedure              | ICD-10-PCS               |
|                    | Natural or Artificial Opening Endoscopic   |                        |                          |
| 0D168Z9            | Bypass Stomach to Duodenum, Via Natural or Artificial Opening Endoscopic   | Procedure              | ICD-10-PCS               |
| 0D168ZA            | Bypass Stomach to Jejunum, Via Natural or Artificial Opening Endoscopic  | Procedure              | ICD-10-PCS               |
| 0D168ZB            | Bypass Stomach to Ileum, Via Natural or Artificial Opening Endoscopic  | Procedure              | ICD-10-PCS               |
| 0D168ZL            | Bypass Stomach to Transverse Colon, Via Natural or Artificial Opening Endoscopic   | Procedure              | ICD-10-PCS               |
|                    |  |                        |                          |
| 0D19079            | Bypass Duodenum to Duodenum with Autologous Tissue Substitute, Open  | Procedure              | ICD-10-PCS               |
| 0040074            | Approach   | Dunnandous             | ICD 40 DCC               |
| 0D1907A            | Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Open Approach  |                        | ICD-10-PCS               |
| 0D1907B            | Bypass Duodenum to Ileum with Autologous Tissue Substitute, Open Approach  | Procedure              | ICD-10-PCS               |
| 0D190J9            | Bypass Duodenum to Duodenum with Synthetic Substitute, Open Approach   | Procedure              | ICD-10-PCS               |
| 0D190JA            | Bypass Duodenum to Jejunum with Synthetic Substitute, Open Approach  | Procedure              | ICD-10-PCS               |
| 0D190JB<br>0D190K9 | Bypass Duodenum to Ileum with Synthetic Substitute, Open Approach Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Open | Procedure<br>Procedure | ICD-10-PCS<br>ICD-10-PCS |
| 0019089            | Approach   | Procedure              | ICD-10-PC3               |
| 0D190KA            | Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Open  | Procedure              | ICD-10-PCS               |
| ODISORA            | Approach   | riocedure              | ICD-10-FC3               |
| 0D190KB            | Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Open  | Procedure              | ICD-10-PCS               |
| 05130115           | Approach   | rroccaare              | 105 10 1 05              |
| 0D190Z9            | Bypass Duodenum to Duodenum, Open Approach   | Procedure              | ICD-10-PCS               |
| 0D190ZA            | Bypass Duodenum to Jejunum, Open Approach  | Procedure              | ICD-10-PCS               |
| 0D190ZB            | Bypass Duodenum to Ileum, Open Approach  | Procedure              | ICD-10-PCS               |
| 0D19479            | Bypass Duodenum to Duodenum with Autologous Tissue Substitute,   | Procedure              | ICD-10-PCS               |
|                    | Percutaneous Endoscopic Approach   |                        |                          |
| 0D1947A            | Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Percutaneous   | Procedure              | ICD-10-PCS               |
|                    | Endoscopic Approach  |                        |                          |
| 0D1947B            | Bypass Duodenum to Ileum with Autologous Tissue Substitute, Percutaneous   | Procedure              | ICD-10-PCS               |
|                    | Endoscopic Approach  |                        |                          |
| 0D194J9            | Bypass Duodenum to Duodenum with Synthetic Substitute, Percutaneous  | Procedure              | ICD-10-PCS               |
|                    | Endoscopic Approach  |                        |                          |
| 0D194JA            | Bypass Duodenum to Jejunum with Synthetic Substitute, Percutaneous   | Procedure              | ICD-10-PCS               |
|                    | Endoscopic Approach  |                        |                          |
| 0D194JB            | Bypass Duodenum to Ileum with Synthetic Substitute, Percutaneous Endoscopic  | Procedure              | ICD-10-PCS               |
|                    | Approach   |                        |                          |
|                    |  |                        |                          |

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Request Code Description **Code Category** Code Type 0D194K9 Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Procedure ICD-10-PCS Percutaneous Endoscopic Approach 0D194KA Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Procedure ICD-10-PCS Percutaneous Endoscopic Approach 0D194KB Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Percutaneous Procedure ICD-10-PCS **Endoscopic Approach** 0D194Z9 Bypass Duodenum to Duodenum, Percutaneous Endoscopic Approach Procedure ICD-10-PCS 0D194ZA Bypass Duodenum to Jejunum, Percutaneous Endoscopic Approach Procedure ICD-10-PCS 0D194ZB Bypass Duodenum to Ileum, Percutaneous Endoscopic Approach Procedure ICD-10-PCS 0D19879 Bypass Duodenum to Duodenum with Autologous Tissue Substitute, Via Natural Procedure ICD-10-PCS or Artificial Opening Endoscopic 0D1987A ICD-10-PCS Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Via Natural or Procedure Artificial Opening Endoscopic ICD-10-PCS 0D1987B Bypass Duodenum to Ileum with Autologous Tissue Substitute, Via Natural or Procedure Artificial Opening Endoscopic 0D198J9 Bypass Duodenum to Duodenum with Synthetic Substitute, Via Natural or ICD-10-PCS Procedure **Artificial Opening Endoscopic** 0D198JA Bypass Duodenum to Jejunum with Synthetic Substitute, Via Natural or Artificial ICD-10-PCS Procedure Opening Endoscopic 0D198JB Bypass Duodenum to Ileum with Synthetic Substitute, Via Natural or Artificial Procedure ICD-10-PCS Opening Endoscopic 0D198K9 Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Via Procedure ICD-10-PCS Natural or Artificial Opening Endoscopic 0D198KA Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Via Natural Procedure ICD-10-PCS or Artificial Opening Endoscopic 0D198KB Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Via Natural or Procedure ICD-10-PCS Artificial Opening Endoscopic 0D198Z9 Bypass Duodenum to Duodenum, Via Natural or Artificial Opening Endoscopic Procedure ICD-10-PCS 0D198ZA Bypass Duodenum to Jejunum, Via Natural or Artificial Opening Endoscopic Procedure ICD-10-PCS 0D198ZB Bypass Duodenum to Ileum, Via Natural or Artificial Opening Endoscopic Procedure ICD-10-PCS 0D1A07A Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Open Approach Procedure ICD-10-PCS 0D1A07B Bypass Jejunum to Ileum with Autologous Tissue Substitute, Open Approach Procedure ICD-10-PCS 0D1A0JA Bypass Jejunum to Jejunum with Synthetic Substitute, Open Approach ICD-10-PCS Procedure OD1A0JB Bypass Jejunum to Ileum with Synthetic Substitute, Open Approach Procedure ICD-10-PCS 0D1A0KA Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Open Procedure ICD-10-PCS **Approach** 0D1A0KB Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Open Approach Procedure ICD-10-PCS 0D1A0ZA Bypass Jejunum to Jejunum, Open Approach Procedure ICD-10-PCS OD1A0ZB Bypass Jejunum to Ileum, Open Approach Procedure ICD-10-PCS Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Percutaneous 0D1A47A Procedure ICD-10-PCS **Endoscopic Approach** 0D1A47B Bypass Jejunum to Ileum with Autologous Tissue Substitute, Percutaneous Procedure ICD-10-PCS **Endoscopic Approach** 

