

## 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: ocet\_ahr\_wp001, Report 2 of 6

**Request ID:** ocet\_ahr\_wp001\_ahr\_wp001

**Request Description:** In this report we examined "ordinal" endpoints related to influenza (i.e., select complications of influenza, of increasing severity) among one cohort: individuals diagnosed in the outpatient, ambulatory, or emergency department setting with influenza-like illness (ILI)<sup>1</sup> in the Sentinel Distributed Database (SDD). This is report 2 of 6. Reports 1-3 identify ILI cohorts only and include data from the Centers for Medicare and Medicaid Services (CMS); the individual reports vary by study period. Reports 4-6 include ILI, pneumonia and influenza (P&I), and medically attended acute respiratory illness (MAARI) cohorts, and do not include CMS as a Data Partner; the individual reports vary by study period.

**Sentinel Routine Querying Module:** Cohort Identification and Descriptive Analysis (CIDA) module, version 6.0.0, with ad hoc programming

**Data Source:** We distributed this request to 13 Sentinel Data Partners (DPs) on October 7, 2019. The study period included data from July 1, 2015 through June 30, 2016. Please see Appendix A for a list of dates of available data for each Data Partner.

**Study Design:** We identified individuals with incident diagnoses of ILI in the outpatient, ambulatory, or emergency department setting and evaluated the occurrence of outpatient treatment with oseltamivir, zanamivir, or peramivir within five days after diagnosis, among a cohort who were at least six months old. We then looked for eight outcomes from the day after treatment through 30 days after diagnosis. This is a modified Type 2 analysis in the Query Request Package (QRP) documentation.

**Cohorts of Interest:** We defined the cohort of interest as incident diagnoses of ILI using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and Tenth Revision, Clinical Modification (ICD-10-CM) diagnosis codes. All qualifying (index) diagnoses in outpatient, ambulatory, and emergency department settings for each member were included; cohort re-entry was allowed with a washout of 30 days for the event of interest. Please see Appendix B for the specific diagnosis codes used.

**Outcomes of Interest:** We defined the outcomes of interest as the following: 1) admission to hospital (i.e., inpatient encounter); 2) admission to hospital with discharge status of alive; 3) biphasic positive airway pressure (BiPAP); 4) supplemental oxygen; 5) mechanical ventilation; 6) critical or observational care; 7) extracorporeal membrane oxygenation (ECMO); and 8) death. We assessed all outcomes, with the exception of hospitalizations, in any care setting. Hospitalizations were assessed in the inpatient care setting. Death was defined using information in the death table of the Common Data Model with a confidence of "excellent", or hospitalizations with a discharge status of expired. Please see Appendix C for a list of the ICD-9-CM, 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 Revenue codes used to define outcomes in this report.

**Cohort Eligibility Criteria:** We required members to be enrolled in health plans with medical and drug coverage in the 183 days prior to their index diagnosis in order to be included in the cohort; a gap in coverage of up to 45 days was allowed and treated as continuous enrollment. The following age groups were included in the cohort: 6 months-4 years, 5-17 years, 18-49 years, 50-64 years, and 65+ years. We excluded index diagnoses if there was evidence of influenza treatment with oseltamivir, zanamivir, or peramivir in the ten days prior to the index event. See Appendix D for a list of generic and brand name medical products and Appendix E for HCPCS codes to define influenza treatment.

## Overview for Request: ocet\_ahr\_wp001, Report 2 of 6

**Follow-up Time:** We created episodes based on the status and timing of treatment with oseltamivir, zanamivir, or peramivir. We looked for treatment on the day of the index diagnosis through the following five days. Treatment status was classified as the day of diagnosis, the day after diagnosis, days 1-5 after diagnosis, and not treated. Only index diagnoses falling in these categories were followed for outcomes, with a maximum follow-up time of 30 days after the index. Follow-up began on the day following treatment, and continued until the first occurrence of any of the following: 1) disenrollment; 2) the end of the data provided by each Data Partner; 3) the end of the query period; or 4) occurrence of the outcome.

We separately report valid index diagnoses with an outcome in the following situations:

- I. Not treated prior to outcome, and outcome occurred on days 0-5;
- II. Treatment and outcome occurred on the same-day, on day 0;
- III. Treatment and outcome occurred on the same-day, on day 1;
- IV. Treatment and outcome occurred on the same-day, on days 1-5;

We excluded index dates in the following situations:

- V. Censoring due to disenrollment, DP data ended, or the query period occurred within five days of event index and there was no treatment nor outcome;
- VI. Censoring due to disenrollment, DP data ended, or the query period occurred within five days of event index on the same day as treatment

Members from groups 1-4 above were characterized for the outcome that caused the exclusion.

**Baseline Characteristics:** We assessed the following characteristics in any care setting within the 183 days prior to and including the index date of the index diagnosis: age, year, sex, health service and drug utilization, asthma, chronic obstructive pulmonary disorder (COPD), diabetes, obesity, and influenza vaccination. We assessed influenza testing on the day of the index diagnosis in addition to seven days prior to and post the diagnosis. Pneumococcal vaccination was assessed on the day of the index diagnosis through the member's prior enrollment history. Please see Appendix F for a list of generic and brand names for the vaccinations. Appendix G contains ICD-9-CM, ICD-10-CM, ICD-10-PCS, CPT, and HCPCS used to define the baseline characteristics.

*Baseline characteristics of index events were provided for all treatment groups and baseline characteristics of excluded groups 1-4 were provided when the excluding outcome was any hospitalization or death.*

***Please see Appendices H and I for the specifications of parameters used in the analyses for this request.***

***Please see Appendix J for a diagram detailing the design of this request.***

**Limitations:** Algorithms to define exposures, outcomes, and treatment are imperfect and may be misclassified. Therefore, data should be interpreted with this limitation in mind. Death data may be incomplete and should be interpreted with caution.

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

<sup>1</sup>Eick-Cost et al. Assessment of ICD-9-based Case Definitions for Influenza-like Illness Surveillance. *MSMR* 2015; 22(9):2-7.

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

**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).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

\*all terms may not be used in this report

**Table 1a. Aggregated Baseline Table for Influenza-like Illness (ILI) and those Treated Day of Diagnosis in the Sentinel Distributed Database (SDD) between July 2015 and June 2016**

<b>Characteristic<sup>1</sup></b>	<b>Number</b>	
Number of episodes	250,087	
Number of unique patients	248,813	
<b>Demographics</b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean Age (Years)	37.1	18.4
Age (Years)	<b>Number</b>	<b>Percent</b>
6 Months - 4	21,401	8.6%
5-17	54,197	21.7%
18-49	93,063	37.2%
50-64	38,793	15.5%
65+	42,633	17.0%
Sex		
Female	134,442	54.0%
Male	*****	*****
Other	*****	*****
Year		
2015	27,526	11.0%
2016	222,561	89.0%
<b>Recorded history of:</b>	<b>Number</b>	<b>Percent</b>
<b>Day 0</b>		
Influenza vaccination	821	0.3%
<b>Day -7 to Day 7</b>		
Influenza Testing	173,673	69.4%
<b>Day -183 to Day 0</b>	<b>Mean</b>	<b>Standard Deviation</b>
Prior combined comorbidity raw score	0.4	1.2
	<b>Number</b>	<b>Percent</b>
Influenza vaccination	54,520	21.8%
Asthma	21,951	8.8%
Chronic obstructive pulmonary disease	9,047	3.6%
Diabetes	24,166	9.7%
Obesity	18,991	7.6%
<b>Enrollment History to Day 0</b>		
Pneumococcal vaccination	61,990	24.8%
<b>Health Service Utilization Intensity:</b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean number of ambulatory encounters (AV)	6.9	8.3
Mean number of emergency room encounters (ED)	0.3	0.9
Mean number of inpatient hospital encounters (IP)	0	0.3
Mean number of non-acute institutional encounters (IS)	0	0.2
Mean number of other ambulatory encounters (OA)	1.2	3.7
Mean number of unique drug classes	5.3	3.7
Mean number of generics	5.6	4.1
Mean number of filled prescriptions	10.8	12.2

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex which is based on total number of patients

\*\*\*\*\*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 1b. Aggregated Baseline Table for Influenza-like Illness (ILI) and those Treated Day after Diagnosis in the Sentinel Distributed Database (SDD) between July 2015 and June 2016**

<b>Characteristic<sup>1</sup></b>	<b>Number</b>	
Number of episodes	21,885	
Number of unique patients	21,866	
<b>Demographics</b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean Age (Years)	43.9	18.2
Age (Years)	<b>Number</b>	<b>Percent</b>
6 Months - 4	1,853	8.5%
5-17	3,327	15.2%
18-49	6,753	30.9%
50-64	3,683	16.8%
65+	6,269	28.6%
Sex		
Female	12,206	55.8%
Male	*****	*****
Other	*****	*****
Year		
2015	2,023	9.2%
2016	19,862	90.8%
<b>Recorded history of:</b>	<b>Number</b>	<b>Percent</b>
<b>Day 0</b>		
Influenza vaccination	79	0.4%
<b>Day -7 to Day 7</b>		
Influenza Testing	15,567	71.1%
<b>Day -183 to Day 0</b>	<b>Mean</b>	<b>Standard Deviation</b>
Prior combined comorbidity raw score	1.2	2
	<b>Number</b>	<b>Percent</b>
Influenza vaccination	5,252	24.0%
Asthma	2,985	13.6%
Chronic obstructive pulmonary disease	2,384	10.9%
Diabetes	4,246	19.4%
Obesity	2,760	12.6%
<b>Enrollment History to Day 0</b>		
Pneumococcal vaccination	7,378	33.7%
<b>Health Service Utilization Intensity:</b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean number of ambulatory encounters (AV)	9.4	12.1
Mean number of emergency room encounters (ED)	1.1	1.8
Mean number of inpatient hospital encounters (IP)	0.2	0.6
Mean number of non-acute institutional encounters (IS)	0	0.4
Mean number of other ambulatory encounters (OA)	2.8	7.5
Mean number of unique drug classes	5.7	4.5
Mean number of generics	6.1	5
Mean number of filled prescriptions	15.6	17.6

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex which is based on total number of patients

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**Table 1c. Aggregated Baseline Table for Influenza-like Illness (ILI) and those Treated 1-5 Days after Diagnosis in the Sentinel Distributed Database (SDD) between July 2015 and June 2016**

<b>Characteristic<sup>1</sup></b>	<b>Number</b>	
Number of episodes	35,762	
Number of unique patients	35,717	
<b>Demographics</b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean Age (Years)	50.8	17.8
Age (Years)	<b>Number</b>	<b>Percent</b>
6 Months - 4	2,216	6.2%
5-17	4,025	11.3%
18-49	8,927	25.0%
50-64	6,507	18.2%
65+	14,087	39.4%
Sex		
Female	19,948	55.9%
Male	*****	*****
Other	*****	*****
Year		
2015	3,366	9.4%
2016	32,396	90.6%
<b>Recorded history of:</b>	<b>Number</b>	<b>Percent</b>
<b>Day 0</b>		
Influenza vaccination	167	0.5%
<b>Day -7 to Day 7</b>		
Influenza Testing	20,626	57.7%
<b>Day -183 to Day 0</b>	<b>Mean</b>	<b>Standard Deviation</b>
Prior combined comorbidity raw score	2	2.4
	<b>Number</b>	<b>Percent</b>
Influenza vaccination	9,976	27.9%
Asthma	5,832	16.3%
Chronic obstructive pulmonary disease	6,909	19.3%
Diabetes	9,327	26.1%
Obesity	5,808	16.2%
<b>Enrollment History to Day 0</b>		
Pneumococcal vaccination	13,573	38.0%
<b>Health Service Utilization Intensity:</b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean number of ambulatory encounters (AV)	11.5	14.5
Mean number of emergency room encounters (ED)	1	1.8
Mean number of inpatient hospital encounters (IP)	0.4	0.8
Mean number of non-acute institutional encounters (IS)	0.1	0.5
Mean number of other ambulatory encounters (OA)	4	8.7
Mean number of unique drug classes	6.8	4.8
Mean number of generics	7.4	5.4
Mean number of filled prescriptions	19.6	19.7

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex which is based on total number of patients

\*\*\*\*\*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 1d. Aggregated Baseline Table for Influenza-like Illness (ILI) and NOT Treated 0-5 Days after Diagnosis in the Sentinel Distributed Database (SDD) between July 2015 and June 2016**

<b>Characteristic<sup>1</sup></b>	<b>Number</b>	
Number of episodes	292,699	
Number of unique patients	284,201	
<b>Demographics</b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean Age (Years)	44.3	19.3
Age (Years)	<b>Number</b>	<b>Percent</b>
6 Months - 4	21,567	7.4%
5-17	51,908	17.7%
18-49	85,321	29.1%
50-64	46,416	15.9%
65+	87,487	29.9%
Sex		
Female	159,337	56.1%
Male	*****	*****
Other	*****	*****
Year		
2015	69,250	23.7%
2016	223,449	76.3%
<b>Recorded history of:</b>	<b>Number</b>	<b>Percent</b>
<b>Day 0</b>		
Influenza vaccination	9,233	3.2%
<b>Day -7 to Day 7</b>		
Influenza Testing	134,902	46.1%
<b>Day -183 to Day 0</b>	<b>Mean</b>	<b>Standard Deviation</b>
Prior combined comorbidity raw score	1.3	2.2
	<b>Number</b>	<b>Percent</b>
Influenza vaccination	71,313	24.4%
Asthma	32,404	11.1%
Chronic obstructive pulmonary disease	33,899	11.6%
Diabetes	52,104	17.8%
Obesity	31,946	10.9%
<b>Enrollment History to Day 0</b>		
Pneumococcal vaccination	84,307	28.8%
<b>Health Service Utilization Intensity:</b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean number of ambulatory encounters (AV)	9.1	12.2
Mean number of emergency room encounters (ED)	0.5	1.6
Mean number of inpatient hospital encounters (IP)	0.2	0.7
Mean number of non-acute institutional encounters (IS)	0.1	0.5
Mean number of other ambulatory encounters (OA)	3.8	10
Mean number of unique drug classes	5.2	4.3
Mean number of generics	5.6	4.8
Mean number of filled prescriptions	13.9	17

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex which is based on total number of patients

\*\*\*\*\*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 2. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016, Overall**

	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>ILI</b>					
Total	567,218	72,189,819	580,752	0.0	0.50
Treated on Day of Diagnosis	248,813		250,087	19,661.1	1.01
Treated Day After Diagnosis	21,866		21,885	1,662.2	1.00
Treated 1-5 Days After Diagnosis	35,717		35,762	2,647.7	1.00
NOT Treated Within 5 Days of Diagnosis	284,201		292,699	18,910.5	0.00
<b>ILI - Treated Day of Diagnosis</b>					
Hospitalization	248,581		249,854	19,421.7	1.01
Bilevel Positive Airway Pressure (BiPAP)	248,799		250,072	19,634.3	1.01
Supplemental oxygen	242,309		243,523	18,956.5	1.01
Mechanical ventilation	248,799		250,073	19,646.3	1.01
Critical Care	248,503		249,776	19,461.3	1.01
Extracorporeal membrane oxygenation (ECMO)	248,813		250,087	19,660.9	1.01
Death	248,811		250,085	19,655.6	1.01
Discharge from hospital alive	248,593		249,866	19,433.9	1.01
<b>ILI - Treated Day After Diagnosis</b>					
Hospitalization	21,117		21,134	1,563.2	1.00
BiPAP	21,860		21,879	1,659.7	1.00
Supplemental oxygen	19,544		19,562	1,462.8	1.00
Mechanical ventilation	21,845		21,864	1,656.9	1.00
Critical Care	20,949		20,967	1,561.1	1.00
ECMO	21,865		21,884	1,662.2	1.00
Death	21,866		21,885	1,660.2	1.00
Discharge from hospital alive	21,140		21,157	1,567.5	1.00

**Table 2. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016, Overall**

	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>ILI - Treated 1-5 Days After Diagnosis</b>					
Hospitalization	27,574		27,599	2,007.4	1.00
BiPAP	35,708		35,753	2,643.5	1.00
Supplemental oxygen	31,246		31,281	2,273.5	1.00
Mechanical ventilation	35,491		35,534	2,624.5	1.00
Critical Care	28,293		28,321	2,070.2	1.00
ECMO	35,716		35,761	2,647.7	1.00
Death	35,713		35,758	2,643.1	1.00
Discharge from hospital alive	27,737		27,762	2,022.4	1.00
<b>ILI - NOT Treated 0-5 Days After Diagnosis</b>					
Hospitalization	262,508		270,177	17,282.9	0.00
BiPAP	284,067		292,559	18,883.1	0.00
Supplemental oxygen	270,321		278,335	17,841.4	0.00
Mechanical ventilation	281,306		289,672	18,695.6	0.00
Critical Care	261,054		268,670	17,223.0	0.00
ECMO	284,160		292,654	18,907.4	0.00
Death	283,242		291,721	18,802.2	0.00
Discharge from hospital alive	263,786		271,476	17,361.9	0.00
<b>ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis</b>					
Hospitalization	30,534		30,671		
BiPAP	147		147		
Supplemental oxygen	18,664		18,768		
Mechanical ventilation	3,270		3,274		
Critical Care	31,294		31,498		
ECMO	46		46		
Death	1,102		1,102		
Discharge from hospital alive	29,055		29,186		

**Table 2. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016, Overall**

	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>ILI - Excluded: Outcome and Treatment, on Day of Diagnosis</b>					
Hospitalization	233		233		
BiPAP	15		15		
Supplemental oxygen	6,561		6,567		
Mechanical ventilation	14		14		
Critical Care	311		311		
ECMO	0		0		
Death	*****		*****		
Discharge from hospital alive	221		221		
<b>ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis</b>					
Hospitalization	173		173		
BiPAP	*****		*****		
Supplemental oxygen	162		162		
Mechanical ventilation	13		13		
Critical Care	196		196		
ECMO	*****		*****		
Death	*****		*****		
Discharge from hospital alive	155		155		

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

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

Data are not presented in shaded cells due to their inability to be calculated.

**Table 2. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016, Overall**

	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>ILI</b>						
Total	2.62	5.20				60,702,468.5
Treated on Day of Diagnosis	5.29	5.26				
Treated Day After Diagnosis	5.23	5.23				
Treated 1-5 Days After Diagnosis	4.78	4.77				
NOT Treated Within 5 Days of Diagnosis	0.00					
<b>ILI - Treated Day of Diagnosis</b>						
Hospitalization	5.29	5.26	4,072	16.30	209.66	
Bilevel Positive Airway Pressure (BiPAP)	5.29	5.26	652	2.61	33.21	
Supplemental oxygen	5.29	5.26	3,406	13.99	179.67	
Mechanical ventilation	5.29	5.26	245	0.98	12.47	
Critical Care	5.29	5.26	3,226	12.92	165.76	
Extracorporeal membrane oxygenation (ECMO)	5.29	5.26	*****	*****	*****	
Death	5.29	5.26	180	0.72	9.16	
Discharge from hospital alive	5.29	5.26	3,833	15.34	197.23	
<b>ILI - Treated Day After Diagnosis</b>						
Hospitalization	5.25	5.25	835	39.51	534.16	
BiPAP	5.23	5.23	63	2.88	37.96	
Supplemental oxygen	5.26	5.25	422	21.57	288.49	
Mechanical ventilation	5.24	5.23	71	3.25	42.85	
Critical Care	5.25	5.25	640	30.52	409.97	
ECMO	5.23	5.23	0	0.00	0.00	
Death	5.23	5.23	75	3.43	45.18	
Discharge from hospital alive	5.25	5.25	772	36.49	492.50	

**Table 2. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016, Overall**

	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>ILI - Treated 1-5 Days After Diagnosis</b>						
Hospitalization	5.11	5.10	1,257	45.55	626.18	
BiPAP	4.78	4.77	110	3.08	41.61	
Supplemental oxygen	4.82	4.81	886	28.32	389.71	
Mechanical ventilation	4.79	4.78	151	4.25	57.53	
Critical Care	5.05	5.04	1,022	36.09	493.67	
ECMO	4.78	4.77	*****	*****	*****	
Death	4.78	4.77	172	4.81	65.08	
Discharge from hospital alive	5.10	5.09	1,176	42.36	581.49	
<b>ILI - NOT Treated 0-5 Days After Diagnosis</b>						
Hospitalization	0.00		5,415	20.04	313.32	
BiPAP	0.00		569	1.94	30.13	
Supplemental oxygen	0.00		3,745	13.46	209.91	
Mechanical ventilation	0.00		945	3.26	50.55	
Critical Care	0.00		4,563	16.98	264.94	
ECMO	0.00		*****	*****	*****	
Death	0.00		2,624	8.99	139.56	
Discharge from hospital alive	0.00		5,066	18.66	291.79	
<b>ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis</b>						
Hospitalization						
BiPAP						
Supplemental oxygen						
Mechanical ventilation						
Critical Care						
ECMO						
Death						
Discharge from hospital alive						

**Table 2. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016, Overall**

	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>ILI - Excluded: Outcome and Treatment, on Day of Diagnosis</b>						
Hospitalization						
BiPAP						
Supplemental oxygen						
Mechanical ventilation						
Critical Care						
ECMO						
Death						
Discharge from hospital alive						
<b>ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis</b>						
Hospitalization						
BiPAP						
Supplemental oxygen						
Mechanical ventilation						
Critical Care						
ECMO						
Death						
Discharge from hospital alive						

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

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

Data are not presented in shaded cells due to their inability to be calculated.

**Table 3. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Sex**

Sex	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>ILI</b>											
<b>Total</b>											
Female	312,906	38,399,648	320,710	0.0	0.50	2.57	5.18				32,556,854.8
Male	254,298	33,788,178	260,027	0.0	0.51	2.69	5.22				28,144,157.3
Other	14	1,993	15	0.0	0.64	3.29	5.11				1,456.4
<b>Treated on Day of Diagnosis</b>											
Female	134,442		135,113	10,623.1	1.01	5.27	5.24				
Male	*****		*****	9,037.4	1.01	5.32	5.29				
Other	*****		*****	0.6	1.00	5.13	5.13				
<b>Treated Day After Diagnosis</b>											
Female	12,206		12,215	928.1	1.00	5.21	5.20				
Male	*****		*****	734.0	1.00	5.27	5.26				
Other	*****		*****	0.1	1.00	5.00	5.00				
<b>Treated 1-5 Days After Diagnosis</b>											
Female	19,948		19,971	1,478.6	1.00	4.77	4.76				
Male	*****		*****	1,169.1	1.00	4.79	4.78				
Other	*****		*****	0.1	1.00	5.00	5.00				
<b>NOT Treated Within 5 Days of Diagnosis</b>											
Female	159,337		164,382	10,625.7	0.00	0.00					
Male	*****		*****	8,284.3	0.00	0.00					
Other	*****		*****	0.4	0.00	0.00					
<b>ILI - Treated Day of Diagnosis</b>											
<b>Hospitalization</b>											
Female	134,311		134,982	10,481.7	1.01	5.27	5.24	2,413	17.88	230.21	
Male	*****		*****	8,939.4	1.01	5.32	5.29	1,659	14.44	185.58	
Other	*****		*****	0.6	1.00	5.13	5.13	0	0.00	0.00	

**Table 3. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Sex**

Sex	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Bilevel Positive Airway Pressure (BiPAP)</b>											
Female	134,436		135,107	10,613.7	1.01	5.27	5.24	223	1.65	21.01	
Male	*****		*****	9,020.0	1.01	5.32	5.29	429	3.73	47.56	
Other	*****		*****	0.6	1.00	5.13	5.13	0	0.00	0.00	
<b>Supplemental oxygen</b>											
Female	130,677		131,315	10,206.9	1.01	5.27	5.24	2,116	16.11	207.31	
Male	*****		*****	8,748.9	1.01	5.32	5.29	1,290	11.50	147.45	
Other	*****		*****	0.6	1.00	5.13	5.13	0	0.00	0.00	
<b>Mechanical ventilation</b>											
Female	134,431		135,102	10,614.6	1.01	5.27	5.24	135	1.00	12.72	
Male	*****		*****	9,031.1	1.01	5.32	5.29	110	0.96	12.18	
Other	*****		*****	0.6	1.00	5.13	5.13	0	0.00	0.00	
<b>Critical Care</b>											
Female	134,268		134,939	10,508.7	1.01	5.27	5.24	1,848	13.70	175.85	
Male	*****		*****	8,952.0	1.01	5.32	5.29	1,378	12.00	153.93	
Other	*****		*****	0.6	1.00	5.13	5.13	0	0.00	0.00	
<b>Extracorporeal membrane oxygenation (ECMO)</b>											
Female	134,442		135,113	10,623.0	1.01	5.27	5.24	*****	*****	*****	
Male	*****		*****	9,037.3	1.01	5.32	5.29	*****	*****	*****	
Other	*****		*****	0.6	1.00	5.13	5.13	0	0.00	0.00	
<b>Death</b>											
Female	134,440		135,111	10,619.7	1.01	5.27	5.24	109	0.81	10.26	
Male	*****		*****	9,035.3	1.01	5.32	5.29	71	0.62	7.86	
Other	*****		*****	0.6	1.00	5.13	5.13	0	0.00	0.00	

**Table 3. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Sex**

Sex	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Discharge from hospital alive</b>											
Female	134,318		134,989	10,488.6	1.01	5.27	5.24	2,274	16.85	216.81	
Male	*****		*****	8,944.6	1.01	5.32	5.29	1,559	13.57	174.30	
Other	*****		*****	0.6	1.00	5.13	5.13	0	0.00	0.00	
<b>ILI - Treated Day After Diagnosis</b>											
<b>Hospitalization</b>											
Female	11,833		11,841	873.9	1.00	5.22	5.22	519	43.83	593.89	
Male	*****		*****	689.1	1.00	5.29	5.28	316	34.01	458.57	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
<b>BiPAP</b>											
Female	12,203		12,212	926.8	1.00	5.20	5.20	32	2.62	34.53	
Male	*****		*****	732.8	1.00	5.27	5.26	31	3.21	42.30	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
<b>Supplemental oxygen</b>											
Female	10,877		10,885	812.1	1.00	5.23	5.22	271	24.90	333.70	
Male	*****		*****	650.6	1.00	5.30	5.29	151	17.40	232.09	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
<b>Mechanical ventilation</b>											
Female	12,200		12,209	925.7	1.00	5.21	5.20	39	3.19	42.13	
Male	*****		*****	731.1	1.00	5.27	5.26	32	3.31	43.77	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
<b>Critical Care</b>											
Female	11,744		11,753	874.0	1.00	5.22	5.22	388	33.01	443.94	
Male	*****		*****	687.0	1.00	5.30	5.28	252	27.35	366.81	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	

**Table 3. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Sex**

Sex	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>ECMO</b>											
Female	12,205		12,214	928.1	1.00	5.21	5.20	0	0.00	0.00	
Male	*****		*****	734.0	1.00	5.27	5.26	0	0.00	0.00	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
<b>Death</b>											
Female	12,206		12,215	926.9	1.00	5.21	5.20	41	3.36	44.23	
Male	*****		*****	733.2	1.00	5.27	5.26	34	3.52	46.37	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
<b>Discharge from hospital alive</b>											
Female	11,846		11,854	876.2	1.00	5.22	5.22	483	40.75	551.24	
Male	*****		*****	691.2	1.00	5.29	5.28	289	31.07	418.11	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
<b>ILI - Treated 1-5 Days After Diagnosis</b>											
<b>Hospitalization</b>											
Female	15,542		15,555	1,128.5	1.00	5.08	5.07	762	48.99	675.23	
Male	*****		*****	878.9	1.00	5.14	5.14	495	41.10	563.20	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
<b>BiPAP</b>											
Female	19,943		19,966	1,476.3	1.00	4.77	4.76	58	2.90	39.29	
Male	*****		*****	1,167.1	1.00	4.79	4.78	52	3.29	44.55	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
<b>Supplemental oxygen</b>											
Female	17,314		17,331	1,258.0	1.00	4.81	4.80	531	30.64	422.10	
Male	*****		*****	1,015.4	1.00	4.82	4.81	355	25.45	349.62	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	

**Table 3. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Sex**

Sex	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Mechanical ventilation</b>											
Female	19,815		19,838	1,464.8	1.00	4.78	4.77	92	4.64	62.81	
Male	*****		*****	1,159.6	1.00	4.79	4.78	59	3.76	50.88	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
<b>Critical Care</b>											
Female	15,999		16,014	1,168.2	1.00	5.02	5.01	608	37.97	520.46	
Male	*****		*****	902.0	1.00	5.09	5.08	414	33.64	458.98	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
<b>ECMO</b>											
Female	19,947		19,970	1,478.6	1.00	4.77	4.76	0	0.00	0.00	
Male	*****		*****	1,169.0	1.00	4.79	4.78	*****	*****	*****	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
<b>Death</b>											
Female	19,946		19,969	1,475.9	1.00	4.77	4.76	100	5.01	67.76	
Male	*****		*****	1,167.2	1.00	4.79	4.78	72	4.56	61.69	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
<b>Discharge from hospital alive</b>											
Female	15,640		15,653	1,137.3	1.00	5.07	5.06	713	45.55	626.92	
Male	*****		*****	885.1	1.00	5.14	5.13	463	38.24	523.10	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
<b>ILI - NOT Treated 0-5 Days After Diagnosis</b>											
<b>Hospitalization</b>											
Female	146,768		151,295	9,677.5	0.00	0.00		3,148	20.81	325.29	
Male	*****		*****	7,605.0	0.00	0.00		2,267	19.07	298.09	
Other	*****		*****	0.4	0.00	0.00		0	0.00	0.00	

**Table 3. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Sex**

Sex	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>BiPAP</b>											
Female	159,291		164,333	10,614.6	0.00	0.00		243	1.48	22.89	
Male	*****		*****	8,268.1	0.00	0.00		326	2.54	39.43	
Other	*****		*****	0.4	0.00	0.00		0	0.00	0.00	
<b>Supplemental oxygen</b>											
Female	151,012		155,732	9,976.9	0.00	0.00		2,326	14.94	233.14	
Male	*****		*****	7,864.2	0.00	0.00		1,419	11.57	180.44	
Other	*****		*****	0.4	0.00	0.00		0	0.00	0.00	
<b>Mechanical ventilation</b>											
Female	157,807		162,773	10,511.2	0.00	0.00		495	3.04	47.09	
Male	*****		*****	8,184.0	0.00	0.00		450	3.55	54.99	
Other	*****		*****	0.4	0.00	0.00		0	0.00	0.00	
<b>Critical Care</b>											
Female	146,246		150,743	9,666.9	0.00	0.00		2,556	16.96	264.41	
Male	*****		*****	7,555.8	0.00	0.00		2,007	17.02	265.62	
Other	*****		*****	0.4	0.00	0.00		0	0.00	0.00	
<b>ECMO</b>											
Female	159,323		164,367	10,624.6	0.00	0.00		*****	*****	*****	
Male	*****		*****	8,282.4	0.00	0.00		*****	*****	*****	
Other	*****		*****	0.4	0.00	0.00		0	0.00	0.00	
<b>Death</b>											
Female	158,841		163,875	10,570.5	0.00	0.00		1,352	8.25	127.90	
Male	*****		*****	8,231.3	0.00	0.00		1,272	9.95	154.53	
Other	*****		*****	0.4	0.00	0.00		0	0.00	0.00	

**Table 3. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Sex**

Sex	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Discharge from hospital alive</b>											
Female	147,397		151,932	9,717.2	0.00	0.00		2,944	19.38	302.97	
Male	*****		*****	7,644.3	0.00	0.00		2,122	17.75	277.59	
Other	*****		*****	0.4	0.00	0.00		0	0.00	0.00	
<b>ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis</b>											
<b>Hospitalization</b>											
Female	17,421										
Male	13,113										
Other	0										
<b>BiPAP</b>											
Female	54										
Male	93										
Other	0										
<b>Supplemental oxygen</b>											
Female	11,166										
Male	7,498										
Other	0										
<b>Mechanical ventilation</b>											
Female	1,755										
Male	1,515										
Other	0										
<b>Critical Care</b>											
Female	17,505										
Male	13,789										
Other	0										

**Table 3. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Sex**

Sex	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>ECMO</b>											
Female	16										
Male	30										
Other	0										
<b>Death</b>											
Female	581										
Male	521										
Other	0										
<b>Discharge from hospital alive</b>											
Female	16,673										
Male	12,382										
Other	0										
<b>ILI - Excluded: Outcome and Treatment, on Day of Diagnosis</b>											
<b>Hospitalization</b>											
Female	131										
Male	102										
Other	0										
<b>BiPAP</b>											
Female	*****										
Male	*****										
Other	0										
<b>Supplemental oxygen</b>											
Female	3,793										
Male	2,768										
Other	0										

**Table 3. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Sex**

Sex	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Mechanical ventilation</b>											
Female	*****										
Male	*****										
Other	0										
<b>Critical Care</b>											
Female	174										
Male	137										
Other	0										
<b>ECMO</b>											
Female	0										
Male	0										
Other	0										
<b>Death</b>											
Female	*****										
Male	0										
Other	0										
<b>Discharge from hospital alive</b>											
Female	124										
Male	97										
Other	0										
<b>ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis</b>											
<b>Hospitalization</b>											
Female	90										
Male	83										
Other	0										

**Table 3. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Sex**

Sex	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>BiPAP</b>											
Female	0										
Male	*****										
Other	0										
<b>Supplemental oxygen</b>											
Female	100										
Male	62										
Other	0										
<b>Mechanical ventilation</b>											
Female	*****										
Male	*****										
Other	0										
<b>Critical Care</b>											
Female	100										
Male	96										
Other	0										
<b>ECMO</b>											
Female	*****										
Male	0										
Other	0										
<b>Death</b>											
Female	*****										
Male	*****										
Other	0										

**Table 3. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Sex**

Sex	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Discharge from hospital alive</b>											
Female	79										
Male	76										
Other	0										

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

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

Data are not presented in shaded cells due to their inability to be calculated.