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Request Code Description **Code Category** Code Type 0D1A4JA Bypass Jejunum to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Procedure ICD-10-PCS Approach 0D1A4JB Bypass Jejunum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Procedure ICD-10-PCS Approach 0D1A4KA Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Percutaneous Procedure ICD-10-PCS Endoscopic Approach 0D1A4KB Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Percutaneous ICD-10-PCS Procedure **Endoscopic Approach** 0D1A4ZA Bypass Jejunum to Jejunum, Percutaneous Endoscopic Approach Procedure ICD-10-PCS 0D1A4ZB Bypass Jejunum to Ileum, Percutaneous Endoscopic Approach Procedure ICD-10-PCS ICD-10-PCS 0D1A87A Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Via Natural or Procedure Artificial Opening Endoscopic 0D1A87B Bypass Jejunum to Ileum with Autologous Tissue Substitute, Via Natural or Procedure ICD-10-PCS Artificial Opening Endoscopic 0D1A8JA Bypass Jejunum to Jejunum with Synthetic Substitute, Via Natural or Artificial Procedure ICD-10-PCS Opening Endoscopic OD1A8JB Bypass Jejunum to Ileum with Synthetic Substitute, Via Natural or Artificial Procedure ICD-10-PCS Opening Endoscopic 0D1A8KA Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Via Natural or Procedure ICD-10-PCS Artificial Opening Endoscopic 0D1A8KB Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Via Natural or ICD-10-PCS Procedure Artificial Opening Endoscopic 0D1A8ZA Bypass Jejunum to Jejunum, Via Natural or Artificial Opening Endoscopic Procedure ICD-10-PCS 0D1A8ZB Bypass Jejunum to Ileum, Via Natural or Artificial Opening Endoscopic Procedure ICD-10-PCS 0D1A8ZH Bypass Jejunum to Cecum, Via Natural or Artificial Opening Endoscopic Procedure ICD-10-PCS 0D1B07B Bypass Ileum to Ileum with Autologous Tissue Substitute, Open Approach Procedure ICD-10-PCS OD1B0JB Bypass Ileum to Ileum with Synthetic Substitute, Open Approach Procedure ICD-10-PCS OD1B0KB Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Open Approach Procedure ICD-10-PCS OD1B0ZB Bypass Ileum to Ileum, Open Approach Procedure ICD-10-PCS 0D1B47B Bypass Ileum to Ileum with Autologous Tissue Substitute, Percutaneous Procedure ICD-10-PCS **Endoscopic Approach** OD1B4JB Bypass Ileum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Procedure ICD-10-PCS Approach OD1B4KB Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Percutaneous Procedure ICD-10-PCS **Endoscopic Approach** OD1B4ZB Bypass Ileum to Ileum, Percutaneous Endoscopic Approach Procedure ICD-10-PCS 0D1B87B Bypass Ileum to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Procedure ICD-10-PCS Opening Endoscopic OD1B8JB Bypass Ileum to Ileum with Synthetic Substitute, Via Natural or Artificial Opening ICD-10-PCS Procedure Endoscopic OD1B8KB Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Via Natural or Procedure ICD-10-PCS **Artificial Opening Endoscopic** OD1B8ZB Bypass Ileum to Ileum, Via Natural or Artificial Opening Endoscopic Procedure ICD-10-PCS 0D1B8ZH Bypass Ileum to Cecum, Via Natural or Artificial Opening Endoscopic Procedure ICD-10-PCS