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>ILI</b>					
<b>Total</b>					
6 Months - 4	44,186	2,466,907	45,334	0.0	0.54
5-17	108,696	7,419,440	110,402	0.0	0.54
18-49	185,390	24,015,552	188,022	0.0	0.55
50-64	89,899	13,834,726	92,070	0.0	0.50
65+	139,177	26,501,238	144,924	0.0	0.41
<b>Treated on Day of Diagnosis</b>					
6 Months - 4	21,176		21,401	1,681.1	1.01
5-17	53,807		54,197	4,267.4	1.01
18-49	92,729		93,063	7,303.5	1.00
50-64	38,635		38,793	3,049.5	1.00
65+	42,480		42,633	3,359.6	1.00
<b>Treated Day After Diagnosis</b>					
6 Months - 4	1,847		1,853	141.0	1.00
5-17	3,323		3,327	253.3	1.00
18-49	6,751		6,753	512.4	1.00
50-64	3,680		3,683	279.6	1.00
65+	6,265		6,269	475.8	1.00
<b>Treated 1-5 Days After Diagnosis</b>					
6 Months - 4	2,208		2,216	167.1	1.00
5-17	4,019		4,025	303.6	1.00
18-49	8,923		8,927	667.0	1.00
50-64	6,500		6,507	479.8	1.00
65+	14,067		14,087	1,030.2	1.00

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>NOT Treated Within 5 Days of Diagnosis</b>					
6 Months - 4	21,045		21,567	1,397.9	0.00
5-17	51,227		51,908	3,380.0	0.00
18-49	83,967		85,321	5,514.4	0.00
50-64	44,968		46,416	2,999.4	0.00
65+	83,060		87,487	5,618.9	0.00
<b>ILI - Treated Day of Diagnosis</b>					
<b>Hospitalization</b>					
6 Months - 4	21,170		21,395	1,674.4	1.01
5-17	53,806		54,196	4,261.2	1.01
18-49	92,698		93,032	7,256.6	1.00
50-64	38,577		38,735	2,999.3	1.00
65+	42,344		42,496	3,230.2	1.00
<b>Bilevel Positive Airway Pressure (BiPAP)</b>					
6 Months - 4	21,176		21,401	1,681.1	1.01
5-17	53,807		54,197	4,267.0	1.01
18-49	92,722		93,055	7,292.0	1.00
50-64	38,630		38,788	3,039.0	1.00
65+	42,478		42,631	3,355.2	1.00
<b>Supplemental oxygen</b>					
6 Months - 4	20,797		21,006	1,637.8	1.01
5-17	53,185		53,565	4,201.0	1.01
18-49	90,928		91,245	7,106.0	1.00
50-64	37,138		37,291	2,889.7	1.00
65+	40,272		40,416	3,121.9	1.00

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Mechanical ventilation</b>					
6 Months - 4	21,176		21,401	1,681.0	1.01
5-17	53,807		54,197	4,267.2	1.01
18-49	92,728		93,062	7,301.3	1.00
50-64	38,630		38,788	3,045.4	1.00
65+	42,472		42,625	3,351.4	1.00
<b>Critical Care</b>					
6 Months - 4	21,171		21,396	1,677.3	1.01
5-17	53,796		54,186	4,262.7	1.01
18-49	92,670		93,004	7,268.2	1.00
50-64	38,559		38,717	3,005.6	1.00
65+	42,321		42,473	3,247.5	1.00
<b>Extracorporeal membrane oxygenation (ECMO)</b>					
6 Months - 4	21,176		21,401	1,681.1	1.01
5-17	53,807		54,197	4,267.4	1.01
18-49	92,729		93,063	7,303.4	1.00
50-64	38,635		38,793	3,049.4	1.00
65+	42,480		42,633	3,359.6	1.00
<b>Death</b>					
6 Months - 4	21,176		21,401	1,681.1	1.01
5-17	53,807		54,197	4,267.4	1.01
18-49	92,729		93,063	7,303.2	1.00
50-64	38,635		38,793	3,048.9	1.00
65+	42,478		42,631	3,354.9	1.00

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Discharge from hospital alive</b>					
6 Months - 4	21,170		21,395	1,676.5	1.01
5-17	53,806		54,196	4,262.1	1.01
18-49	92,698		93,032	7,259.4	1.00
50-64	38,578		38,736	3,001.1	1.00
65+	42,355		42,507	3,234.7	1.00
<b>ILI - Treated Day After Diagnosis</b>					
<b>Hospitalization</b>					
6 Months - 4	1,836		1,842	139.4	1.00
5-17	3,309		3,313	251.4	1.00
18-49	6,633		6,635	495.3	1.00
50-64	3,531		3,532	258.5	1.00
65+	5,808		5,812	418.5	1.00
<b>BiPAP</b>					
6 Months - 4	1,847		1,853	141.0	1.00
5-17	3,323		3,327	253.3	1.00
18-49	6,746		6,748	511.3	1.00
50-64	3,680		3,683	279.0	1.00
65+	6,264		6,268	475.0	1.00
<b>Supplemental oxygen</b>					
6 Months - 4	1,770		1,776	134.3	1.00
5-17	3,224		3,228	244.6	1.00
18-49	6,287		6,289	471.9	1.00
50-64	3,128		3,131	232.1	1.00
65+	5,135		5,138	379.9	1.00

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Mechanical ventilation</b>					
6 Months - 4	1,847		1,853	141.0	1.00
5-17	3,323		3,327	253.3	1.00
18-49	6,746		6,748	511.4	1.00
50-64	3,677		3,680	278.5	1.00
65+	6,252		6,256	472.6	1.00
<b>Critical Care</b>					
6 Months - 4	1,833		1,839	139.4	1.00
5-17	3,302		3,306	251.1	1.00
18-49	6,613		6,615	496.7	1.00
50-64	3,477		3,479	256.9	1.00
65+	5,724		5,728	417.1	1.00
<b>ECMO</b>					
6 Months - 4	1,847		1,853	141.0	1.00
5-17	3,323		3,327	253.3	1.00
18-49	6,751		6,753	512.4	1.00
50-64	3,679		3,682	279.6	1.00
65+	6,265		6,269	475.8	1.00
<b>Death</b>					
6 Months - 4	1,847		1,853	141.0	1.00
5-17	3,323		3,327	253.3	1.00
18-49	6,751		6,753	512.3	1.00
50-64	3,680		3,683	279.2	1.00
65+	6,265		6,269	474.3	1.00

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Discharge from hospital alive</b>					
6 Months - 4	1,840		1,846	140.1	1.00
5-17	3,309		3,313	251.7	1.00
18-49	6,635		6,637	496.0	1.00
50-64	3,533		3,534	259.4	1.00
65+	5,823		5,827	420.3	1.00
<b>ILI - Treated 1-5 Days After Diagnosis</b>					
<b>Hospitalization</b>					
6 Months - 4	2,140		2,148	161.2	1.00
5-17	3,941		3,947	297.1	1.00
18-49	8,024		8,027	592.1	1.00
50-64	4,765		4,768	342.2	1.00
65+	8,704		8,709	614.8	1.00
<b>BiPAP</b>					
6 Months - 4	2,208		2,216	167.1	1.00
5-17	4,019		4,025	303.6	1.00
18-49	8,918		8,922	665.7	1.00
50-64	6,498		6,505	478.5	1.00
65+	14,065		14,085	1,028.6	1.00
<b>Supplemental oxygen</b>					
6 Months - 4	2,096		2,104	157.6	1.00
5-17	3,881		3,886	291.7	1.00
18-49	8,228		8,231	607.3	1.00
50-64	5,452		5,458	391.4	1.00
65+	11,589		11,602	825.6	1.00

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Mechanical ventilation</b>					
6 Months - 4	2,205		2,213	166.9	1.00
5-17	4,017		4,023	303.5	1.00
18-49	8,898		8,902	664.4	1.00
50-64	6,437		6,443	473.6	1.00
65+	13,934		13,953	1,016.0	1.00
<b>Critical Care</b>					
6 Months - 4	2,161		2,169	163.1	1.00
5-17	3,949		3,955	297.9	1.00
18-49	8,083		8,086	600.1	1.00
50-64	4,866		4,871	352.1	1.00
65+	9,234		9,240	657.1	1.00
<b>ECMO</b>					
6 Months - 4	2,208		2,216	167.1	1.00
5-17	4,019		4,025	303.6	1.00
18-49	8,923		8,927	667.0	1.00
50-64	6,499		6,506	479.8	1.00
65+	14,067		14,087	1,030.2	1.00
<b>Death</b>					
6 Months - 4	2,208		2,216	167.1	1.00
5-17	4,019		4,025	303.6	1.00
18-49	8,923		8,927	666.8	1.00
50-64	6,499		6,506	479.2	1.00
65+	14,064		14,084	1,026.4	1.00

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Discharge from hospital alive</b>					
6 Months - 4	2,153		2,161	162.7	1.00
5-17	3,943		3,949	297.6	1.00
18-49	8,039		8,042	593.8	1.00
50-64	4,787		4,790	344.6	1.00
65+	8,815		8,820	623.7	1.00
<b>ILI - NOT Treated 0-5 Days After Diagnosis</b>					
<b>Hospitalization</b>					
6 Months - 4	20,857		21,375	1,383.2	0.00
5-17	51,023		51,698	3,363.0	0.00
18-49	81,942		83,219	5,349.1	0.00
50-64	40,833		42,118	2,685.2	0.00
65+	67,917		71,767	4,502.4	0.00
<b>BiPAP</b>					
6 Months - 4	21,045		21,567	1,397.9	0.00
5-17	51,227		51,908	3,379.8	0.00
18-49	83,929		85,280	5,505.9	0.00
50-64	44,908		46,354	2,987.6	0.00
65+	83,024		87,450	5,611.8	0.00
<b>Supplemental oxygen</b>					
6 Months - 4	20,417		20,906	1,350.9	0.00
5-17	50,301		50,950	3,311.0	0.00
18-49	80,860		82,132	5,285.2	0.00
50-64	41,884		43,233	2,761.5	0.00
65+	76,923		81,114	5,132.8	0.00

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Mechanical ventilation</b>					
6 Months - 4	21,032		21,553	1,397.0	0.00
5-17	51,211		51,891	3,378.8	0.00
18-49	83,679		85,009	5,492.3	0.00
50-64	44,226		45,638	2,943.9	0.00
65+	81,223		85,581	5,483.6	0.00
<b>Critical Care</b>					
6 Months - 4	20,929		21,446	1,388.8	0.00
5-17	51,081		51,754	3,368.2	0.00
18-49	81,838		83,110	5,350.3	0.00
50-64	40,407		41,670	2,662.7	0.00
65+	66,862		70,690	4,453.1	0.00
<b>ECMO</b>					
6 Months - 4	21,045		21,567	1,397.9	0.00
5-17	51,225		51,906	3,379.8	0.00
18-49	83,943		85,294	5,512.6	0.00
50-64	44,959		46,406	2,998.7	0.00
65+	83,054		87,481	5,618.4	0.00
<b>Death</b>					
6 Months - 4	21,045		21,567	1,397.9	0.00
5-17	51,226		51,907	3,379.9	0.00
18-49	83,921		85,272	5,510.6	0.00
50-64	44,841		46,288	2,986.3	0.00
65+	82,275		86,687	5,527.5	0.00

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Discharge from hospital alive</b>					
6 Months - 4	20,889		21,407	1,385.5	0.00
5-17	51,041		51,716	3,364.5	0.00
18-49	82,033		83,313	5,356.9	0.00
50-64	41,042		42,331	2,698.1	0.00
65+	68,845		72,709	4,556.8	0.00
<b>ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis</b>					
<b>Hospitalization</b>					
6 Months - 4	254		254		
5-17	285		285		
18-49	2,972		2,988		
50-64	6,012		6,040		
65+	21,011		21,104		
<b>BiPAP</b>					
6 Months - 4	0		0		
5-17	0		0		
18-49	44		44		
50-64	65		65		
65+	38		38		
<b>Supplemental oxygen</b>					
6 Months - 4	765		769		
5-17	1,084		1,088		
18-49	3,838		3,859		
50-64	4,195		4,218		
65+	8,782		8,834		

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Mechanical ventilation</b>					
6 Months - 4	17		17		
5-17	19		19		
18-49	339		340		
50-64	845		846		
65+	2,050		2,052		
<b>Critical Care</b>					
6 Months - 4	166		166		
5-17	220		220		
18-49	3,028		3,047		
50-64	6,326		6,378		
65+	21,554		21,687		
<b>ECMO</b>					
6 Months - 4	0		0		
5-17	*****		*****		
18-49	27		27		
50-64	*****		*****		
65+	*****		*****		
<b>Death</b>					
6 Months - 4	0		0		
5-17	*****		*****		
18-49	*****		*****		
50-64	143		143		
65+	902		902		

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Discharge from hospital alive</b>					
6 Months - 4	212		212		
5-17	265		265		
18-49	2,863		2,879		
50-64	5,771		5,799		
65+	19,944		20,031		
<b>ILI - Excluded: Outcome and Treatment, on Day of Diagnosis</b>					
<b>Hospitalization</b>					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	31		31		
50-64	58		58		
65+	137		137		
<b>BiPAP</b>					
6 Months - 4	0		0		
5-17	0		0		
18-49	*****		*****		
50-64	*****		*****		
65+	*****		*****		
<b>Supplemental oxygen</b>					
6 Months - 4	395		396		
5-17	632		632		
18-49	1,817		1,820		
50-64	1,500		1,502		
65+	2,217		2,217		

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Mechanical ventilation</b>					
6 Months - 4	0		0		
5-17	0		0		
18-49	*****		*****		
50-64	*****		*****		
65+	*****		*****		
<b>Critical Care</b>					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	59		59		
50-64	76		76		
65+	160		160		
<b>ECMO</b>					
6 Months - 4	0		0		
5-17	0		0		
18-49	0		0		
50-64	0		0		
65+	0		0		
<b>Death</b>					
6 Months - 4	0		0		
5-17	0		0		
18-49	0		0		
50-64	0		0		
65+	*****		*****		

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Discharge from hospital alive</b>					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	31		31		
50-64	57		57		
65+	126		126		
<b>ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis</b>					
<b>Hospitalization</b>					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	30		30		
50-64	31		31		
65+	100		100		
<b>BiPAP</b>					
6 Months - 4	0		0		
5-17	0		0		
18-49	*****		*****		
50-64	0		0		
65+	*****		*****		
<b>Supplemental oxygen</b>					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	45		45		
50-64	34		34		
65+	57		57		

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Mechanical ventilation</b>					
6 Months - 4	0		0		
5-17	0		0		
18-49	*****		*****		
50-64	*****		*****		
65+	*****		*****		
<b>Critical Care</b>					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	29		29		
50-64	51		51		
65+	108		108		
<b>ECMO</b>					
6 Months - 4	0		0		
5-17	0		0		
18-49	0		0		
50-64	*****		*****		
65+	0		0		
<b>Death</b>					
6 Months - 4	0		0		
5-17	0		0		
18-49	0		0		
50-64	*****		*****		
65+	*****		*****		

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Discharge from hospital alive</b>					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	26		26		
50-64	29		29		
65+	91		91		

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

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

Data are not presented in shaded cells due to their inability to be calculated.

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>ILI</b>						
<b>Total</b>						
6 Months - 4	3.16	5.91				1,671,739.8
5-17	3.00	5.59				5,744,439.1
18-49	2.78	5.05				18,074,948.8
50-64	2.52	5.00				11,194,503.0
65+	2.02	4.94				24,016,837.8
<b>Treated on Day of Diagnosis</b>						
6 Months - 4	6.00	5.94				
5-17	5.63	5.59				
18-49	5.08	5.06				
50-64	5.10	5.07				
65+	5.14	5.12				
<b>Treated Day After Diagnosis</b>						
6 Months - 4	5.79	5.77				
5-17	5.64	5.62				
18-49	5.10	5.10				
50-64	5.08	5.07				
65+	5.09	5.08				
<b>Treated 1-5 Days After Diagnosis</b>						
6 Months - 4	5.75	5.72				
5-17	5.62	5.60				
18-49	4.91	4.91				
50-64	4.54	4.54				
65+	4.41	4.40				

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>NOT Treated Within 5 Days of Diagnosis</b>						
6 Months - 4	0.00					
5-17	0.00					
18-49	0.00					
50-64	0.00					
65+	0.00					
<b>ILI - Treated Day of Diagnosis</b>						
<b>Hospitalization</b>						
6 Months - 4	6.00	5.94	113	5.28	67.49	
5-17	5.63	5.59	117	2.16	27.46	
18-49	5.08	5.06	860	9.24	118.51	
50-64	5.10	5.07	839	21.66	279.73	
65+	5.14	5.12	2,143	50.43	663.43	
<b>BiPAP</b>						
6 Months - 4	6.00	5.94	0	0.00	0.00	
5-17	5.63	5.59	*****	*****	*****	
18-49	5.08	5.06	*****	*****	*****	
50-64	5.10	5.07	265	6.83	87.20	
65+	5.14	5.12	119	2.79	35.47	
<b>Supplemental oxygen</b>						
6 Months - 4	6.00	5.94	263	12.52	160.58	
5-17	5.63	5.59	319	5.96	75.93	
18-49	5.08	5.06	954	10.46	134.25	
50-64	5.09	5.07	748	20.06	258.85	
65+	5.14	5.12	1,122	27.76	359.40	

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Mechanical ventilation</b>						
6 Months - 4	6.00	5.94	*****	*****	*****	
5-17	5.63	5.59	*****	*****	*****	
18-49	5.08	5.06	39	0.42	5.34	
50-64	5.10	5.07	63	1.62	20.69	
65+	5.14	5.12	137	3.21	40.88	
<b>Critical Care</b>						
6 Months - 4	6.00	5.94	60	2.80	35.77	
5-17	5.63	5.59	77	1.42	18.06	
18-49	5.08	5.06	576	6.19	79.25	
50-64	5.10	5.07	691	17.85	229.90	
65+	5.14	5.12	1,822	42.90	561.05	
<b>ECMO</b>						
6 Months - 4	6.00	5.94	0	0.00	0.00	
5-17	5.63	5.59	0	0.00	0.00	
18-49	5.08	5.06	*****	*****	*****	
50-64	5.10	5.07	*****	*****	*****	
65+	5.14	5.12	0	0.00	0.00	
<b>Death</b>						
6 Months - 4	6.00	5.94	*****	*****	*****	
5-17	5.63	5.59	*****	*****	*****	
18-49	5.08	5.06	*****	*****	*****	
50-64	5.10	5.07	23	0.59	7.54	
65+	5.14	5.12	146	3.42	43.52	

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Discharge from hospital alive</b>						
6 Months - 4	6.00	5.94	71	3.32	42.35	
5-17	5.63	5.59	96	1.77	22.52	
18-49	5.08	5.06	796	8.56	109.65	
50-64	5.10	5.07	801	20.68	266.90	
65+	5.14	5.12	2,069	48.67	639.63	
<b>ILI - Treated Day After Diagnosis</b>						
<b>Hospitalization</b>						
6 Months - 4	5.80	5.78	13	7.06	93.26	
5-17	5.63	5.61	17	5.13	67.62	
18-49	5.11	5.11	172	25.92	347.26	
50-64	5.10	5.10	187	52.94	723.40	
65+	5.13	5.12	446	76.74	1,065.71	
<b>BiPAP</b>						
6 Months - 4	5.79	5.77	0	0.00	0.00	
5-17	5.64	5.62	0	0.00	0.00	
18-49	5.10	5.10	20	2.96	39.12	
50-64	5.08	5.07	19	5.16	68.10	
65+	5.09	5.08	24	3.83	50.53	
<b>Supplemental oxygen</b>						
6 Months - 4	5.81	5.79	24	13.51	178.70	
5-17	5.64	5.62	21	6.51	85.85	
18-49	5.11	5.11	97	15.42	205.55	
50-64	5.08	5.07	99	31.62	426.54	
65+	5.12	5.12	181	35.23	476.44	

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Mechanical ventilation</b>						
6 Months - 4	5.79	5.77	0	0.00	0.00	
5-17	5.64	5.62	0	0.00	0.00	
18-49	5.10	5.10	*****	*****	*****	
50-64	5.08	5.07	*****	*****	*****	
65+	5.09	5.08	41	6.55	86.75	
<b>Critical Care</b>						
6 Months - 4	5.79	5.77	*****	*****	*****	
5-17	5.63	5.61	*****	*****	*****	
18-49	5.11	5.11	108	16.33	217.44	
50-64	5.10	5.10	146	41.97	568.31	
65+	5.13	5.12	365	63.72	875.09	
<b>ECMO</b>						
6 Months - 4	5.79	5.77	0	0.00	0.00	
5-17	5.64	5.62	0	0.00	0.00	
18-49	5.10	5.10	0	0.00	0.00	
50-64	5.08	5.07	0	0.00	0.00	
65+	5.09	5.08	0	0.00	0.00	
<b>Death</b>						
6 Months - 4	5.79	5.77	0	0.00	0.00	
5-17	5.64	5.62	0	0.00	0.00	
18-49	5.10	5.10	*****	*****	*****	
50-64	5.08	5.07	*****	*****	*****	
65+	5.09	5.08	57	9.09	120.18	

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Discharge from hospital alive</b>						
6 Months - 4	5.80	5.78	*****	*****	*****	
5-17	5.63	5.61	*****	*****	*****	
18-49	5.11	5.11	157	23.66	316.53	
50-64	5.10	5.10	169	47.82	651.50	
65+	5.13	5.12	430	73.79	1,023.08	
<b>ILI - Treated 1-5 Days After Diagnosis</b>						
<b>Hospitalization</b>						
6 Months - 4	5.78	5.75	18	8.38	111.66	
5-17	5.64	5.62	19	4.81	63.95	
18-49	5.05	5.05	234	29.15	395.20	
50-64	4.91	4.91	294	61.66	859.15	
65+	4.86	4.85	692	79.46	1,125.57	
<b>BiPAP</b>						
6 Months - 4	5.75	5.72	0	0.00	0.00	
5-17	5.62	5.60	0	0.00	0.00	
18-49	4.91	4.91	25	2.80	37.55	
50-64	4.54	4.54	37	5.69	77.32	
65+	4.41	4.40	48	3.41	46.67	
<b>Supplemental oxygen</b>						
6 Months - 4	5.78	5.75	31	14.73	196.70	
5-17	5.63	5.61	27	6.95	92.56	
18-49	4.92	4.92	152	18.47	250.29	
50-64	4.56	4.56	226	41.41	577.41	
65+	4.42	4.41	450	38.79	545.06	

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Mechanical ventilation</b>						
6 Months - 4	5.75	5.72	0	0.00	0.00	
5-17	5.62	5.60	0	0.00	0.00	
18-49	4.92	4.92	13	1.46	19.57	
50-64	4.56	4.55	41	6.36	86.57	
65+	4.41	4.40	97	6.95	95.47	
<b>Critical Care</b>						
6 Months - 4	5.76	5.74	11	5.07	67.44	
5-17	5.64	5.62	13	3.29	43.64	
18-49	5.04	5.03	146	18.06	243.29	
50-64	4.87	4.86	240	49.27	681.62	
65+	4.75	4.74	612	66.23	931.37	
<b>ECMO</b>						
6 Months - 4	5.75	5.72	0	0.00	0.00	
5-17	5.62	5.60	0	0.00	0.00	
18-49	4.91	4.91	0	0.00	0.00	
50-64	4.54	4.54	*****	*****	*****	
65+	4.41	4.40	0	0.00	0.00	
<b>Death</b>						
6 Months - 4	5.75	5.72	0	0.00	0.00	
5-17	5.62	5.60	0	0.00	0.00	
18-49	4.91	4.91	*****	*****	*****	
50-64	4.54	4.54	*****	*****	*****	
65+	4.41	4.40	140	9.94	136.40	

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Discharge from hospital alive</b>						
6 Months - 4	5.76	5.74	*****	*****	*****	
5-17	5.64	5.62	*****	*****	*****	
18-49	5.05	5.05	216	26.86	363.76	
50-64	4.90	4.90	273	56.99	792.22	
65+	4.84	4.84	668	75.74	1,071.03	
<b>ILI - NOT Treated 0-5 Days After Diagnosis</b>						
<b>Hospitalization</b>						
6 Months - 4	0.00		68	3.18	49.16	
5-17	0.00		82	1.59	24.38	
18-49	0.00		833	10.01	155.73	
50-64	0.00		1,087	25.81	404.81	
65+	0.00		3,345	46.61	742.94	
<b>BiPAP</b>						
6 Months - 4	0.00		0	0.00	0.00	
5-17	0.00		*****	*****	*****	
18-49	0.00		*****	*****	*****	
50-64	0.00		245	5.29	82.01	
65+	0.00		151	1.73	26.91	
<b>Supplemental oxygen</b>						
6 Months - 4	0.00		146	6.98	108.08	
5-17	0.00		168	3.30	50.74	
18-49	0.00		558	6.79	105.58	
50-64	0.00		819	18.94	296.58	
65+	0.00		2,054	25.32	400.17	

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Mechanical ventilation</b>						
6 Months - 4	0.00		*****	*****	*****	
5-17	0.00		*****	*****	*****	
18-49	0.00		79	0.93	14.38	
50-64	0.00		219	4.80	74.39	
65+	0.00		645	7.54	117.62	
<b>Critical Care</b>						
6 Months - 4	0.00		42	1.96	30.24	
5-17	0.00		45	0.87	13.36	
18-49	0.00		596	7.17	111.40	
50-64	0.00		933	22.39	350.40	
65+	0.00		2,947	41.69	661.79	
<b>ECMO</b>						
6 Months - 4	0.00		0	0.00	0.00	
5-17	0.00		0	0.00	0.00	
18-49	0.00		*****	*****	*****	
50-64	0.00		*****	*****	*****	
65+	0.00		*****	*****	*****	
<b>Death</b>						
6 Months - 4	0.00		*****	*****	*****	
5-17	0.00		*****	*****	*****	
18-49	0.00		77	0.90	13.97	
50-64	0.00		309	6.68	103.47	
65+	0.00		2,235	25.78	404.34	

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Discharge from hospital alive</b>						
6 Months - 4	0.00		56	2.62	40.42	
5-17	0.00		73	1.41	21.70	
18-49	0.00		760	9.12	141.87	
50-64	0.00		1,031	24.36	382.12	
65+	0.00		3,146	43.27	690.40	
<b>ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis</b>						
<b>Hospitalization</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
<b>BiPAP</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
<b>Supplemental oxygen</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Mechanical ventilation</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
<b>Critical Care</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
<b>ECMO</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
<b>Death</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Discharge from hospital alive</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
<b>ILI - Excluded: Outcome and Treatment, on Day of Diagnosis</b>						
<b>Hospitalization</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
<b>BiPAP</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
<b>Supplemental oxygen</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Mechanical ventilation</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
<b>Critical Care</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
<b>ECMO</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
<b>Death</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Discharge from hospital alive</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
<b>ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis</b>						
<b>Hospitalization</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
<b>BiPAP</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
<b>Supplemental oxygen</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Mechanical ventilation</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
<b>Critical Care</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
<b>ECMO</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
<b>Death</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						

**Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Age Group**

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Discharge from hospital alive</b>						
6 Months - 4						
5-17						
18-49						
50-64						
65+						

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

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

*Data are not presented in shaded cells due to their inability to be calculated.*

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>ILI</b>					
<b>Total</b>					
<i>2015</i>					
July	6,678	62,064,405	6,678	0.0	0.16
August	6,942	63,058,422	6,942	0.0	0.19
September	12,803	62,248,805	12,803	0.0	0.26
October	22,600	62,992,876	22,600	0.0	0.26
November	22,432	62,316,169	22,432	0.0	0.35
December	29,084	63,300,496	29,084	0.0	0.39
<i>2016</i>					
January	39,471	59,701,548	39,471	0.0	0.43
February	121,184	59,033,358	121,184	0.0	0.56
March	195,285	59,266,081	195,285	0.0	0.56
April	84,640	59,444,988	84,640	0.0	0.52
May	29,783	59,492,701	29,783	0.0	0.45
June	9,850	59,646,521	9,850	0.0	0.30
<b>Treated on Day of Diagnosis</b>					
<i>2015</i>					
July	893		893	70.4	1.00
August	1,115		1,115	88.1	1.00
September	2,951		2,951	233.0	1.00
October	5,320		5,320	420.0	1.00
November	7,117		7,117	561.6	1.00
December	10,130		10,130	777.5	1.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	15,060		15,060	1,189.4	1.00
February	58,674		58,674	4,632.5	1.00
March	96,203		96,203	7,603.9	1.00
April	38,294		38,294	3,027.7	1.00
May	11,778		11,778	930.8	1.00
June	2,552		2,552	126.2	1.00
<b>Treated Day After Diagnosis</b>					
<b>2015</b>					
July	87		87	6.7	1.00
August	106		106	8.1	1.00
September	278		278	21.3	1.00
October	351		351	26.8	1.00
November	451		451	34.5	1.00
December	750		750	56.0	1.00
<b>2016</b>					
January	1,173		1,173	89.6	1.00
February	5,496		5,496	419.0	1.00
March	8,471		8,471	646.4	1.00
April	3,441		3,441	262.7	1.00
May	1,058		1,058	80.7	1.00
June	223		223	10.5	1.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Treated 1-5 Days After Diagnosis</b>					
<i>2015</i>					
July	149		149	11.1	1.00
August	177		177	13.1	1.00
September	416		416	31.1	1.00
October	646		646	47.8	1.00
November	756		756	56.2	1.00
December	1,222		1,222	89.1	1.00
<i>2016</i>					
January	1,984		1,984	147.3	1.00
February	8,737		8,737	650.3	1.00
March	13,887		13,887	1,032.9	1.00
April	5,731		5,731	425.8	1.00
May	1,703		1,703	126.5	1.00
June	354		354	16.5	1.00
<b>NOT Treated Within 5 Days of Diagnosis</b>					
<i>2015</i>					
July	5,618		5,618	365.5	0.00
August	5,629		5,629	366.4	0.00
September	9,415		9,415	613.9	0.00
October	16,596		16,596	1,085.3	0.00
November	14,522		14,522	948.6	0.00
December	17,470		17,470	1,117.6	0.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	22,359		22,359	1,458.8	0.00
February	53,535		53,535	3,493.6	0.00
March	84,971		84,971	5,540.8	0.00
April	40,499		40,499	2,641.4	0.00
May	16,270		16,270	1,061.8	0.00
June	5,815		5,815	217.0	0.00
<b>ILI - Treated Day of Diagnosis</b>					
<b>Hospitalization</b>					
<b>2015</b>					
July	892		892	68.9	1.00
August	1,114		1,114	86.6	1.00
September	2,943		2,943	228.8	1.00
October	5,312		5,312	411.4	1.00
November	7,109		7,109	550.0	1.00
December	10,116		10,116	761.3	1.00
<b>2016</b>					
January	15,038		15,038	1,171.7	1.00
February	58,620		58,620	4,583.7	1.00
March	96,130		96,130	7,525.0	1.00
April	38,260		38,260	2,991.5	1.00
May	11,768		11,768	918.7	1.00
June	2,552		2,552	124.4	1.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Bilevel Positive Airway Pressure (BiPAP)</b>					
<i>2015</i>					
July	893		893	70.3	1.00
August	1,115		1,115	87.7	1.00
September	2,951		2,951	232.6	1.00
October	5,319		5,319	419.0	1.00
November	7,117		7,117	560.6	1.00
December	10,128		10,128	776.4	1.00
<i>2016</i>					
January	15,060		15,060	1,188.1	1.00
February	58,672		58,672	4,627.0	1.00
March	96,197		96,197	7,593.6	1.00
April	38,291		38,291	3,023.2	1.00
May	11,777		11,777	929.7	1.00
June	2,552		2,552	126.0	1.00
<b>Supplemental oxygen</b>					
<i>2015</i>					
July	872		872	68.4	1.00
August	1,085		1,085	85.0	1.00
September	2,884		2,884	225.4	1.00
October	5,181		5,181	403.1	1.00
November	6,935		6,935	539.4	1.00
December	9,865		9,865	747.3	1.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	14,654		14,654	1,143.7	1.00
February	57,112		57,112	4,468.6	1.00
March	93,666		93,666	7,335.5	1.00
April	37,273		37,273	2,917.9	1.00
May	11,500		11,500	899.9	1.00
June	2,496		2,496	122.2	1.00
<b>Mechanical ventilation</b>					
<b>2015</b>					
July	893		893	70.4	1.00
August	1,115		1,115	88.0	1.00
September	2,950		2,950	232.7	1.00
October	5,320		5,320	419.7	1.00
November	7,117		7,117	561.3	1.00
December	10,128		10,128	776.5	1.00
<b>2016</b>					
January	15,060		15,060	1,188.3	1.00
February	58,668		58,668	4,629.8	1.00
March	96,202		96,202	7,598.3	1.00
April	38,291		38,291	3,025.0	1.00
May	11,777		11,777	930.0	1.00
June	2,552		2,552	126.2	1.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Critical Care</b>					
<i>2015</i>					
July	892		892	69.2	1.00
August	1,114		1,114	86.9	1.00
September	2,941		2,941	229.2	1.00
October	5,309		5,309	412.6	1.00
November	7,102		7,102	551.9	1.00
December	10,119		10,119	764.4	1.00
<i>2016</i>					
January	15,041		15,041	1,173.7	1.00
February	58,593		58,593	4,592.3	1.00
March	96,099		96,099	7,537.0	1.00
April	38,246		38,246	2,998.5	1.00
May	11,768		11,768	920.9	1.00
June	2,552		2,552	124.6	1.00
<b>Extracorporeal membrane oxygenation (ECMO)</b>					
<i>2015</i>					
July	893		893	70.4	1.00
August	1,115		1,115	88.1	1.00
September	2,951		2,951	233.0	1.00
October	5,320		5,320	420.0	1.00
November	7,117		7,117	561.6	1.00
December	10,130		10,130	777.5	1.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	15,060		15,060	1,189.4	1.00
February	58,674		58,674	4,632.4	1.00
March	96,203		96,203	7,603.9	1.00
April	38,294		38,294	3,027.7	1.00
May	11,778		11,778	930.8	1.00
June	2,552		2,552	126.2	1.00
<b>Death</b>					
<b>2015</b>					
July	893		893	70.4	1.00
August	1,115		1,115	88.1	1.00
September	2,951		2,951	232.8	1.00
October	5,320		5,320	420.0	1.00
November	7,117		7,117	561.6	1.00
December	10,130		10,130	777.0	1.00
<b>2016</b>					
January	15,060		15,060	1,189.0	1.00
February	58,672		58,672	4,631.3	1.00
March	96,203		96,203	7,601.9	1.00
April	38,294		38,294	3,026.9	1.00
May	11,778		11,778	930.5	1.00
June	2,552		2,552	126.2	1.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Discharge from hospital alive</b>					
<i>2015</i>					
July	892		892	69.0	1.00
August	1,114		1,114	86.6	1.00
September	2,946		2,946	229.0	1.00
October	5,312		5,312	411.8	1.00
November	7,110		7,110	550.4	1.00
December	10,117		10,117	761.7	1.00
<i>2016</i>					
January	15,038		15,038	1,172.4	1.00
February	58,622		58,622	4,586.4	1.00
March	96,134		96,134	7,529.5	1.00
April	38,261		38,261	2,993.2	1.00
May	11,768		11,768	919.6	1.00
June	2,552		2,552	124.4	1.00
<b>ILI - Treated Day After Diagnosis</b>					
<b>Hospitalization</b>					
<i>2015</i>					
July	85		85	6.0	1.00
August	102		102	7.6	1.00
September	269		269	19.8	1.00
October	331		331	24.3	1.00
November	429		429	31.6	1.00
December	724		724	52.6	1.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	1,126		1,126	83.5	1.00
February	5,322		5,322	396.4	1.00
March	8,170		8,170	608.0	1.00
April	3,327		3,327	246.8	1.00
May	1,029		1,029	76.5	1.00
June	220		220	10.1	1.00
<b>BiPAP</b>					
<b>2015</b>					
July	87		87	6.6	1.00
August	106		106	8.0	1.00
September	278		278	21.3	1.00
October	351		351	26.8	1.00
November	450		450	34.4	1.00
December	750		750	56.0	1.00
<b>2016</b>					
January	1,173		1,173	89.4	1.00
February	5,493		5,493	418.5	1.00
March	8,471		8,471	645.6	1.00
April	3,439		3,439	262.0	1.00
May	1,058		1,058	80.6	1.00
June	223		223	10.4	1.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Supplemental oxygen</b>					
<i>2015</i>					
July	82		82	6.2	1.00
August	96		96	7.1	1.00
September	260		260	19.6	1.00
October	311		311	23.4	1.00
November	399		399	30.0	1.00
December	664		664	48.8	1.00
<i>2016</i>					
January	1,067		1,067	80.1	1.00
February	4,948		4,948	371.5	1.00
March	7,536		7,536	566.8	1.00
April	3,028		3,028	227.7	1.00
May	965		965	71.8	1.00
June	206		206	9.6	1.00
<b>Mechanical ventilation</b>					
<i>2015</i>					
July	87		87	6.7	1.00
August	106		106	8.1	1.00
September	278		278	21.3	1.00
October	351		351	26.8	1.00
November	449		449	34.3	1.00
December	749		749	55.9	1.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	1,172		1,172	89.1	1.00
February	5,493		5,493	418.3	1.00
March	8,460		8,460	643.6	1.00
April	3,438		3,438	261.9	1.00
May	1,058		1,058	80.5	1.00
June	223		223	10.5	1.00
<b>Critical Care</b>					
<b>2015</b>					
July	85		85	6.2	1.00
August	101		101	7.5	1.00
September	270		270	20.1	1.00
October	336		336	25.1	1.00
November	429		429	31.9	1.00
December	723		723	53.3	1.00
<b>2016</b>					
January	1,109		1,109	82.7	1.00
February	5,284		5,284	395.7	1.00
March	8,096		8,096	606.1	1.00
April	3,307		3,307	247.1	1.00
May	1,011		1,011	75.4	1.00
June	216		216	10.0	1.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>ECMO</b>					
<i>2015</i>					
July	87		87	6.7	1.00
August	106		106	8.1	1.00
September	278		278	21.3	1.00
October	351		351	26.8	1.00
November	451		451	34.5	1.00
December	750		750	56.0	1.00
<i>2016</i>					
January	1,173		1,173	89.6	1.00
February	5,496		5,496	419.0	1.00
March	8,470		8,470	646.4	1.00
April	3,441		3,441	262.7	1.00
May	1,058		1,058	80.7	1.00
June	223		223	10.5	1.00
<b>Death</b>					
<i>2015</i>					
July	87		87	6.7	1.00
August	106		106	8.1	1.00
September	278		278	21.3	1.00
October	351		351	26.8	1.00
November	451		451	34.4	1.00
December	750		750	55.9	1.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	1,173		1,173	89.4	1.00
February	5,496		5,496	418.4	1.00
March	8,471		8,471	645.8	1.00
April	3,441		3,441	262.4	1.00
May	1,058		1,058	80.7	1.00
June	223		223	10.5	1.00
<b>Discharge from hospital alive</b>					
<b>2015</b>					
July	85		85	6.0	1.00
August	102		102	7.6	1.00
September	269		269	19.8	1.00
October	331		331	24.3	1.00
November	429		429	31.6	1.00
December	724		724	52.7	1.00
<b>2016</b>					
January	1,126		1,126	83.6	1.00
February	5,327		5,327	397.4	1.00
March	8,181		8,181	609.6	1.00
April	3,332		3,332	248.2	1.00
May	1,031		1,031	76.8	1.00
June	220		220	10.1	1.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>ILI - Treated 1-5 Days After Diagnosis</b>					
<b>Hospitalization</b>					
<i>2015</i>					
July	113		113	8.0	1.00
August	144		144	10.5	1.00
September	336		336	24.5	1.00
October	476		476	34.4	1.00
November	588		588	42.6	1.00
December	943		943	66.8	1.00
<i>2016</i>					
January	1,499		1,499	109.6	1.00
February	6,902		6,902	506.2	1.00
March	10,606		10,606	775.9	1.00
April	4,361		4,361	318.3	1.00
May	1,335		1,335	97.2	1.00
June	296		296	13.4	1.00
<b>BiPAP</b>					
<i>2015</i>					
July	149		149	10.9	1.00
August	177		177	13.1	1.00
September	416		416	31.1	1.00
October	646		646	47.8	1.00
November	755		755	56.2	1.00
December	1,222		1,222	89.0	1.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	1,984		1,984	147.0	1.00
February	8,734		8,734	649.6	1.00
March	13,884		13,884	1,031.1	1.00
April	5,729		5,729	425.0	1.00
May	1,703		1,703	126.3	1.00
June	354		354	16.5	1.00
<b>Supplemental oxygen</b>					
<b>2015</b>					
July	135		135	9.9	1.00
August	156		156	11.3	1.00
September	380		380	27.9	1.00
October	560		560	40.9	1.00
November	662		662	48.5	1.00
December	1,067		1,067	76.4	1.00
<b>2016</b>					
January	1,764		1,764	129.1	1.00
February	7,714		7,714	564.1	1.00
March	12,065		12,065	880.9	1.00
April	4,946		4,946	360.4	1.00
May	1,518		1,518	109.5	1.00
June	314		314	14.6	1.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Mechanical ventilation</b>					
<i>2015</i>					
July	148		148	11.0	1.00
August	175		175	13.0	1.00
September	415		415	31.1	1.00
October	640		640	47.3	1.00
November	752		752	55.6	1.00
December	1,218		1,218	88.4	1.00
<i>2016</i>					
January	1,968		1,968	145.5	1.00
February	8,684		8,684	645.5	1.00
March	13,806		13,806	1,023.7	1.00
April	5,684		5,684	421.6	1.00
May	1,692		1,692	125.4	1.00
June	352		352	16.4	1.00
<b>Critical Care</b>					
<i>2015</i>					
July	115		115	8.3	1.00
August	136		136	9.9	1.00
September	352		352	25.9	1.00
October	487		487	35.8	1.00
November	602		602	43.8	1.00
December	970		970	69.9	1.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	1,528		1,528	111.9	1.00
February	7,060		7,060	519.1	1.00
March	10,933		10,933	804.2	1.00
April	4,494		4,494	329.2	1.00
May	1,358		1,358	98.9	1.00
June	286		286	13.2	1.00
<b>ECMO</b>					
<b>2015</b>					
July	149		149	11.1	1.00
August	177		177	13.1	1.00
September	416		416	31.1	1.00
October	646		646	47.8	1.00
November	756		756	56.2	1.00
December	1,222		1,222	89.1	1.00
<b>2016</b>					
January	1,984		1,984	147.3	1.00
February	8,737		8,737	650.3	1.00
March	13,886		13,886	1,032.8	1.00
April	5,731		5,731	425.8	1.00
May	1,703		1,703	126.5	1.00
June	354		354	16.5	1.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Death</b>					
<i>2015</i>					
July	149		149	11.1	1.00
August	177		177	13.1	1.00
September	416		416	31.1	1.00
October	646		646	47.8	1.00
November	756		756	56.0	1.00
December	1,222		1,222	88.9	1.00
<i>2016</i>					
January	1,984		1,984	146.9	1.00
February	8,736		8,736	649.0	1.00
March	13,885		13,885	1,031.3	1.00
April	5,730		5,730	425.0	1.00
May	1,703		1,703	126.4	1.00
June	354		354	16.4	1.00
<b>Discharge from hospital alive</b>					
<i>2015</i>					
July	115		115	8.1	1.00
August	148		148	10.8	1.00
September	342		342	24.9	1.00
October	480		480	34.8	1.00
November	593		593	42.9	1.00
December	954		954	67.7	1.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	1,501		1,501	109.8	1.00
February	6,941		6,941	509.8	1.00
March	10,660		10,660	780.8	1.00
April	4,390		4,390	321.5	1.00
May	1,341		1,341	97.9	1.00
June	297		297	13.5	1.00
<b>ILI - NOT Treated 0-5 Days After Diagnosis</b>					
<b>Hospitalization</b>					
<b>2015</b>					
July	5,017		5,017	319.9	0.00
August	5,046		5,046	322.4	0.00
September	8,614		8,614	551.3	0.00
October	15,640		15,640	1,009.3	0.00
November	13,537		13,537	873.5	0.00
December	16,182		16,182	1,022.8	0.00
<b>2016</b>					
January	20,629		20,629	1,330.4	0.00
February	49,508		49,508	3,206.1	0.00
March	78,216		78,216	5,063.6	0.00
April	37,309		37,309	2,410.4	0.00
May	15,119		15,119	976.1	0.00
June	5,360		5,360	197.2	0.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>BiPAP</b>					
<i>2015</i>					
July	5,617		5,617	365.1	0.00
August	5,624		5,624	365.8	0.00
September	9,408		9,408	613.1	0.00
October	16,587		16,587	1,083.6	0.00
November	14,513		14,513	947.2	0.00
December	17,462		17,462	1,115.3	0.00
<i>2016</i>					
January	22,344		22,344	1,456.9	0.00
February	53,525		53,525	3,489.6	0.00
March	84,929		84,929	5,532.8	0.00
April	40,475		40,475	2,636.4	0.00
May	16,262		16,262	1,060.6	0.00
June	5,813		5,813	216.8	0.00
<b>Supplemental oxygen</b>					
<i>2015</i>					
July	5,406		5,406	347.8	0.00
August	5,397		5,397	348.4	0.00
September	9,028		9,028	583.1	0.00
October	15,929		15,929	1,035.4	0.00
November	13,825		13,825	896.5	0.00
December	16,615		16,615	1,053.9	0.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	21,183		21,183	1,370.9	0.00
February	50,917		50,917	3,297.8	0.00
March	80,545		80,545	5,213.1	0.00
April	38,409		38,409	2,483.0	0.00
May	15,514		15,514	1,005.6	0.00
June	5,567		5,567	206.0	0.00
<b>Mechanical ventilation</b>					
<b>2015</b>					
July	5,548		5,548	359.5	0.00
August	5,560		5,560	360.7	0.00
September	9,332		9,332	606.9	0.00
October	16,505		16,505	1,078.2	0.00
November	14,422		14,422	940.6	0.00
December	17,320		17,320	1,106.7	0.00
<b>2016</b>					
January	22,148		22,148	1,443.6	0.00
February	52,961		52,961	3,454.4	0.00
March	83,877		83,877	5,465.8	0.00
April	40,080		40,080	2,612.1	0.00
May	16,155		16,155	1,052.4	0.00
June	5,764		5,764	214.7	0.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Critical Care</b>					
<i>2015</i>					
July	4,864		4,864	311.3	0.00
August	4,935		4,935	315.9	0.00
September	8,512		8,512	547.0	0.00
October	15,592		15,592	1,008.8	0.00
November	13,488		13,488	872.1	0.00
December	16,144		16,144	1,021.7	0.00
<i>2016</i>					
January	20,497		20,497	1,326.3	0.00
February	49,228		49,228	3,193.0	0.00
March	77,898		77,898	5,052.1	0.00
April	37,172		37,172	2,406.9	0.00
May	15,017		15,017	972.3	0.00
June	5,323		5,323	195.8	0.00
<b>ECMO</b>					
<i>2015</i>					
July	5,617		5,617	365.4	0.00
August	5,628		5,628	366.3	0.00
September	9,415		9,415	613.9	0.00
October	16,595		16,595	1,085.3	0.00
November	14,522		14,522	948.6	0.00
December	17,470		17,470	1,117.6	0.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	22,356		22,356	1,458.6	0.00
February	53,522		53,522	3,492.7	0.00
March	84,954		84,954	5,539.6	0.00
April	40,491		40,491	2,640.9	0.00
May	16,270		16,270	1,061.8	0.00
June	5,814		5,814	216.9	0.00
<b>Death</b>					
<b>2015</b>					
July	5,581		5,581	361.2	0.00
August	5,590		5,590	362.4	0.00
September	9,374		9,374	609.2	0.00
October	16,546		16,546	1,079.9	0.00
November	14,492		14,492	944.9	0.00
December	17,411		17,411	1,112.2	0.00
<b>2016</b>					
January	22,279		22,279	1,449.5	0.00
February	53,404		53,404	3,477.9	0.00
March	84,676		84,676	5,508.6	0.00
April	40,348		40,348	2,624.3	0.00
May	16,223		16,223	1,056.6	0.00
June	5,797		5,797	215.6	0.00