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| Request |  |               |            |
|---------|--|---------------|------------|
| Code    | Description  | Code Category | Code Type  |
| 0DB60Z3 | Excision of Stomach, Open Approach, Vertical   | Procedure     | ICD-10-PCS |
| ODB60ZZ | Excision of Stomach, Open Approach   | Procedure     | ICD-10-PCS |
| 0DB63Z3 | Excision of Stomach, Percutaneous Approach, Vertical                                 | Procedure     | ICD-10-PCS |
| ODB63ZZ | Excision of Stomach, Percutaneous Approach   | Procedure     | ICD-10-PCS |
| 0DB67Z3 | Excision of Stomach, Via Natural or Artificial Opening, Vertical                     | Procedure     | ICD-10-PCS |
| ODB67ZZ | Excision of Stomach, Via Natural or Artificial Opening                               | Procedure     | ICD-10-PCS |
| 0DB68Z3 | Excision of Stomach, Via Natural or Artificial Opening Endoscopic, Vertical          | Procedure     | ICD-10-PCS |
| ODB80ZZ | Excision of Small Intestine, Open Approach   | Procedure     | ICD-10-PCS |
| ODB90ZZ | Excision of Duodenum, Open Approach  | Procedure     | ICD-10-PCS |
| ODBB0ZZ | Excision of Ileum, Open Approach   | Procedure     | ICD-10-PCS |
| 0DQ64ZZ | Repair Stomach, Percutaneous Endoscopic Approach                                     | Procedure     | ICD-10-PCS |
| 0DV64CZ | Restriction of Stomach with Extraluminal Device, Percutaneous Endoscopic             | Procedure     | ICD-10-PCS |
|         | Approach   |               |            |
| 0F190Z3 | Bypass Common Bile Duct to Duodenum, Open Approach                                   | Procedure     | ICD-10-PCS |
| 43.89   | Open and other partial gastrectomy   | Procedure     | ICD-9-CM   |
| 43290   | Esophagogastroduodenoscopy, flexible, transoral; with deployment of intragastric     | Procedure     | CPT-4      |
|         | bariatric balloon  |               |            |
| 43291   | Esophagogastroduodenoscopy, flexible, transoral; with removal of intragastric        | Procedure     | CPT-4      |
|         | bariatric balloon(s)   |               |            |
| 43644   | Laparoscopy, surgical, gastric restrictive procedure; with gastric bypass and Roux-  | Procedure     | CPT-4      |
|         | en-Y gastroenterostomy (roux limb 150 cm or less)                                    |               |            |
| 43645   | Laparoscopy, surgical, gastric restrictive procedure; with gastric bypass and small  | Procedure     | CPT-4      |
|         | intestine reconstruction to limit absorption   |               |            |
| 43770   | Laparoscopy, surgical, gastric restrictive procedure; placement of adjustable        | Procedure     | CPT-4      |
|         | gastric restrictive device (eg, gastric band and subcutaneous port components)       |               |            |
| 43771   | Laparoscopy, surgical, gastric restrictive procedure; revision of adjustable gastric | Procedure     | CPT-4      |
|         | restrictive device component only  |               |            |
| 43772   | Laparoscopy, surgical, gastric restrictive procedure; removal of adjustable gastric  | Procedure     | CPT-4      |
|         | restrictive device component only  |               |            |
| 43773   | Laparoscopy, surgical, gastric restrictive procedure; removal and replacement of     | Procedure     | CPT-4      |
|         | adjustable gastric restrictive device component only                                 |               |            |
| 43774   | Laparoscopy, surgical, gastric restrictive procedure; removal of adjustable gastric  | Procedure     | CPT-4      |
|         | restrictive device and subcutaneous port components                                  |               |            |
| 43775   | Laparoscopy, surgical, gastric restrictive procedure; longitudinal gastrectomy (ie,  | Procedure     | CPT-4      |
|         | sleeve gastrectomy)  |               |            |
| 43842   | Gastric restrictive procedure, without gastric bypass, for morbid obesity; vertical- | Procedure     | CPT-4      |
|         | banded gastroplasty  |               |            |
| 43843   | Gastric restrictive procedure, without gastric bypass, for morbid obesity; other     | Procedure     | CPT-4      |
|         | than vertical-banded gastroplasty  |               |            |
| 43845   | Gastric restrictive procedure with partial gastrectomy, pylorus-preserving           | Procedure     | CPT-4      |
|         | duodenoileostomy and ileoileostomy (50 to 100 cm common channel) to limit            |               |            |
|         | absorption (biliopancreatic diversion with duodenal switch)                          |               |            |
| 43846   | Gastric restrictive procedure, with gastric bypass for morbid obesity; with short    | Procedure     | CPT-4      |
|         | limb (150 cm or less) Roux-en-Y gastroenterostomy                                    |               |            |
|         |  |               |            |

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| Code        | Description  | Code Category | Code Type |
|-------------|--|---------------|-----------|
| 43847       | Gastric restrictive procedure, with gastric bypass for morbid obesity; with small  | Procedure     | CPT-4     |
|             | intestine reconstruction to limit absorption   |               |           |
| 43848       | Revision, open, of gastric restrictive procedure for morbid obesity, other than  | Procedure     | CPT-4     |
|             | adjustable gastric restrictive device (separate procedure)   |               |           |
| 43886       | Gastric restrictive procedure, open; revision of subcutaneous port component   | Procedure     | CPT-4     |
|             | only   |               |           |
| 43887       | Gastric restrictive procedure, open; removal of subcutaneous port component only   | Procedure     | CPT-4     |
| 43888       | Gastric restrictive procedure, open; removal and replacement of subcutaneous port component only   | Procedure     | CPT-4     |
| 44.38       | Laparoscopic gastroenterostomy   | Procedure     | ICD-9-CM  |
| 44.39       | Other gastroenterostomy without gastrectomy  | Procedure     | ICD-9-CM  |
| 44.68       | Laparoscopic gastroplasty  | Procedure     | ICD-9-CM  |
| 44.95       | Laparoscopic gastric restrictive procedure   | Procedure     | ICD-9-CM  |
| 45.51       | Isolation of segment of small intestine  | Procedure     | ICD-9-CM  |
| 45.91       | Small-to-small intestinal anastomosis  | Procedure     | ICD-9-CM  |
| 50090582400 |  | Procedure     | NDC       |
|             | setmelanotide acetate  | Procedure     | NDC       |
| 797         | Anesthesia for intraperitoneal procedures in upper abdomen including   | Procedure     | CPT-4     |
|             | laparoscopy; gastric restrictive procedure for morbid obesity  |               |           |
| G0447       | Face-to-face behavioral counseling for obesity, 15 minutes   | Procedure     | HCPCS     |
| G0473       | Face-to-face behavioral counseling for obesity, group (2-10), 30 minutes   | Procedure     | HCPCS     |
| S2085       | Laparoscopy, gastric restrictive procedure, with gastric bypass for morbid obesity,  | Procedure     | HCPCS     |
|             | with short limb (less than 100 cm) roux-en-y gastroenterostomy   |               |           |
|             | Smoking Procedure Codes  |               |           |
| 0002F       | Tobacco use, smoking, assessed   | Procedure     | CPT-2     |
| 0003F       | Tobacco use, non-smoking, assessed   | Procedure     | CPT-2     |
| 0004F       | Tobacco use cessation intervention, counseling   | Procedure     | CPT-2     |
| 1000F       | Tobacco use assessed (CAD, CAP, COPD, PV) (DM)   | Procedure     | CPT-2     |
| 1001F       | Tobacco use, non-smoking, assessed   | Procedure     | CPT-2     |
| 1032F       | Current tobacco smoker or currently exposed to secondhand smoke (Asthma)   | Procedure     | CPT-2     |
| 1034F       | Current tobacco smoker (CAD, CAP, COPD, PV) (DM)   | Procedure     | CPT-2     |
| 1035F       | Current smokeless tobacco user (eg, chew, snuff) (PV)  | Procedure     | CPT-2     |
| 4000F       | Tobacco use cessation intervention, counseling (COPD, CAP, CAD, Asthma) (DM) (PV)  | Procedure     | CPT-2     |
| 4001F       | Tobacco use cessation intervention, pharmacologic therapy (COPD, CAD, CAP, PV, Asthma) (DM) (PV)   | Procedure     | CPT-2     |
| 4004F       | Patient screened for tobacco use and received tobacco cessation intervention (counseling, pharmacotherapy, or both), if identified as a tobacco user (PV, CAD) | Procedure     | CPT-2     |
| 83887       | Nicotine   | Procedure     | CPT-4     |
| 99406       | Smoking and tobacco use cessation counseling visit; intermediate, greater than 3 minutes up to 10 minutes  | Procedure     | CPT-4     |
| 99407       | Smoking and tobacco use cessation counseling visit; intensive, greater than 10 minutes   | Procedure     | CPT-4     |

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| Code  | Description  | Code Category | Code Type |
|-------|--|---------------|-----------|
| C9801 | Smoking and tobacco cessation counseling visit for the asymptomatic patient;   | Procedure     | HCPCS     |
|       | intermediate, greater than 3 minutes, up to 10 minutes   |               |           |
| C9802 | Smoking and tobacco cessation counseling visit for the asymptomatic patient;   | Procedure     | HCPCS     |
|       | intensive, greater than 10 minutes   |               |           |
| D1320 | tobacco counseling for the control and prevention of oral disease  | Procedure     | HCPCS     |
| G0030 | Patient screened for tobacco use and received tobacco cessation intervention   | Procedure     | HCPCS     |
|       | during the measurement period or in the 6 months prior to the measurement  |               |           |
|       | period (counseling, pharmacotherapy, or both), if identified as a tobacco user   |               |           |
| G0375 | Smoking and tobacco use cessation counseling visit; intermediate, greater than 3 minutes up to 10 minutes  | Procedure     | HCPCS     |
| G0376 | Smoking and tobacco use cessation counseling visit; intensive, greater than 10 minutes   | Procedure     | HCPCS     |
| G0436 | Smoking and tobacco cessation counseling visit for the asymptomatic patient;   | Procedure     | HCPCS     |
| C0427 | intermediate, greater than 3 minutes, up to 10 minutes   | Dunnanduun    | HCDCC     |
| G0437 | Smoking and tobacco cessation counseling visit for the asymptomatic patient; intensive, greater than 10 minutes  | Procedure     | HCPCS     |
| G6055 | Assay of nicotine  | Procedure     | HCPCS     |
| G8093 | Newly diagnosed chronic obstructive pulmonary disease (COPD) patient   | Procedure     | HCPCS     |
|       | documented to have received smoking cessation intervention, within 3 months of diagnosis   |               |           |
| G8094 | Newly diagnosed chronic obstructive pulmonary disease (COPD) patient not   | Procedure     | HCPCS     |
|       | documented to have received smoking cessation intervention, within 3 months of diagnosis   |               |           |
| G8402 | Tobacco (smoke) use cessation intervention, counseling   | Procedure     | HCPCS     |
| G8403 | Tobacco (smoke) use cessation intervention not counseled   | Procedure     | HCPCS     |
| G8453 | Tobacco use cessation intervention, counseling   | Procedure     | HCPCS     |
| G8454 | Tobacco use cessation intervention not counseled, reason not specified   | Procedure     | HCPCS     |
| G8455 | Current tobacco smoker   | Procedure     | HCPCS     |
| G8456 | Current smokeless tobacco user   | Procedure     | HCPCS     |
| G8457 | Current tobacco nonuser  | Procedure     | HCPCS     |
| G8686 | Currently a tobacco smoker or current exposure to secondhand smoke   | Procedure     | HCPCS     |
| G8688 | Currently a smokeless tobacco user (e.g., chew, snuff) and no exposure to secondhand smoke   | Procedure     | HCPCS     |
| G8689 | Tobacco use not assessed, reason not otherwise specified   | Procedure     | HCPCS     |
| G8690 | Current tobacco smoker or current exposure to secondhand smoke   | Procedure     | HCPCS     |
| G8692 | Current smokeless tobacco user (e.g., chew, snuff) and no exposure to secondhand smoke   | Procedure     | HCPCS     |
| G8693 | Tobacco use not assessed, reason not specified   | Procedure     | HCPCS     |
| G8751 | Smoking status and exposure to second hand smoke in the home not assessed,   | Procedure     | HCPCS     |
| 30/31 | reason not given   | riocedure     | TICI CS   |
| G9016 | Smoking cessation counseling, individual, in the absence of or in addition to any other evaluation and management service, per session (6-10 minutes) [demo project code only] | Procedure     | HCPCS     |
| G9275 | Documentation that patient is a current nontobacco user  | Procedure     | HCPCS     |
|       |  |               |           |