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Discharge from hospital alive</b>					
<i>2015</i>					
July	5,053		5,053	322.0	0.00
August	5,077		5,077	324.2	0.00
September	8,644		8,644	553.7	0.00
October	15,697		15,697	1,013.1	0.00
November	13,582		13,582	876.7	0.00
December	16,261		16,261	1,027.5	0.00
<i>2016</i>					
January	20,732		20,732	1,337.0	0.00
February	49,735		49,735	3,219.2	0.00
March	78,626		78,626	5,087.2	0.00
April	37,511		37,511	2,423.2	0.00
May	15,175		15,175	979.8	0.00
June	5,383		5,383	198.2	0.00
<b>ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis</b>					
<b>Hospitalization</b>					
<i>2015</i>					
July	639		639		
August	617		617		
September	881		881		
October	1,120		1,120		
November	1,150		1,150		
December	1,570		1,570		

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	2,211		2,211		
February	5,847		5,847		
March	9,976		9,976		
April	4,543		4,543		
May	1,510		1,510		
June	607		607		
<b>BiPAP</b>					
<b>2015</b>					
July	*****		*****		
August	*****		*****		
September	*****		*****		
October	*****		*****		
November	*****		*****		
December	*****		*****		
<b>2016</b>					
January	15		15		
February	13		13		
March	44		44		
April	24		24		
May	*****		*****		
June	*****		*****		

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Supplemental oxygen</b>					
<i>2015</i>					
July	226		226		
August	256		256		
September	424		424		
October	753		753		
November	792		792		
December	1,017		1,017		
<i>2016</i>					
January	1,392		1,392		
February	3,602		3,602		
March	6,185		6,185		
April	2,851		2,851		
May	943		943		
June	327		327		
<b>Mechanical ventilation</b>					
<i>2015</i>					
July	71		71		
August	72		72		
September	85		85		
October	98		98		
November	104		104		
December	159		159		

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	227		227		
February	627		627		
March	1,174		1,174		
April	467		467		
May	126		126		
June	64		64		
<b>Critical Care</b>					
<b>2015</b>					
July	791		791		
August	738		738		
September	967		967		
October	1,163		1,163		
November	1,193		1,193		
December	1,585		1,585		
<b>2016</b>					
January	2,310		2,310		
February	5,966		5,966		
March	9,989		9,989		
April	4,551		4,551		
May	1,589		1,589		
June	656		656		

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>ECMO</b>					
<i>2015</i>					
July	*****		*****		
August	*****		*****		
September	0		0		
October	*****		*****		
November	0		0		
December	0		0		
<i>2016</i>					
January	*****		*****		
February	13		13		
March	17		17		
April	*****		*****		
May	0		0		
June	*****		*****		
<b>Death</b>					
<i>2015</i>					
July	42		42		
August	46		46		
September	44		44		
October	60		60		
November	38		38		
December	68		68		

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	87		87		
February	152		152		
March	326		326		
April	170		170		
May	48		48		
June	21		21		
<b>Discharge from hospital alive</b>					
<b>2015</b>					
July	601		601		
August	580		580		
September	844		844		
October	1,057		1,057		
November	1,099		1,099		
December	1,478		1,478		
<b>2016</b>					
January	2,103		2,103		
February	5,576		5,576		
March	9,513		9,513		
April	4,311		4,311		
May	1,450		1,450		
June	574		574		

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>ILI - Excluded: Outcome and Treatment, on Day of Diagnosis</b>					
<b>Hospitalization</b>					
<i>2015</i>					
July	*****		*****		
August	*****		*****		
September	*****		*****		
October	*****		*****		
November	*****		*****		
December	14		14		
<i>2016</i>					
January	22		22		
February	54		54		
March	73		73		
April	*****		*****		
May	*****		*****		
June	0		0		
<b>BiPAP</b>					
<i>2015</i>					
July	0		0		
August	0		0		
September	0		0		
October	*****		*****		
November	0		0		
December	*****		*****		

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	0		0		
February	*****		*****		
March	*****		*****		
April	*****		*****		
May	*****		*****		
June	0		0		
<b>Supplemental oxygen</b>					
<b>2015</b>					
July	21		21		
August	30		30		
September	67		67		
October	139		139		
November	182		182		
December	265		265		
<b>2016</b>					
January	406		406		
February	1,562		1,562		
March	2,539		2,539		
April	1,021		1,021		
May	278		278		
June	57		57		

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Mechanical ventilation</b>					
<i>2015</i>					
July	0		0		
August	0		0		
September	*****		*****		
October	0		0		
November	0		0		
December	*****		*****		
<i>2016</i>					
January	0		0		
February	*****		*****		
March	*****		*****		
April	*****		*****		
May	*****		*****		
June	0		0		
<b>Critical Care</b>					
<i>2015</i>					
July	*****		*****		
August	*****		*****		
September	*****		*****		
October	11		11		
November	15		15		
December	11		11		

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	19		19		
February	81		81		
March	104		104		
April	*****		*****		
May	*****		*****		
June	0		0		
<b>ECMO</b>					
<b>2015</b>					
July	0		0		
August	0		0		
September	0		0		
October	0		0		
November	0		0		
December	0		0		
<b>2016</b>					
January	0		0		
February	0		0		
March	0		0		
April	0		0		
May	0		0		
June	0		0		

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Death</b>					
<i>2015</i>					
July	0		0		
August	0		0		
September	0		0		
October	0		0		
November	0		0		
December	0		0		
<i>2016</i>					
January	0		0		
February	*****		*****		
March	0		0		
April	0		0		
May	0		0		
June	0		0		
<b>Discharge from hospital alive</b>					
<i>2015</i>					
July	*****		*****		
August	*****		*****		
September	*****		*****		
October	*****		*****		
November	*****		*****		
December	13		13		

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	22		22		
February	52		52		
March	69		69		
April	*****		*****		
May	*****		*****		
June	0		0		
<b>ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis</b>					
<b>Hospitalization</b>					
<b>2015</b>					
July	0		0		
August	*****		*****		
September	*****		*****		
October	*****		*****		
November	*****		*****		
December	*****		*****		
<b>2016</b>					
January	*****		*****		
February	*****		*****		
March	75		75		
April	26		26		
May	11		11		
June	0		0		

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>BiPAP</b>					
<i>2015</i>					
July	0		0		
August	0		0		
September	0		0		
October	0		0		
November	0		0		
December	0		0		
<i>2016</i>					
January	0		0		
February	0		0		
March	*****		*****		
April	*****		*****		
May	0		0		
June	0		0		
<b>Supplemental oxygen</b>					
<i>2015</i>					
July	0		0		
August	0		0		
September	*****		*****		
October	*****		*****		
November	*****		*****		
December	*****		*****		

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	*****		*****		
February	46		46		
March	68		68		
April	29		29		
May	0		0		
June	*****		*****		
<b>Mechanical ventilation</b>					
<b>2015</b>					
July	0		0		
August	0		0		
September	0		0		
October	0		0		
November	*****		*****		
December	0		0		
<b>2016</b>					
January	*****		*****		
February	*****		*****		
March	*****		*****		
April	*****		*****		
May	0		0		
June	0		0		

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Critical Care</b>					
<i>2015</i>					
July	0		0		
August	*****		*****		
September	*****		*****		
October	*****		*****		
November	*****		*****		
December	*****		*****		
<i>2016</i>					
January	13		13		
February	44		44		
March	75		75		
April	31		31		
May	*****		*****		
June	*****		*****		
<b>ECMO</b>					
<i>2015</i>					
July	0		0		
August	0		0		
September	0		0		
October	0		0		
November	0		0		
December	0		0		

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>2016</b>					
January	0		0		
February	0		0		
March	*****		*****		
April	0		0		
May	0		0		
June	0		0		
<b>Death</b>					
<b>2015</b>					
July	0		0		
August	0		0		
September	0		0		
October	0		0		
November	0		0		
December	0		0		
<b>2016</b>					
January	0		0		
February	*****		*****		
March	*****		*****		
April	*****		*****		
May	0		0		
June	0		0		

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Members with a Diagnosis	Eligible Members <sup>1</sup>	New Diagnoses	Years at Risk	Dispensings per Member
<b>Discharge from hospital alive</b>					
<i>2015</i>					
July	0		0		
August	*****		*****		
September	*****		*****		
October	*****		*****		
November	*****		*****		
December	*****		*****		
<i>2016</i>					
January	*****		*****		
February	29		29		
March	67		67		
April	22		22		
May	*****		*****		
June	0		0		

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

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

Data are not presented in shaded cells due to their inability to be calculated.

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Total</b>						
<i>2015</i>						
July	0.79	5.09				5,228,443.4
August	0.95	5.08				5,260,701.5
September	1.35	5.14				5,104,327.6
October	1.39	5.26				5,273,736.3
November	1.83	5.21				5,108,543.6
December	2.03	5.19				5,280,820.9
<i>2016</i>						
January	2.23	5.17				4,990,209.9
February	2.91	5.22				4,672,472.6
March	2.93	5.19				4,996,752.1
April	2.70	5.19				4,861,727.5
May	2.35	5.19				5,034,138.9
June	1.57	5.22				4,890,594.1
<b>Treated on Day of Diagnosis</b>						
<i>2015</i>						
July	5.20	5.20				
August	5.16	5.16				
September	5.21	5.20				
October	5.23	5.22				
November	5.25	5.25				
December	5.24	5.24				

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January	5.23	5.23				
February	5.28	5.28				
March	5.27	5.26				
April	5.27	5.27				
May	5.26	5.26				
June	5.29	5.28				
<b>Treated Day After Diagnosis</b>						
<b>2015</b>						
July	5.02	5.02				
August	4.89	4.89				
September	5.10	5.10				
October	6.64	6.64				
November	5.14	5.14				
December	5.27	5.27				
<b>2016</b>						
January	5.19	5.18				
February	5.28	5.27				
March	5.19	5.19				
April	5.17	5.17				
May	5.15	5.13				
June	5.15	5.15				

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Treated 1-5 Days After Diagnosis</b>						
<i>2015</i>						
July	4.46	4.46				
August	4.58	4.58				
September	4.74	4.74				
October	5.58	5.58				
November	4.81	4.81				
December	4.85	4.85				
<i>2016</i>						
January	4.76	4.76				
February	4.87	4.87				
March	4.71	4.71				
April	4.67	4.67				
May	4.77	4.76				
June	4.78	4.78				
<b>NOT Treated Within 5 Days of Diagnosis</b>						
<i>2015</i>						
July	0.00					
August	0.00					
September	0.00					
October	0.00					
November	0.00					
December	0.00					

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January	0.00					
February	0.00					
March	0.00					
April	0.00					
May	0.00					
June	0.00					
<b>ILI - Treated Day of Diagnosis</b>						
<b>Hospitalization</b>						
<b>2015</b>						
July	5.20	5.20	23	25.78	333.82	
August	5.16	5.16	26	23.34	300.23	
September	5.21	5.20	64	21.75	279.72	
October	5.23	5.22	146	27.48	354.89	
November	5.25	5.25	189	26.59	343.64	
December	5.24	5.24	283	27.98	371.73	
<b>2016</b>						
January	5.23	5.23	288	19.15	245.80	
February	5.28	5.28	838	14.30	182.82	
March	5.27	5.26	1,367	14.22	181.66	
April	5.27	5.27	605	15.81	202.24	
May	5.26	5.26	193	16.40	210.08	
June	5.29	5.28	50	19.59	401.93	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Bilevel Positive Airway Pressure (BiPAP)</b>						
<i>2015</i>						
July	5.20	5.20	*****	*****	*****	
August	5.16	5.16	*****	*****	*****	
September	5.21	5.20	*****	*****	*****	
October	5.23	5.22	25	4.70	59.67	
November	5.25	5.25	32	4.50	57.08	
December	5.24	5.24	24	2.37	30.91	
<i>2016</i>						
January	5.23	5.23	33	2.19	27.78	
February	5.28	5.28	133	2.27	28.74	
March	5.27	5.26	252	2.62	33.19	
April	5.27	5.27	104	2.72	34.40	
May	5.26	5.26	*****	*****	*****	
June	5.29	5.28	*****	*****	*****	
<b>Supplemental oxygen</b>						
<i>2015</i>						
July	5.21	5.21	*****	*****	*****	
August	5.17	5.17	*****	*****	*****	
September	5.21	5.20	38	13.18	168.59	
October	5.23	5.22	108	20.85	267.92	
November	5.25	5.25	148	21.34	274.38	
December	5.24	5.24	184	18.65	246.22	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January	5.23	5.23	251	17.13	219.46	
February	5.28	5.28	748	13.10	167.39	
March	5.27	5.27	1,217	12.99	165.91	
April	5.28	5.27	511	13.71	175.13	
May	5.26	5.26	153	13.30	170.02	
June	5.29	5.29	28	11.22	229.13	
<b>Mechanical ventilation</b>						
<b>2015</b>						
July	5.20	5.20	*****	*****	*****	
August	5.16	5.16	*****	*****	*****	
September	5.21	5.20	*****	*****	*****	
October	5.23	5.22	*****	*****	*****	
November	5.25	5.25	*****	*****	*****	
December	5.24	5.24	15	1.48	19.32	
<b>2016</b>						
January	5.23	5.23	17	1.13	14.31	
February	5.28	5.28	39	0.66	8.42	
March	5.27	5.26	100	1.04	13.16	
April	5.27	5.27	42	1.10	13.88	
May	5.26	5.26	*****	*****	*****	
June	5.29	5.28	*****	*****	*****	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Critical Care</b>						
<i>2015</i>						
July	5.20	5.20	21	23.54	303.47	
August	5.16	5.16	20	17.95	230.15	
September	5.21	5.20	55	18.70	239.97	
October	5.23	5.22	125	23.54	302.96	
November	5.25	5.25	153	21.54	277.22	
December	5.24	5.24	228	22.53	298.27	
<i>2016</i>						
January	5.23	5.23	244	16.22	207.89	
February	5.28	5.28	640	10.92	139.36	
March	5.27	5.26	1,089	11.33	144.49	
April	5.27	5.27	446	11.66	148.74	
May	5.26	5.26	161	13.68	174.83	
June	5.29	5.28	44	17.24	353.13	
<b>Extracorporeal membrane oxygenation (ECMO)</b>						
<i>2015</i>						
July	5.20	5.20	0	0.00	0.00	
August	5.16	5.16	0	0.00	0.00	
September	5.21	5.20	0	0.00	0.00	
October	5.23	5.22	0	0.00	0.00	
November	5.25	5.25	*****	*****	*****	
December	5.24	5.24	0	0.00	0.00	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January	5.23	5.23	0	0.00	0.00	
February	5.28	5.28	*****	*****	*****	
March	5.27	5.26	*****	*****	*****	
April	5.27	5.27	0	0.00	0.00	
May	5.26	5.26	0	0.00	0.00	
June	5.29	5.28	0	0.00	0.00	
<b>Death</b>						
<b>2015</b>						
July	5.20	5.20	*****	*****	*****	
August	5.16	5.16	*****	*****	*****	
September	5.21	5.20	*****	*****	*****	
October	5.23	5.22	*****	*****	*****	
November	5.25	5.25	*****	*****	*****	
December	5.24	5.24	12	1.18	15.44	
<b>2016</b>						
January	5.23	5.23	12	0.80	10.09	
February	5.28	5.28	35	0.60	7.56	
March	5.27	5.26	65	0.68	8.55	
April	5.27	5.27	*****	*****	*****	
May	5.26	5.26	*****	*****	*****	
June	5.29	5.28	0	0.00	0.00	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Discharge from hospital alive</b>						
<i>2015</i>						
July	5.20	5.20	22	24.66	318.84	
August	5.16	5.16	25	22.44	288.68	
September	5.21	5.20	62	21.05	270.74	
October	5.23	5.22	139	26.17	337.54	
November	5.25	5.25	182	25.60	330.67	
December	5.24	5.24	270	26.69	354.47	
<i>2016</i>						
January	5.23	5.23	271	18.02	231.15	
February	5.28	5.28	785	13.39	171.16	
March	5.27	5.26	1,282	13.34	170.26	
April	5.27	5.27	572	14.95	191.10	
May	5.26	5.26	176	14.96	191.39	
June	5.29	5.28	47	18.42	377.81	
<b>ILI - Treated Day After Diagnosis</b>						
<b>Hospitalization</b>						
<i>2015</i>						
July	5.04	5.04	*****	*****	*****	
August	4.92	4.92	*****	*****	*****	
September	5.15	5.15	21	78.07	1,060.61	
October	6.78	6.78	20	60.42	823.05	
November	5.18	5.18	22	51.28	696.20	
December	5.29	5.29	32	44.20	608.37	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January	5.18	5.17	46	40.85	550.90	
February	5.30	5.29	191	35.89	481.84	
March	5.22	5.21	310	37.94	509.87	
April	5.18	5.18	131	39.37	530.79	
May	5.16	5.15	*****	*****	*****	
June	5.16	5.16	*****	*****	*****	
<b>BiPAP</b>						
<b>2015</b>						
July	5.02	5.02	*****	*****	*****	
August	4.89	4.89	*****	*****	*****	
September	5.10	5.10	*****	*****	*****	
October	6.64	6.64	0	0.00	0.00	
November	5.14	5.14	0	0.00	0.00	
December	5.27	5.27	*****	*****	*****	
<b>2016</b>						
January	5.19	5.18	*****	*****	*****	
February	5.27	5.27	*****	*****	*****	
March	5.19	5.19	27	3.19	41.82	
April	5.17	5.17	13	3.78	49.62	
May	5.15	5.13	*****	*****	*****	
June	5.15	5.15	*****	*****	*****	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Supplemental oxygen</b>						
<i>2015</i>						
July	5.04	5.04	*****	*****	*****	
August	4.91	4.91	*****	*****	*****	
September	5.11	5.11	*****	*****	*****	
October	6.88	6.88	*****	*****	*****	
November	5.15	5.15	*****	*****	*****	
December	5.33	5.33	18	27.11	368.85	
<i>2016</i>						
January	5.20	5.19	25	23.43	312.11	
February	5.30	5.29	98	19.81	263.80	
March	5.21	5.21	158	20.97	278.76	
April	5.20	5.20	61	20.15	267.90	
May	5.16	5.15	*****	*****	*****	
June	5.04	5.04	*****	*****	*****	
<b>Mechanical ventilation</b>						
<i>2015</i>						
July	5.02	5.02	0	0.00	0.00	
August	4.89	4.89	0	0.00	0.00	
September	5.10	5.10	0	0.00	0.00	
October	6.64	6.64	*****	*****	*****	
November	5.14	5.14	0	0.00	0.00	
December	5.27	5.27	*****	*****	*****	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January	5.18	5.18	*****	*****	*****	
February	5.28	5.27	12	2.18	28.69	
March	5.20	5.19	36	4.26	55.94	
April	5.18	5.17	*****	*****	*****	
May	5.15	5.13	*****	*****	*****	
June	5.15	5.15	0	0.00	0.00	
<b>Critical Care</b>						
<b>2015</b>						
July	5.05	5.05	*****	*****	*****	
August	4.92	4.92	*****	*****	*****	
September	5.12	5.12	13	48.15	646.77	
October	6.71	6.71	14	41.67	557.77	
November	5.17	5.17	18	41.96	564.26	
December	5.30	5.30	23	31.81	431.52	
<b>2016</b>						
January	5.18	5.18	40	36.07	483.68	
February	5.30	5.29	147	27.82	371.49	
March	5.22	5.21	243	30.01	400.92	
April	5.18	5.18	95	28.73	384.46	
May	5.18	5.16	*****	*****	*****	
June	5.16	5.16	*****	*****	*****	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>ECMO</b>						
<i>2015</i>						
July	5.02	5.02	0	0.00	0.00	
August	4.89	4.89	0	0.00	0.00	
September	5.10	5.10	0	0.00	0.00	
October	6.64	6.64	0	0.00	0.00	
November	5.14	5.14	0	0.00	0.00	
December	5.27	5.27	0	0.00	0.00	
<i>2016</i>						
January	5.19	5.18	0	0.00	0.00	
February	5.28	5.27	0	0.00	0.00	
March	5.20	5.19	0	0.00	0.00	
April	5.17	5.17	0	0.00	0.00	
May	5.15	5.13	0	0.00	0.00	
June	5.15	5.15	0	0.00	0.00	
<b>Death</b>						
<i>2015</i>						
July	5.02	5.02	0	0.00	0.00	
August	4.89	4.89	0	0.00	0.00	
September	5.10	5.10	0	0.00	0.00	
October	6.64	6.64	*****	*****	*****	
November	5.14	5.14	*****	*****	*****	
December	5.27	5.27	*****	*****	*****	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January	5.19	5.18	*****	*****	*****	
February	5.28	5.27	18	3.28	43.02	
March	5.19	5.19	28	3.31	43.36	
April	5.17	5.17	11	3.20	41.92	
May	5.15	5.13	*****	*****	*****	
June	5.15	5.15	0	0.00	0.00	
<b>Discharge from hospital alive</b>						
<b>2015</b>						
July	5.04	5.04	*****	*****	*****	
August	4.92	4.92	*****	*****	*****	
September	5.15	5.15	21	78.07	1,060.61	
October	6.78	6.78	20	60.42	823.05	
November	5.18	5.18	22	51.28	696.20	
December	5.29	5.29	29	40.06	550.28	
<b>2016</b>						
January	5.18	5.17	45	39.96	538.28	
February	5.30	5.29	178	33.41	447.91	
March	5.22	5.22	287	35.08	470.80	
April	5.18	5.18	112	33.61	451.25	
May	5.16	5.15	*****	*****	*****	
June	5.16	5.16	*****	*****	*****	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>ILI - Treated 1-5 Days After Diagnosis</b>						
<b>Hospitalization</b>						
<i>2015</i>						
July	4.87	4.87	*****	*****	*****	
August	4.81	4.81	*****	*****	*****	
September	5.06	5.06	25	74.40	1,020.41	
October	6.24	6.24	28	58.82	813.95	
November	5.11	5.11	30	51.02	704.23	
December	5.20	5.20	56	59.38	838.32	
<i>2016</i>						
January	5.06	5.06	65	43.36	593.07	
February	5.17	5.17	276	39.99	545.24	
March	5.06	5.06	480	45.26	618.64	
April	5.00	5.00	199	45.63	625.20	
May	5.05	5.04	66	49.44	679.01	
June	4.90	4.90	13	43.92	970.15	
<b>BiPAP</b>						
<i>2015</i>						
July	4.46	4.46	*****	*****	*****	
August	4.58	4.58	*****	*****	*****	
September	4.74	4.74	*****	*****	*****	
October	5.58	5.58	*****	*****	*****	
November	4.81	4.81	0	0.00	0.00	
December	4.85	4.85	*****	*****	*****	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January	4.76	4.76	*****	*****	*****	
February	4.87	4.87	16	1.83	24.63	
March	4.71	4.71	49	3.53	47.52	
April	4.67	4.67	18	3.14	42.35	
May	4.77	4.76	*****	*****	*****	
June	4.78	4.78	*****	*****	*****	
<b>Supplemental oxygen</b>						
<b>2015</b>						
July	4.47	4.47	*****	*****	*****	
August	4.59	4.59	*****	*****	*****	
September	4.75	4.75	*****	*****	*****	
October	5.74	5.74	14	25.00	342.30	
November	4.86	4.86	17	25.68	350.52	
December	4.89	4.89	33	30.93	431.94	
<b>2016</b>						
January	4.81	4.80	42	23.81	325.33	
February	4.91	4.90	196	25.41	347.46	
March	4.75	4.74	351	29.09	398.46	
April	4.71	4.71	139	28.10	385.68	
May	4.80	4.79	*****	*****	*****	
June	4.74	4.74	*****	*****	*****	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Mechanical ventilation</b>						
<i>2015</i>						
July	4.47	4.47	0	0.00	0.00	
August	4.55	4.55	0	0.00	0.00	
September	4.75	4.75	0	0.00	0.00	
October	5.60	5.60	*****	*****	*****	
November	4.81	4.81	*****	*****	*****	
December	4.85	4.85	*****	*****	*****	
<i>2016</i>						
January	4.77	4.77	11	5.59	75.60	
February	4.88	4.88	23	2.65	35.63	
March	4.72	4.71	66	4.78	64.47	
April	4.68	4.68	22	3.87	52.18	
May	4.78	4.78	*****	*****	*****	
June	4.78	4.78	*****	*****	*****	
<b>Critical Care</b>						
<i>2015</i>						
July	4.83	4.83	*****	*****	*****	
August	4.81	4.81	*****	*****	*****	
September	5.00	5.00	17	48.30	656.37	
October	6.14	6.14	18	36.96	502.79	
November	5.06	5.06	28	46.51	639.27	
December	5.13	5.13	37	38.14	529.33	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January	4.99	4.99	60	39.27	536.19	
February	5.12	5.12	238	33.71	458.49	
March	5.00	5.00	382	34.94	475.01	
April	4.95	4.95	161	35.83	489.06	
May	5.02	5.01	*****	*****	*****	
June	4.98	4.98	*****	*****	*****	
<b>ECMO</b>						
<b>2015</b>						
July	4.46	4.46	0	0.00	0.00	
August	4.58	4.58	0	0.00	0.00	
September	4.74	4.74	0	0.00	0.00	
October	5.58	5.58	0	0.00	0.00	
November	4.81	4.81	0	0.00	0.00	
December	4.85	4.85	0	0.00	0.00	
<b>2016</b>						
January	4.76	4.76	0	0.00	0.00	
February	4.87	4.87	0	0.00	0.00	
March	4.71	4.71	0	0.00	0.00	
April	4.67	4.67	0	0.00	0.00	
May	4.77	4.76	*****	*****	*****	
June	4.78	4.78	0	0.00	0.00	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Death</b>						
<i>2015</i>						
July	4.46	4.46	0	0.00	0.00	
August	4.58	4.58	0	0.00	0.00	
September	4.74	4.74	0	0.00	0.00	
October	5.58	5.58	*****	*****	*****	
November	4.81	4.81	*****	*****	*****	
December	4.85	4.85	*****	*****	*****	
<i>2016</i>						
January	4.76	4.76	12	6.05	81.69	
February	4.87	4.87	38	4.35	58.55	
March	4.71	4.71	55	3.96	53.33	
April	4.67	4.67	40	6.98	94.12	
May	4.77	4.76	*****	*****	*****	
June	4.78	4.78	*****	*****	*****	
<b>Discharge from hospital alive</b>						
<i>2015</i>						
July	4.82	4.82	*****	*****	*****	
August	4.78	4.78	*****	*****	*****	
September	5.04	5.04	27	78.95	1,084.34	
October	6.20	6.20	27	56.25	775.86	
November	5.09	5.09	32	53.96	745.92	
December	5.18	5.18	52	54.51	768.09	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January	5.06	5.06	64	42.64	582.88	
February	5.17	5.16	259	37.31	508.04	
March	5.06	5.05	451	42.31	577.61	
April	5.00	4.99	175	39.86	544.32	
May	5.05	5.03	59	44.00	602.66	
June	4.91	4.91	11	37.04	814.81	
<b>ILI - NOT Treated 0-5 Days After Diagnosis</b>						
<b>Hospitalization</b>						
<b>2015</b>						
July	0.00		199	39.67	622.07	
August	0.00		190	37.65	589.33	
September	0.00		304	35.29	551.42	
October	0.00		409	26.15	405.23	
November	0.00		317	23.42	362.91	
December	0.00		349	21.57	341.22	
<b>2016</b>						
January	0.00		482	23.37	362.30	
February	0.00		792	16.00	247.03	
March	0.00		1,199	15.33	236.79	
April	0.00		729	19.54	302.44	
May	0.00		329	21.76	337.06	
June	0.00		116	21.64	588.24	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>BiPAP</b>						
<i>2015</i>						
July	0.00		*****	*****	*****	
August	0.00		*****	*****	*****	
September	0.00		13	1.38	21.20	
October	0.00		34	2.05	31.38	
November	0.00		28	1.93	29.56	
December	0.00		46	2.63	41.24	
<i>2016</i>						
January	0.00		36	1.61	24.71	
February	0.00		98	1.83	28.08	
March	0.00		168	1.98	30.36	
April	0.00		104	2.57	39.45	
May	0.00		*****	*****	*****	
June	0.00		*****	*****	*****	
<b>Supplemental oxygen</b>						
<i>2015</i>						
July	0.00		104	19.24	299.02	
August	0.00		85	15.75	243.97	
September	0.00		158	17.50	270.97	
October	0.00		200	12.56	193.16	
November	0.00		177	12.80	197.43	
December	0.00		232	13.96	220.13	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January	0.00		291	13.74	212.27	
February	0.00		641	12.59	194.37	
March	0.00		1,024	12.71	196.43	
April	0.00		578	15.05	232.78	
May	0.00		196	12.63	194.91	
June	0.00		59	10.60	286.41	
<b>Mechanical ventilation</b>						
<b>2015</b>						
July	0.00		40	7.21	111.27	
August	0.00		45	8.09	124.76	
September	0.00		57	6.11	93.92	
October	0.00		55	3.33	51.01	
November	0.00		51	3.54	54.22	
December	0.00		53	3.06	47.89	
<b>2016</b>						
January	0.00		73	3.30	50.57	
February	0.00		123	2.32	35.61	
March	0.00		243	2.90	44.46	
April	0.00		115	2.87	44.03	
May	0.00		70	4.33	66.51	
June	0.00		20	3.47	93.15	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