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Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Codes Used to Define Exposures in this Request

| Code           | Description   | Code Category | Code Type  |
|----------------|---|---------------|------------|
| G9276          | Documentation that patient is a current tobacco user                                | Procedure     | HCPCS      |
| G9458          | Patient documented as tobacco user and received tobacco cessation intervention      | Procedure     | HCPCS      |
|                | (must include at least one of the following: advice given to quit smoking or        |               |            |
|                | tobacco use, counseling on the benefits of quitting smoking or tobacco use,         |               |            |
|                | assistance with or referral to external smoking or tobacco cessation support        |               |            |
|                | programs, or current enrollment in smoking or tobacco use cessation program) if     |               |            |
|                | identified as a tobacco user  |               |            |
| G9460          | Tobacco assessment or tobacco cessation intervention not performed, reason not      | Procedure     | HCPCS      |
|                | given   |               |            |
| G9497          | Received instruction from the anesthesiologist or proxy prior to the day of surgery | Procedure     | HCPCS      |
| 03 137         | to abstain from smoking on the day of surgery                                       | rroccaure     | 1101 00    |
| G9644          | Patients who abstained from smoking prior to anesthesia on the day of surgery or    | Procedure     | HCPCS      |
| <b>G</b> 5044  | procedure   | Troccaure     | rici es    |
| G9645          | Patients who did not abstain from smoking prior to anesthesia on the day of         | Procedure     | HCPCS      |
| 03043          | surgery or procedure  | riocedure     | TICFCS     |
| G9792          | Most recent tobacco status is not tobacco free                                      | Procedure     | HCPCS      |
| G9902          | Patient screened for tobacco use and identified as a tobacco user                   | Procedure     | HCPCS      |
| G9902<br>G9906 | Patient identified as a tobacco user received tobacco cessation intervention        | Procedure     | HCPCS      |
| G9900          | during the measurement period or in the 6 months prior to the measurement           | riocedure     | HCFC3      |
|                |   |               |            |
| C0007          | period (counseling and/or pharmacotherapy)  | Dragodura     | HCDCC      |
| G9907          | Documentation of medical reason(s) for not providing tobacco cessation              | Procedure     | HCPCS      |
|                | intervention on the date of the encounter or within the previous 12 months (e.g.,   |               |            |
| 60000          | limited life expectancy, other medical reason)                                      | Dan and dan   | HCDCC      |
| G9908          | Patient identified as tobacco user did not receive tobacco cessation intervention   | Procedure     | HCPCS      |
|                | during the measurement period or in the 6 months prior to the measurement           |               |            |
| 60000          | period (counseling and/or pharmacotherapy)  | 5 1           | LICECC     |
| G9909          | Documentation of medical reason(s) for not providing tobacco cessation              | Procedure     | HCPCS      |
|                | intervention on the date of the encounter or within the previous 12 months if       |               |            |
|                | identified as a tobacco user (e.g., limited life expectancy, other medical reason)  |               | 100 10 000 |
| HZ80           | Medication Management / Nicotine Replacement  | Procedure     | ICD-10-PCS |
| HZ80ZZZ        | Medication Management for Substance Abuse Treatment, Nicotine Replacement           | Procedure     | ICD-10-PCS |
| HZ90           | Pharmacotherapy / Nicotine Replacement  | Procedure     | ICD-10-PCS |
| HZ90ZZZ        | Pharmacotherapy for Substance Abuse Treatment, Nicotine Replacement                 | Procedure     | ICD-10-PCS |
| M1018          | Patients with an active diagnosis or history of cancer (except basal cell and       | Procedure     | HCPCS      |
|                | squamous cell skin carcinoma), patients who are heavy tobacco smokers, lung         |               |            |
|                | cancer screening patients   |               |            |
| M1283          | Patient screened for tobacco use and identified as a tobacco user                   | Procedure     | HCPCS      |
| M1289          | Patient identified as tobacco user did not receive tobacco cessation intervention   | Procedure     | HCPCS      |
|                | during the measurement period or in the 6 months prior to the measurement           |               |            |
|                | period (counseling and/or pharmacotherapy)  |               |            |
| M1301          | Patient identified as a tobacco user received tobacco cessation intervention        | Procedure     | HCPCS      |
|                | during the measurement period or in the 6 months prior to the measurement           |               |            |
|                | period (counseling and/or pharmacotherapy)  |               |            |
|                |   |               |            |

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Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Codes Used to Define Exposures in this Request

| Request |   |               |           |
|---------|---|---------------|-----------|
| Code    | Description   | Code Category | Code Type |
| M1310   | Patient screened for tobacco use and received tobacco cessation intervention during the measurement period or in the 6 months prior to the measurement period (counseling, pharmacotherapy, or both), if identified as a tobacco user | Procedure     | HCPCS     |
| S4990   | Nicotine patches, legend  | Procedure     | HCPCS     |
| S4991   | Nicotine patches, nonlegend   | Procedure     | HCPCS     |
| S4995   | Smoking cessation gum   | Procedure     | HCPCS     |
| S9075   | Smoking cessation treatment   | Procedure     | HCPCS     |
| S9453   | Smoking cessation classes, nonphysician provider, per session   | Procedure     | HCPCS     |

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## Appendix E. Specifications Defining Parameters for this Request for Non-Race Cohorts

An execution of the Cohort Identification and Descriptive Analysis (CIDA) tool version 14.0.1 was requested to calculate rates of confounding variables found in administrative claims data over time in the Sentinel Distributed Database (SDD).

Query Period: January 1, 2010 - December 31, 2023

Coverage Requirement: Medical & Drug Coverage

**Pre-Index Enrollment Requirement:** 365 Days **Post-Index Requirement:** 0 Days

**Enrollment Gap:** 45 Days

0-17, 18-43, 44-64, and 65+ [18-43, 44-64, and 65+ for has\_vitals\_BMI, overweight\_vitals\_BMI, and

Age Groups: obesity\_vitals\_bmi cohorts]

**Stratifications:** Calendar year, Age group\*Calendar year, Sex\*Calendar year

Censor Output Categorization: Range of follow-up time specified

**Restrictions:** M/F sex

Distribution of Index-Defining Codes: None

**Envelope Macro:** Reclassify

Freeze Data: No

## Exposure/Event

|          |                 |                          |                       |                   |                  | ,                                  |                              |   |   |                    |
|----------|-----------------|--------------------------|-----------------------|-------------------|------------------|------------------------------------|------------------------------|---|---|--------------------|
| Scenario | Group           | Index Exposure/<br>Event | Cohort<br>Definition  | Washout<br>Period | Care<br>Setting  | Principal<br>Diagnosis<br>Position | Create<br>Baseline<br>Table? | End At-Risk Period at<br>Evidence of            | Minimum Post-<br>Index Required<br>Days | Age<br>Restriction |
| 1        | obesity_365     | Incident obesity         | All valid index dates | 365               | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date |   |                    |
| 2        | obesity_prev    | Prevalent obesity        | All valid index dates | 0                 | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date |   |                    |
| 3        | overweight_365  | Incident<br>overweight   | All valid index dates | 365               | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date |   |                    |
| 4        | overweight_prev | Prevalent<br>overweight  | All valid index dates | 0                 | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date |   |                    |

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| Appendix E. | Specifications Defi | ning Parameters for this Re                | quest for Nor         | n-Race Coho       | orts             |                                    |                              |   |   |                    |
|-------------|---------------------|--|-----------------------|-------------------|------------------|------------------------------------|------------------------------|---|---|--------------------|
|             |                     |  |                       | Ex                | posure/Eve       | nt                                 |                              |   |   |                    |
| Scenario    | Group               | Index Exposure/ Event                      | Cohort<br>Definition  | Washout<br>Period | Care<br>Setting  | Principal<br>Diagnosis<br>Position | Create<br>Baseline<br>Table? | End At-Risk Period at<br>Evidence of            | Minimum Post-<br>Index Required<br>Days | Age<br>Restriction |
| 5           | smoking_365         | Incident smoking                           | All valid index dates | 365               | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date |   |                    |
| 6           | smoking_prev        | Prevalent smoking                          | All valid index dates | 0                 | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date |   |                    |
| 7           | alcohol_365         | Incident alcohol abuse or dependence       | All valid index dates | 365               | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date |   |                    |
| 8           | alcohol_prev        | Prevalent alcohol abuse or dependence      | All valid index dates | 0                 | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date |   |                    |
| 9           | drug_365            | Incident drug abuse or dependence          | All valid index dates | 365               | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date |   |                    |
| 10          | drug_prev           | Prevalent drug abuse or dependence         | All valid index dates | 0                 | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date |   |                    |
| 11          | cabg_365            | Incident history of CABG or PTCA           | All valid index dates | 365               | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date |   |                    |
| 12          | cabg_prev           | Prevalent history of<br>CABG or PTCA       | All valid index dates | 0                 | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date |   |                    |
| 13          | cardiac_365         | Incident history of sudden cardiac arrest  | All valid index dates | 365               | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date |   |                    |
| 14          | cardiac_prev        | Prevalent history of sudden cardiac arrest | All valid index dates | 0                 | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date |   |                    |

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|          |                      |  |                       | Ex                | posure/Eve       | nt                                 |                              |   |   |                    |
|----------|----------------------|--|-----------------------|-------------------|------------------|------------------------------------|------------------------------|---|---|--------------------|
| Scenario | <b>G</b> roup        | Index Exposure/ Event  | Cohort<br>Definition  | Washout<br>Period | Care<br>Setting  | Principal<br>Diagnosis<br>Position | Create<br>Baseline<br>Table? | End At-Risk Period at<br>Evidence of            | Minimum Post-<br>Index Required<br>Days | Age<br>Restriction |
| 17       | has_diag_bmi         | Has diagnosis code that indicates a range of BMI                               | All valid index dates | 0                 | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date |   |                    |
| 18       | obesity_diag_bmi     | Has diagnosis code that indicates a range of BMI that classifies as obesity    | All valid index dates | 0                 | Any care setting | Any                                | Y                            | Death; Data Partner End<br>Date; Query End Date |   |                    |
| 19       | overweight_diag_bmi  | Has diagnosis code that indicates a range of BMI that classifies as overweight | All valid index dates | 0                 | Any care setting | Any                                | Y                            | Death; Data Partner End<br>Date; Query End Date |   |                    |
| 20       | has_height           | Has non-missing value for height   | All valid index dates | 0                 | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date |   |                    |
| 21       | has_weight           | Has non-missing value for weight   | All valid index dates | 0                 | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date |   |                    |
| 22       | has_vital_bmi        | Has non-missing values<br>for both height and<br>weight within +/- 183<br>days | All valid index dates | 0                 | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date | 183                                     | >=18 years         |
| 23       | obesity_vital_bmi    | Has BMI calculated from vitals is in the obesity range                         | All valid index dates | 0                 | Any care setting | Any                                | Y                            | Death; Data Partner End<br>Date; Query End Date | 183                                     | >=18 years         |
| 24       | overweight_vital_bmi | Has BMI calculated from vitals is in the overweight range                      | All valid index dates | 0                 | Any care setting | Any                                | Y                            | Death; Data Partner End<br>Date; Query End Date | 183                                     | >=18 years         |