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<b>Critical Care</b>						
<i>2015</i>						
July	0.00		169	34.75	542.88	
August	0.00		171	34.65	541.31	
September	0.00		258	30.31	471.66	
October	0.00		335	21.49	332.08	
November	0.00		268	19.87	307.30	
December	0.00		319	19.76	312.22	
<i>2016</i>						
January	0.00		376	18.34	283.50	
February	0.00		665	13.51	208.27	
March	0.00		1,027	13.18	203.28	
April	0.00		603	16.22	250.53	
May	0.00		272	18.11	279.75	
June	0.00		100	18.79	510.73	
<b>ECMO</b>						
<i>2015</i>						
July	0.00		0	0.00	0.00	
August	0.00		0	0.00	0.00	
September	0.00		0	0.00	0.00	
October	0.00		0	0.00	0.00	
November	0.00		0	0.00	0.00	
December	0.00		0	0.00	0.00	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January	0.00		*****	*****	*****	
February	0.00		*****	*****	*****	
March	0.00		*****	*****	*****	
April	0.00		*****	*****	*****	
May	0.00		0	0.00	0.00	
June	0.00		*****	*****	*****	
<b>Death</b>						
<b>2015</b>						
July	0.00		100	17.92	276.85	
August	0.00		99	17.71	273.18	
September	0.00		136	14.51	223.24	
October	0.00		146	8.82	135.20	
November	0.00		101	6.97	106.89	
December	0.00		131	7.52	117.78	
<b>2016</b>						
January	0.00		217	9.74	149.71	
February	0.00		392	7.34	112.71	
March	0.00		747	8.82	135.61	
April	0.00		392	9.72	149.37	
May	0.00		131	8.07	123.98	
June	0.00		32	5.52	148.42	

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Discharge from hospital alive</b>						
<i>2015</i>						
July	0.00		192	38.00	596.27	
August	0.00		182	35.85	561.38	
September	0.00		276	31.93	498.46	
October	0.00		393	25.04	387.92	
November	0.00		298	21.94	339.91	
December	0.00		328	20.17	319.22	
<i>2016</i>						
January	0.00		447	21.56	334.33	
February	0.00		740	14.88	229.87	
March	0.00		1,134	14.42	222.91	
April	0.00		664	17.70	274.02	
May	0.00		304	20.03	310.27	
June	0.00		108	20.06	544.90	
<b>ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis</b>						
<b>Hospitalization</b>						
<i>2015</i>						
July						
August						
September						
October						
November						
December						

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January						
February						
March						
April						
May						
June						
<b>BiPAP</b>						
<b>2015</b>						
July						
August						
September						
October						
November						
December						
<b>2016</b>						
January						
February						
March						
April						
May						
June						

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Supplemental oxygen</b>						
<i>2015</i>						
July						
August						
September						
October						
November						
December						
<i>2016</i>						
January						
February						
March						
April						
May						
June						
<b>Mechanical ventilation</b>						
<i>2015</i>						
July						
August						
September						
October						
November						
December						

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January						
February						
March						
April						
May						
June						
<b>Critical Care</b>						
<b>2015</b>						
July						
August						
September						
October						
November						
December						
<b>2016</b>						
January						
February						
March						
April						
May						
June						

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>ECMO</b>						
<i>2015</i>						
July						
August						
September						
October						
November						
December						
<i>2016</i>						
January						
February						
March						
April						
May						
June						
<b>Death</b>						
<i>2015</i>						
July						
August						
September						
October						
November						
December						

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January						
February						
March						
April						
May						
June						
<b>Discharge from hospital alive</b>						
<b>2015</b>						
July						
August						
September						
October						
November						
December						
<b>2016</b>						
January						
February						
March						
April						
May						
June						

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>ILI - Excluded: Outcome and Treatment, on Day of Diagnosis</b>						
<b>Hospitalization</b>						
<i>2015</i>						
July						
August						
September						
October						
November						
December						
<i>2016</i>						
January						
February						
March						
April						
May						
June						
<b>BiPAP</b>						
<i>2015</i>						
July						
August						
September						
October						
November						
December						

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January						
February						
March						
April						
May						
June						
<b>Supplemental oxygen</b>						
<b>2015</b>						
July						
August						
September						
October						
November						
December						
<b>2016</b>						
January						
February						
March						
April						
May						
June						

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Mechanical ventilation</b>						
<i>2015</i>						
July						
August						
September						
October						
November						
December						
<i>2016</i>						
January						
February						
March						
April						
May						
June						
<b>Critical Care</b>						
<i>2015</i>						
July						
August						
September						
October						
November						
December						

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January						
February						
March						
April						
May						
June						
<b>ECMO</b>						
<b>2015</b>						
July						
August						
September						
October						
November						
December						
<b>2016</b>						
January						
February						
March						
April						
May						
June						

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Death</b>						
<i>2015</i>						
July						
August						
September						
October						
November						
December						
<i>2016</i>						
January						
February						
March						
April						
May						
June						
<b>Discharge from hospital alive</b>						
<i>2015</i>						
July						
August						
September						
October						
November						
December						

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January						
February						
March						
April						
May						
June						
<b>ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis</b>						
<b>Hospitalization</b>						
<b>2015</b>						
July						
August						
September						
October						
November						
December						
<b>2016</b>						
January						
February						
March						
April						
May						
June						

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>BiPAP</b>						
<i>2015</i>						
July						
August						
September						
October						
November						
December						
<i>2016</i>						
January						
February						
March						
April						
May						
June						
<b>Supplemental oxygen</b>						
<i>2015</i>						
July						
August						
September						
October						
November						
December						

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January						
February						
March						
April						
May						
June						
<b>Mechanical ventilation</b>						
<b>2015</b>						
July						
August						
September						
October						
November						
December						
<b>2016</b>						
January						
February						
March						
April						
May						
June						

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Critical Care</b>						
<i>2015</i>						
July						
August						
September						
October						
November						
December						
<i>2016</i>						
January						
February						
March						
April						
May						
June						
<b>ECMO</b>						
<i>2015</i>						
July						
August						
September						
October						
November						
December						

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>2016</b>						
January						
February						
March						
April						
May						
June						
<b>Death</b>						
<b>2015</b>						
July						
August						
September						
October						
November						
December						
<b>2016</b>						
January						
February						
March						
April						
May						
June						

**Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2015 and June 30, 2016 by Year and Month**

Month	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years <sup>1</sup>
<b>Discharge from hospital alive</b>						
<i>2015</i>						
July						
August						
September						
October						
November						
December						
<i>2016</i>						
January						
February						
March						
April						
May						
June						

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

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

Data are not presented in shaded cells due to their inability to be calculated.

**Appendix A. Start and End Dates for Each Data Partner (DP) up to Request End Date (June 30, 2016)**

DP ID	Start Date <sup>1</sup>	End Date <sup>1</sup>
DP01	1/1/2000	6/30/2016
DP02	1/1/2000	6/30/2016
DP03	1/1/2008	6/30/2016
DP04	1/1/2000	6/30/2016
DP05	1/1/2006	6/30/2016
DP06	1/1/2008	6/30/2016
DP07	1/1/2000	6/30/2016
DP08	6/1/2007	6/30/2016
DP09	1/1/2004	6/30/2016
DP10	1/1/2000	6/30/2016
DP11	6/1/2007	6/30/2016
DP12	1/1/2000	6/30/2016
DP13	1/1/2010	6/30/2016

<sup>1</sup>The start and end dates are based on the minimum and maximum dates within each DP. The month with the maximum date must have at least 80% of the number of records in the previous month.

**Appendix B. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Cohorts in this Request**

Code	Description	Code	
		Category	Code Type
<b>Influenza-Like Illness (ILI)<sup>1</sup></b>			
487	Influenza	Diagnosis	ICD-9-CM
487.0	Influenza with pneumonia	Diagnosis	ICD-9-CM
487.1	Influenza with other respiratory manifestations	Diagnosis	ICD-9-CM
487.8	Influenza with other manifestations	Diagnosis	ICD-9-CM
488	Influenza due to certain identified influenza viruses	Diagnosis	ICD-9-CM
488.0	Influenza due to identified avian influenza virus	Diagnosis	ICD-9-CM
488.01	Influenza due to identified avian influenza virus with pneumonia	Diagnosis	ICD-9-CM
488.02	Influenza due to identified avian influenza virus with other respiratory manifestations	Diagnosis	ICD-9-CM
488.09	Influenza due to identified avian influenza virus with other manifestations	Diagnosis	ICD-9-CM
488.1	Influenza due to identified 2009 H1N1 influenza virus	Diagnosis	ICD-9-CM
488.11	Influenza due to identified 2009 H1N1 influenza virus with pneumonia	Diagnosis	ICD-9-CM
488.12	Influenza due to identified 2009 H1N1 influenza virus with other respiratory manifestations	Diagnosis	ICD-9-CM
488.19	Influenza due to identified 2009 H1N1 influenza virus with other manifestations	Diagnosis	ICD-9-CM
488.8	Influenza due to novel influenza A	Diagnosis	ICD-9-CM
488.81	Influenza due to identified novel influenza A virus with pneumonia	Diagnosis	ICD-9-CM
488.82	Influenza due to identified novel influenza A virus with other respiratory manifestations	Diagnosis	ICD-9-CM
488.89	Influenza due to identified novel influenza A virus with other manifestations	Diagnosis	ICD-9-CM
J09.X1	Influenza due to identified novel influenza A virus with pneumonia	Diagnosis	ICD-10-CM
J09.X2	Influenza due to identified novel influenza A virus with other respiratory manifestations	Diagnosis	ICD-10-CM
J09.X3	Influenza due to identified novel influenza A virus with gastrointestinal manifestations	Diagnosis	ICD-10-CM
J09.X9	Influenza due to identified novel influenza A virus with other manifestations	Diagnosis	ICD-10-CM
J10.00	Influenza due to other identified influenza virus with unspecified type of pneumonia	Diagnosis	ICD-10-CM
J10.01	Influenza due to other identified influenza virus with the same other identified influenza virus pneumonia	Diagnosis	ICD-10-CM
J10.08	Influenza due to other identified influenza virus with other specified pneumonia	Diagnosis	ICD-10-CM
J10.1	Influenza due to other identified influenza virus with other respiratory manifestations	Diagnosis	ICD-10-CM
J10.2	Influenza due to other identified influenza virus with gastrointestinal manifestations	Diagnosis	ICD-10-CM
J10.81	Influenza due to other identified influenza virus with encephalopathy	Diagnosis	ICD-10-CM
J10.82	Influenza due to other identified influenza virus with myocarditis	Diagnosis	ICD-10-CM
J10.83	Influenza due to other identified influenza virus with otitis media	Diagnosis	ICD-10-CM
J10.89	Influenza due to other identified influenza virus with other manifestations	Diagnosis	ICD-10-CM
J11.00	Influenza due to unidentified influenza virus with unspecified type of pneumonia	Diagnosis	ICD-10-CM
J11.08	Influenza due to unidentified influenza virus with specified pneumonia	Diagnosis	ICD-10-CM
J11.1	Influenza due to unidentified influenza virus with other respiratory manifestations	Diagnosis	ICD-10-CM
J11.2	Influenza due to unidentified influenza virus with gastrointestinal manifestations	Diagnosis	ICD-10-CM
J11.81	Influenza due to unidentified influenza virus with encephalopathy	Diagnosis	ICD-10-CM
J11.82	Influenza due to unidentified influenza virus with myocarditis	Diagnosis	ICD-10-CM
J11.83	Influenza due to unidentified influenza virus with otitis media	Diagnosis	ICD-10-CM
J11.89	Influenza due to unidentified influenza virus with other manifestations	Diagnosis	ICD-10-CM

**Appendix C. List of 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, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), and Revenue Codes Used to Define Endpoints in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
<b>BIPHASIC POSITIVE AIRWAY PRESSURE (BiPAP)</b>			
A7027	Combination oral/nasal mask, used with continuous positive airway pressure device, each	Procedure	HCPCS
A7030	Full face mask used with positive airway pressure device, each	Procedure	HCPCS
A7034	Nasal interface (mask or cannula type) used with positive airway pressure device, with or without head strap	Procedure	HCPCS
A7044	Oral interface used with positive airway pressure device, each	Procedure	HCPCS
A7045	Exhalation port with or without swivel used with accessories for positive airway devices, replacement only	Procedure	HCPCS
A7046	Water chamber for humidifier, used with positive airway pressure device, replacement, each	Procedure	HCPCS
E0470	Respiratory assist device, bi-level pressure capability, without backup rate feature, used with noninvasive interface, e.g., nasal or facial mask (intermittent assist device with continuous positive airway pressure device)	Procedure	HCPCS
E0471	Respiratory assist device, bi-level pressure capability, with back-up rate feature, used with noninvasive interface, e.g., nasal or facial mask (intermittent assist device with continuous positive airway pressure device)	Procedure	HCPCS
E0472	Respiratory assist device, bi-level pressure capability, with backup rate feature, used with invasive interface, e.g., tracheostomy tube (intermittent assist device with continuous positive airway pressure device)	Procedure	HCPCS
E0561	Humidifier, nonheated, used with positive airway pressure device	Procedure	HCPCS
E0562	Humidifier, heated, used with positive airway pressure device	Procedure	HCPCS
<b>SUPPLEMENTAL OXYGEN</b>			
93.96	Other oxygen enrichment	Procedure	ICD-9-CM
V46.2	Other dependence on machines, supplemental oxygen	Diagnosis	ICD-9-CM
3E0F7GC	Introduction of Other Therapeutic Substance into Respiratory Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
Z99.81	Dependence on supplemental oxygen	Diagnosis	ICD-10-CM
94640	Pressurized or nonpressurized inhalation treatment for acute airway obstruction or for sputum induction for diagnostic purposes (eg, with an aerosol generator, nebulizer, metered dose inhaler or intermittent positive pressure breathing [IPPB] device)	Procedure	CPT-4
94644	Continuous inhalation treatment with aerosol medication for acute airway obstruction; first hour	Procedure	CPT-4
94645	Continuous inhalation treatment with aerosol medication for acute airway obstruction; each additional hour (List separately in addition to code for primary procedure)	Procedure	CPT-4
<b>MECHANICAL VENTILATION</b>			
93.90	Non-invasive mechanical ventilation	Procedure	ICD-9-CM
96.03	Insertion of esophageal obturator airway	Procedure	ICD-9-CM
96.04	Insertion of endotracheal tube	Procedure	ICD-9-CM
96.05	Other intubation of respiratory tract	Procedure	ICD-9-CM
96.7	Other continuous invasive mechanical ventilation	Procedure	ICD-9-CM
96.70	Continuous invasive mechanical ventilation of unspecified duration	Procedure	ICD-9-CM

**Appendix C. List of 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, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), and Revenue Codes Used to Define Endpoints in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
96.71	Continuous invasive mechanical ventilation for less than 96 consecutive hours	Procedure	ICD-9-CM
96.72	Continuous invasive mechanical ventilation for 96 consecutive hours or more	Procedure	ICD-9-CM
93.91	Intermittent positive pressure breathing (IPPB)	Procedure	ICD-9-CM
5A09357	Assistance with Respiratory Ventilation, Less than 24 Consecutive Hours, Continuous Positive Airway Pressure	Procedure	ICD-10-PCS
5A09457	Assistance with Respiratory Ventilation, 24-96 Consecutive Hours, Continuous Positive Airway Pressure	Procedure	ICD-10-PCS
5A09557	Assistance with Respiratory Ventilation, Greater than 96 Consecutive Hours, Continuous Positive Airway Pressure	Procedure	ICD-10-PCS
0B717DZ	Dilation of Trachea with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0B718DZ	Dilation of Trachea with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0BH072Z	Insertion of Monitoring Device into Tracheobronchial Tree, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0BH073Z	Insertion of Infusion Device into Tracheobronchial Tree, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0BH07DZ	Insertion of Intraluminal Device into Tracheobronchial Tree, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0BH07YZ	Insertion of Other Device into Tracheobronchial Tree, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0BH172Z	Insertion of Monitoring Device into Trachea, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0BH17EZ	Insertion of Endotracheal Airway into Trachea, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0BH17YZ	Insertion of Other Device into Trachea, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0BH182Z	Insertion of Monitoring Device into Trachea, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0BH18EZ	Insertion of Endotracheal Airway into Trachea, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0BH18YZ	Insertion of Other Device into Trachea, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0BHK72Z	Insertion of Monitoring Device into Right Lung, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0BHK73Z	Insertion of Infusion Device into Right Lung, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0BHK7YZ	Insertion of Other Device into Right Lung, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0BHK82Z	Insertion of Monitoring Device into Right Lung, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0BHK83Z	Insertion of Infusion Device into Right Lung, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0BHK8YZ	Insertion of Other Device into Right Lung, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0BHL72Z	Insertion of Monitoring Device into Left Lung, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0BHL73Z	Insertion of Infusion Device into Left Lung, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0BHL7YZ	Insertion of Other Device into Left Lung, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0BHL82Z	Insertion of Monitoring Device into Left Lung, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0BHL83Z	Insertion of Infusion Device into Left Lung, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0BHL8YZ	Insertion of Other Device into Left Lung, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DH57BZ	Insertion of Airway into Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DH58BZ	Insertion of Airway into Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0WHQ73Z	Insertion of Infusion Device into Respiratory Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0WHQ7YZ	Insertion of Other Device into Respiratory Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