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|          |   |   |   | Ex                                 | posure/Ev        | ent  |                              |   |   |                    |
|----------|---|---|---|------------------------------------|------------------|--|------------------------------|---|---|--------------------|
| Scenario | Group   | Index Exposure/ Event                                   | Cohort<br>Definition                      | Washout<br>Period                  | Care<br>Setting  | Principal<br>Diagnosis<br>Position           | Create<br>Baseline<br>Table? | End At-Risk Period at<br>Evidence of                                    | Minimum Post-<br>Index Required<br>Days | Age<br>Restriction |
| 25       | has_dia_bp  | Has non-missing value for diastolic blood pressure      | All valid index dates                     | 0                                  | Any care setting | Any  | Y                            | Death; Data Partner End<br>Date; Query End Date                         |   |                    |
| 26       | has_sys_bp  | Has non-missing value<br>for systolic blood<br>pressure | All valid<br>index dates                  | 0                                  | Any care setting | Any  | Υ                            | Death; Data Partner End<br>Date; Query End Date                         |   |                    |
| #        | Group name used to<br>define scenario in<br>input files | Name of cohort specified                                | <b>01</b><br><b>02</b><br>T1COHORT<br>DEF | Days<br>specified<br>T1WASHP<br>ER |                  | *Any<br>*Principal<br>*Secondary<br>*Unknown | Y<br>N                       | *Death *DP end date *Query end date *Occurrence of an exposure or event |   | Y<br>N             |

Create Baseline Table, Age Restriction: Y: Baseline table will be produced for corresponding cohort grp. N: Baseline table will not be produced for corresponding cohort group. (CREATEBASELINE)

Principal Diagnosis Position is only applicable for Inpatient and Institutional stays. (CARESETTINGPRINCIPAL)

End At-Risk period at Evidence of: Death (CENSOR\_DTH), DP end date (QRP will automatically censor for this), Query end date (INEDENDATE and/or INDENDOPTIONS), Occurrence of an exposure or event (INDEXCRITERIA and/or FUPCRITERIA).

Cohort Definition: 01: Cohort includes only the first valid index date per individual during the query period. 02: Cohort includes all valid index dates per individual during the query period.

Care Setting: IP: Inpatient hospitals stays, IS: non-acute institutional stays, ED: emergency department encounters, AV: ambulatory visits, OA: other ambulatory visits, Blank: any caresetting.

(CARESETTINGPRINCIPAL)

International Classification of Diseases, Ninth Revision (ICD-9), International Classification of Diseases, Tenth Revision (ICD-10), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology (CPT) codes are provided by Optum360.

National Drug Codes (NDC) are checked against First Data Bank's FDB MedKnowledge®

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# Appendix F. Specifications Defining Parameters for this Request for Race Cohorts

An execution of the Cohort Identification and Descriptive Analysis (CIDA) tool version 14.0.1 was requested to calculate rates of confounding variables found in administrative claims data over time in the Sentinel Distributed Database (SDD).

Query Period: January 1, 2020 - December 31, 2021

Coverage Requirement: Medical & Drug Coverage

Pre-Index Enrollment Requirement: 365 Days
Post-Index Requirement: 0 Days

Enrollment Gap: 45 Days

**Age Groups:** 0-17, 18-43, 44-64, and 65+

**Stratifications:** Race\*Age group and Race\*Sex

Censor Output Categorization: Range of follow-up time specified

 $\textbf{Restrictions:} \ \ \text{M/F sex}$ 

**Distribution of Index-Defining Codes:** None

Envelope Macro: Reclassify Freeze Data: No

# Exposure/Event

| Scenario | Group             | Index Exposure/<br>Event                | Cohort<br>Definition      | Washout<br>Period | Care Setting     | Principal<br>Diagnosis<br>Position | Create<br>Baseline<br>Table? | End At-Risk Period at<br>Evidence of            | Minimum Post-<br>Index Required<br>Days | Age<br>Restriction |
|----------|-------------------|---|---------------------------|-------------------|------------------|------------------------------------|------------------------------|---|---|--------------------|
| 15       | has_reported_race | Has non-missing value for reported race | First valid index date    | 0                 | Any care setting | Any                                | Y                            | Death; Data Partner End<br>Date; Query End Date |   |                    |
| 16       | has_imputed_race  | Has non-missing value for imputed race  | First valid<br>index date | 0                 | Any care setting | Any                                | Υ                            | Death; Data Partner End<br>Date; Query End Date |   |                    |

International Classification of Diseases, Ninth Revision (ICD-9), International Classification of Diseases, Tenth Revision (ICD-10), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology (CPT) codes are provided by Optum360.

National Drug Codes (NDC) are checked against First Data Bank's FDB MedKnowledge®

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|   |  |   | Baseline C                              | haracteristics (                      | All run 01 only)  |  |              |                              |
|---|--|---|---|---------------------------------------|---|--|--------------|------------------------------|
| Covariate Name                                | Covariate<br>Number                                      | Code Category   | Covariate<br>Evaluation<br>Period Start | Covariate<br>Evaluation<br>Period End | Number of Instances<br>the Covariate Should<br>be Found in<br>Evaluation Period | Vitals Type  | Vital Values | Applicable<br>Group(s)       |
| Name of covariate<br>specified<br>(STUDYNAME) | Numeric<br>indicator for each<br>covariate<br>(COVARNUM) | RX: Drug code DX: Diagnosis code PX: Procedure code CC: Combination of multiple COVARNUM values to define a covariate EN: Encounter LB: Lab Code VT: Vitals (CODECAT) | Numeric<br>specified<br>(COVFROM)       | Numeric<br>specified<br>(COVTO)       | Numeric specified<br>(CODEDAYS)   | TU: Tobacco Usage TT: Tobacco Type Blank: if CODECAT is not VT (LABSATETYPE) |              |                              |
| Current user                                  | 1  | VT  | -365                                    | 0                                     | 1   | TU   | 1            | smoking_365,<br>smoking_prev |
| Never   | 2  | VT  | -365                                    | 0                                     | 1   | TU   | 2            | smoking_365,<br>smoking_prev |
| Quit/former user                              | 3  | VT  | -365                                    | 0                                     | 1   | TU   | 3            | smoking_365,<br>smoking_prev |
| Passive                                       | 4  | VT  | -365                                    | 0                                     | 1   | TU   | 4            | smoking_365,<br>smoking_prev |

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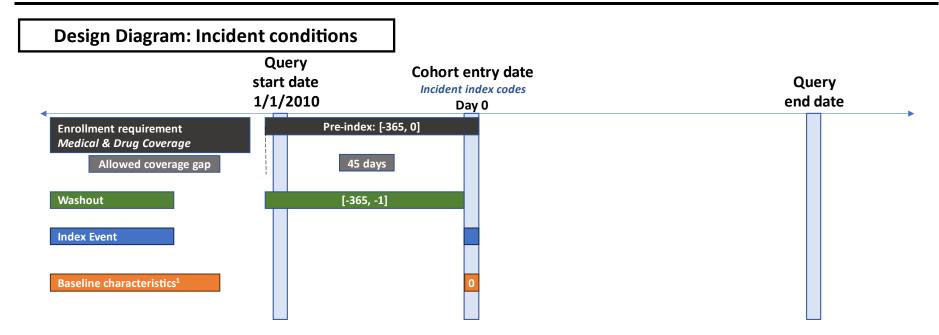


|                              |                     |               | Baseline C                              | haracteristics (                      | All run 01 only)  |             |              |                              |
|------------------------------|---------------------|---------------|---|---------------------------------------|---|-------------|--------------|------------------------------|
| Covariate Name               | Covariate<br>Number | Code Category | Covariate<br>Evaluation<br>Period Start | Covariate<br>Evaluation<br>Period End | Number of Instances<br>the Covariate Should<br>be Found in<br>Evaluation Period | Vitals Type | Vital Values | Applicable<br>Group(s)       |
| Environmental exposure       | 5                   | VT            | -365                                    | 0                                     | 1   | TU          | 5            | smoking_365,<br>smoking_prev |
| Not asked                    | 6                   | VT            | -365                                    | 0                                     | 1   | TU          | 6            | smoking_365,<br>smoking_prev |
| Conflicting                  | 7                   | VT            | -365                                    | 0                                     | 1   | TU          | 7            | smoking_365,<br>smoking_prev |
| Cigarettes only              | 8                   | VT            | -365                                    | 0                                     | 1   | тт          | 1            | smoking_365,<br>smoking_prev |
| Other tobacco only           | 9                   | VT            | -365                                    | 0                                     | 1   | тт          | 2            | smoking_365,<br>smoking_prev |
| Cigarettes and other tobacco | 10                  | VT            | -365                                    | 0                                     | 1   | тт          | 3            | smoking_365,<br>smoking_prev |
| None                         | 11                  | VT            | -365                                    | 0                                     | 1   | тт          | 4            | smoking_365,<br>smoking_prev |

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Appendix H.1 Design Diagram of Cohort Entry Requirements for Incident Condition Cohorts



### <sup>1</sup>Baseline Characteristics

Age, sex, race, Hispanic, year for all cohorts and tobacco use and tobacco type for smoking cohorts.

#### Strata

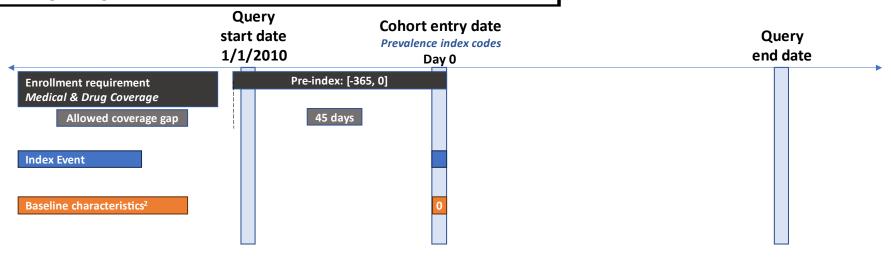
- 1) Year
- 2) Age group (0-17, 18-43, 44-64, and 65+), year
- 3) Sex, year

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# Appendix H.2 Design Diagram of Cohort Entry Requirements for Prevalent Condition and Other Specified Cohorts

# **Design Diagram: Prevalent Condition and Vitals Data Cohorts<sup>1</sup>**



1The above diagram applies to the prevalent condition cohorts as well as the has\_diag\_bmi, obesity\_diag\_bmi, overweight\_diag\_bmi, has\_height, has\_weight, has\_dia\_bp, and has\_sys\_bp cohorts.

### <sup>2</sup>Baseline Characteristics

Age, sex, race, Hispanic, year for all cohorts and tobacco use and tobacco type for smoking cohorts.

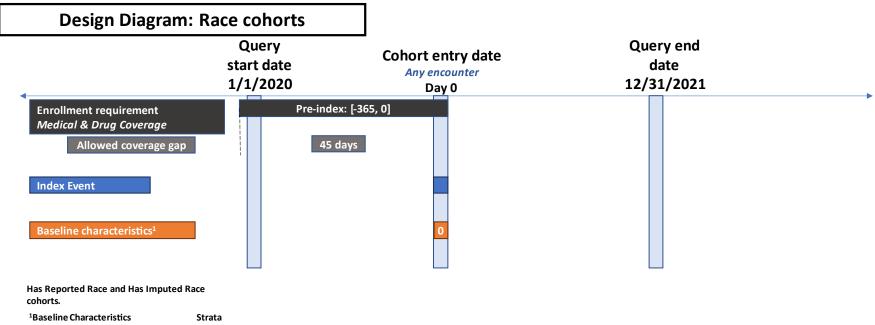
#### Strata

- 1) Year
- 2) Age group (0-17, 18-43, 44-64, and 65+), year
- 3) Sex, year

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# Appendix H.3 Design Diagram of Cohort Entry Requirements for Race Cohorts



Age, sex, race, Hispanic, Year

1) Race, age group (0-17, 18-43, 44-64, and 65+)

2) Race, sex

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