**Appendix C. List of 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, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), and Revenue Codes Used to Define Endpoints in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
5A1935Z	Respiratory Ventilation, Less than 24 Consecutive Hours	Procedure	ICD-10-PCS
5A1945Z	Respiratory Ventilation, 24-96 Consecutive Hours	Procedure	ICD-10-PCS
5A1955Z	Respiratory Ventilation, Greater than 96 Consecutive Hours	Procedure	ICD-10-PCS
5A09358	Assistance with Respiratory Ventilation, Less than 24 Consecutive Hours, Intermittent Positive Airway Pressure	Procedure	ICD-10-PCS
5A0955B	Assistance with Respiratory Ventilation, Greater than 96 Consecutive Hours, Intermittent Negative Airway Pressure	Procedure	ICD-10-PCS
5A09558	Assistance with Respiratory Ventilation, Greater than 96 Consecutive Hours, Intermittent Positive Airway Pressure	Procedure	ICD-10-PCS
5A09559	Assistance with Respiratory Ventilation, Greater than 96 Consecutive Hours, Continuous Negative Airway Pressure	Procedure	ICD-10-PCS
5A09459	Assistance with Respiratory Ventilation, 24-96 Consecutive Hours, Continuous Negative Airway Pressure	Procedure	ICD-10-PCS
5A0945B	Assistance with Respiratory Ventilation, 24-96 Consecutive Hours, Intermittent Negative Airway Pressure	Procedure	ICD-10-PCS
5A09458	Assistance with Respiratory Ventilation, 24-96 Consecutive Hours, Intermittent Positive Airway Pressure	Procedure	ICD-10-PCS
5A0935B	Assistance with Respiratory Ventilation, Less than 24 Consecutive Hours, Intermittent Negative Airway Pressure	Procedure	ICD-10-PCS
5A09359	Assistance with Respiratory Ventilation, Less than 24 Consecutive Hours, Continuous Negative Airway Pressure	Procedure	ICD-10-PCS
5A0935Z	Assistance with Respiratory Ventilation, Less than 24 Consecutive Hours	Procedure	ICD-10-PCS
5A0955Z	Assistance with Respiratory Ventilation, Greater than 96 Consecutive Hours	Procedure	ICD-10-PCS
5A0945Z	Assistance with Respiratory Ventilation, 24-96 Consecutive Hours	Procedure	ICD-10-PCS
4168F	Patient receiving care in the intensive care unit (ICU) and receiving mechanical ventilation, 24 hours or less (CRIT)	Procedure	CPT-2
94662	continuous negative pressure ventilator	Procedure	CPT-4
94656	ventilation assist and management, initiation of pressure or volume preset ventilator for assisted or controlled breathing: first day	Procedure	CPT-4
94657	ventilation assist and management, initiation of pressure or volume preset ventilator for assisted or controlled breathing: subsequent days	Procedure	CPT-4
94002	ventilation assist and management, initiation of pressure or volume preset ventilators for assisted or controlled breathing; hospital inpatient/observation, initial day	Procedure	CPT-4
94003	ventilation assist and management, initiation of pressure or volume preset ventilators for assisted or controlled breathing; hospital inpatient/observation, each subsequent day	Procedure	CPT-4
94004	Ventilation assist and management, initiation of pressure or volume preset ventilators for assisted or controlled breathing; nursing facility, per day	Procedure	CPT-4

**Appendix C. List of 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, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), and Revenue Codes Used to Define Endpoints in this Request**

Code	Description	Code Category	Code Type
<b>CRITICAL OR OBSERVATIONAL CARE</b>			
99220	Initial observation care, per day, for the evaluation and management of a patient, which requires these 3 key components: A comprehensive history; A comprehensive examination; and Medical decision making of high complexity. Counseling and/or coordination of care with other physicians, other qualified health care professionals, or agencies are provided consistent with the nature of the problem(s) and the patient's and/or family's needs. Usually, the problem(s) requiring admission to outpatient hospital "observation status" are of high severity. Typically, 70 minutes are spent at the bedside and on the patient's hospital floor or unit.	Procedure	CPT-4
99221	Initial hospital care, per day, for the evaluation and management of a patient, which requires these 3 key components: A detailed or comprehensive history; A detailed or comprehensive examination; and Medical decision making that is straightforward or of low complexity. Counseling and/or coordination of care with other physicians, other qualified health care professionals, or agencies are provided consistent with the nature of the problem(s) and the patient's and/or family's needs. Usually, the problem(s) requiring admission are of low severity. Typically, 30 minutes are spent at the bedside and on the patient's hospital floor or unit.	Procedure	CPT-4
99222	Initial hospital care, per day, for the evaluation and management of a patient, which requires these 3 key components: A comprehensive history; A comprehensive examination; and Medical decision making of moderate complexity. Counseling and/or coordination of care with other physicians, other qualified health care professionals, or agencies are provided consistent with the nature of the problem(s) and the patient's and/or family's needs. Usually, the problem(s) requiring admission are of moderate severity. Typically, 50 minutes are spent at the bedside and on the patient's hospital floor or unit.	Procedure	CPT-4
99223	Initial hospital care, per day, for the evaluation and management of a patient, which requires these 3 key components: A comprehensive history; A comprehensive examination; and Medical decision making of high complexity. Counseling and/or coordination of care with other physicians, other qualified health care professionals, or agencies are provided consistent with the nature of the problem(s) and the patient's and/or family's needs. Usually, the problem(s) requiring admission are of high severity. Typically, 70 minutes are spent at the bedside and on the patient's hospital floor or unit.	Procedure	CPT-4
99224	Subsequent observation care, per day, for the evaluation and management of a patient, which requires at least 2 of these 3 key components: Problem focused interval history; Problem focused examination; Medical decision making that is straightforward or of low complexity. Counseling and/or coordination of care with other physicians, other qualified health care professionals, or agencies are provided consistent with the nature of the problem(s) and the patient's and/or family's needs. Usually, the patient is stable, recovering, or improving. Typically, 15 minutes are spent at the bedside and on the patient's hospital floor or unit.	Procedure	CPT-4

**Appendix C. List of 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, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), and Revenue Codes Used to Define Endpoints in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
99225	Subsequent observation care, per day, for the evaluation and management of a patient, which requires at least 2 of these 3 key components: An expanded problem focused interval history; An expanded problem focused examination; Medical decision making of moderate complexity. Counseling and/or coordination of care with other physicians, other qualified health care professionals, or agencies are provided consistent with the nature of the problem(s) and the patient's and/or family's needs. Usually, the patient is responding inadequately to therapy or has developed a minor complication. Typically, 25 minutes are spent at the bedside and on the patient's hospital floor or unit.	Procedure	CPT-4
99226	Subsequent observation care, per day, for the evaluation and management of a patient, which requires at least 2 of these 3 key components: A detailed interval history; A detailed examination; Medical decision making of high complexity. Counseling and/or coordination of care with other physicians, other qualified health care professionals, or agencies are provided consistent with the nature of the problem(s) and the patient's and/or family's needs. Usually, the patient is unstable or has developed a significant complication or a significant new problem. Typically, 35 minutes are spent at the bedside and on the patient's hospital floor or unit.	Procedure	CPT-4
99291	Critical care, evaluation and management of the critically ill or critically injured patient; first 30-74 minutes	Procedure	CPT-4
99292	Critical care, evaluation and management of the critically ill or critically injured patient; each additional 30 minutes (List separately in addition to code for primary service)	Procedure	CPT-4
31500	Intubation, endotracheal, emergency procedure	Procedure	CPT-4
94002	Ventilation assist and management, initiation of pressure or volume preset ventilators for assisted or controlled breathing; hospital inpatient/observation, initial day	Procedure	CPT-4
94003	Ventilation assist and management, initiation of pressure or volume preset ventilators for assisted or controlled breathing; hospital inpatient/observation, each subsequent day	Procedure	CPT-4
94004	Ventilation assist and management, initiation of pressure or volume preset ventilators for assisted or controlled breathing; nursing facility, per day	Procedure	CPT-4
94660	Continuous positive airway pressure ventilation (CPAP), initiation and management	Procedure	CPT-4
99468	Initial inpatient neonatal critical care, per day, for the evaluation and management of a critically ill neonate, 28 days of age or younger	Procedure	CPT-4
99471	Initial inpatient pediatric critical care, per day, for the evaluation and management of a critically ill infant or young child, 29 days through 24 months of age	Procedure	CPT-4
99475	Initial inpatient pediatric critical care, per day, for the evaluation and management of a critically ill infant or young child, 2 through 5 years of age	Procedure	CPT-4
99295	Critically ill neonate through 28 days of life	Procedure	CPT-4
99256	Critically ill neonate through 28 days of life	Procedure	CPT-4
99293	Critically ill infant 29 days through 24 months of age	Procedure	CPT-4
99254	Critically ill infant 29 days through 24 months of age	Procedure	CPT-4
200	ICU	Procedure	Revenue
201	Surgical	Procedure	Revenue

**Appendix C. List of 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, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), and Revenue Codes Used to Define Endpoints in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
202	Medical	Procedure	Revenue
203	Pediatric	Procedure	Revenue
204	Psychiatric	Procedure	Revenue
206	Post ICU	Procedure	Revenue
207	Burn Care	Procedure	Revenue
208	Trauma	Procedure	Revenue
209	Other intensive care	Procedure	Revenue
175	Neonatal ICU	Procedure	Revenue
0200	ICU	Procedure	Revenue
0201	Surgical	Procedure	Revenue
0202	Medical	Procedure	Revenue
0203	Pediatric	Procedure	Revenue
0204	Psychiatric	Procedure	Revenue
0206	Post ICU	Procedure	Revenue
0207	Burn Care	Procedure	Revenue
0208	Trauma	Procedure	Revenue
0209	Other intensive care	Procedure	Revenue
0175	Neonatal ICU	Procedure	Revenue
<b>EXTRACORPOREAL MEMBRANE OXYGENATION (ECMO)</b>			
39.65	Extracorporeal membrane oxygenation (ECMO)	Procedure	ICD-9-CM
5A15223	Extracorporeal Membrane Oxygenation, Continuous	Procedure	ICD-10-PCS
33988	Insertion of left heart vent by thoracic incision (eg, sternotomy, thoracotomy) for ECMO/ECLS	Procedure	CPT-4
33947	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; initiation, veno-arterial	Procedure	CPT-4
33965	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of peripheral (arterial and/or venous) cannula(e), percutaneous, birth through 5 years of age	Procedure	CPT-4
33955	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of central cannula(e) by sternotomy or thoracotomy, birth through 5 years of age	Procedure	CPT-4
33964	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition central cannula(e) by sternotomy or thoracotomy, 6 years and older (includes fluoroscopic guidance, when performed)	Procedure	CPT-4
33953	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e), open, birth through 5 years of age	Procedure	CPT-4
33959	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e), open, birth through 5 years of age (includes fluoroscopic guidance, when performed)	Procedure	CPT-4

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
33984	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of peripheral (arterial and/or venous) cannula(e), open, 6 years and older	Procedure	CPT-4
33962	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e), open, 6 years and older (includes fluoroscopic guidance, when performed)	Procedure	CPT-4
33958	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e), percutaneous, 6 years and older (includes fluoroscopic guidance, when performed)	Procedure	CPT-4
33986	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of central cannula(e) by sternotomy or thoracotomy, 6 years and older	Procedure	CPT-4
33952	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e), percutaneous, 6 years and older (includes fluoroscopic guidance, when performed)	Procedure	CPT-4
33948	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; daily management, each day, veno-venous	Procedure	CPT-4
33989	Removal of left heart vent by thoracic incision (eg, sternotomy, thoracotomy) for ECMO/ECLS	Procedure	CPT-4
33946	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; initiation, veno-venous	Procedure	CPT-4
36822	Insertion of cannula(s) for prolonged extracorporeal circulation for cardiopulmonary insufficiency (ECMO) (separate procedure)	Procedure	CPT-4
33954	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e), open, 6 years and older	Procedure	CPT-4
33951	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e), percutaneous, birth through 5 years of age (includes fluoroscopic guidance, when performed)	Procedure	CPT-4
33963	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition of central cannula(e) by sternotomy or thoracotomy, birth through 5 years of age (includes fluoroscopic guidance, when performed)	Procedure	CPT-4
33969	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of peripheral (arterial and/or venous) cannula(e), open, birth through 5 years of age	Procedure	CPT-4
33966	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of peripheral (arterial and/or venous) cannula(e), percutaneous, 6 years and older	Procedure	CPT-4
33987	Arterial exposure with creation of graft conduit (eg, chimney graft) to facilitate arterial perfusion for ECMO/ECLS (List separately in addition to code for primary procedure)	Procedure	CPT-4

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
33957	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e), percutaneous, birth through 5 years of age (includes fluoroscopic guidance, when performed)	Procedure	CPT-4
33985	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of central cannula(e) by sternotomy or thoracotomy, birth through 5 years of age	Procedure	CPT-4
33949	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; daily management, each day, veno-arterial	Procedure	CPT-4
33956	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of central cannula(e) by sternotomy or thoracotomy, 6 years and older	Procedure	CPT-4
33960	Prolonged extracorporeal circulation for cardiopulmonary insufficiency; initial day	Procedure	CPT-4
33961	Prolonged extracorporeal circulation for cardiopulmonary insufficiency; each subsequent day	Procedure	CPT-4

**Appendix D. List of Generic and Brand Name Medical Products Used to Define Influenza Treatment in this Request**

<b>Generic Name</b>	<b>Brand Name</b>
<b>Osletamivir</b>	
oseltamivir phosphate	Tamiflu
oseltamivir phosphate	Osetamivir
<b>Zanamivir</b>	
zanamivir	Relenza Diskhaler
<b>Peramivir</b>	
peramivir/PF	Rapivab

**Appendix E. List of Healthcare Common Procedure Coding System (HCPCS) Used to Define Influenza Treatment in this Request**

Code	Description	Code	
		Category	Code Type
<b>Peramivir</b>			
C9451	Injection, peramivir, 1 mg	Procedure	HCPCS
J2547	Injection, peramivir, 1 mg	Procedure	HCPCS

**Appendix F. List of Generic and Brand Name Medical Products Used to Define Baseline Characteristics in this Request**

Generic Name	Brand Name
<b>Influenza Vaccination</b>	
<b>Influenza Season July 1, 2014 - June 30, 2015</b>	
influenza vaccine quadrivalent live 2014-2015 (2 yrs-49 yrs)	Flumist Quad 2014-2015
influenza virus vaccine quad vs 2014-2015 (36 mos and older)	Flulaval Quad 2014-2015
influenza virus vaccine trival 2014-15 (36 mos and older)/PF	Flulaval 2014-2015 (PF)
influenza virus vaccine trivalent 2014-15 (36 mos and older)	Flulaval 2014-2015
influenza virus vaccine quadrival 2014-15(36 mos, older)/PF	Flulaval Quad 2014-2015 (PF)
influenza virus vaccine trivalent 2014-2015 (5 yr, older)/PF	Afluria 2014-2015 (PF)
influenza virus vaccine trivalent 2014-2015 (5 yr and older)	Afluria 2014-2015
influenza virus vaccine tv 2014-2015(18 yrs, older)recomb/PF	Flublok 2014-2015 (PF)
influenza virus vaccine trival 2014-15 (36 mos and older)/PF	Fluzone 2014-2015 (PF)
influenza virus vaccine trivalent 2014-15 (6 mos and older)	Fluzone 2014-2015
influenza virus vaccine trivalent 2014-2015 (65 yr,older)/PF	Fluzone High-Dose 2014-15 (PF)
influenza virus vaccine quadrival 2014-15(36 mos, older)/PF	Fluzone Quad 2014-2015 (PF)
influenza virus vaccine quadrival 2014-15 (6 mos-35 mos)/PF	Fluzone Quad Pedi 2014-15 (PF)
influenza virus vaccine quadrival 2014-2015(6 mos and older)	Fluzone Quad 2014-2015
influenza virus vaccine trivalent 2014-15 (18 yrs-64 yrs)/PF	Fluzone Intraderm 2014-15 (PF)
influenza virus vaccine trival 2014-15 (36 mos and older)/PF	Fluarix 2014-2015 (PF)
influenza virus vaccine quadrival 2014-15(36 mos, older)/PF	Fluarix Quad 2014-2015 (PF)
influenza vaccine tv split 2014-15 (18 yr,up)cell derived/PF	Flucelvax 2014-2015 (PF)
influenza virus vaccine trivalent 2014-2015 (4 yr, older)/PF	Fluvirin 2014-2015 (PF)
influenza virus vaccine trivalent 2014-2015 (4 yr and older)	Fluvirin 2014-2015
influenza vaccine tv split 2014-15 (18 yr,up)cell derived/PF	Single Use EZ Flu 2014-15(PF)
<b>Influenza Season July 1, 2015 - June 30, 2016</b>	
influenza vaccine quadrivalent live 2015-2016 (2 yrs-49 yrs)	Flumist Quad 2015-2016
influenza virus vaccine quadrival 2015-2016 (36 mos, older)	Flulaval Quad 2015-2016
influenza virus vaccine trivalent 2015-2016 (5 yr, older)/PF	Afluria 2015-2016 (PF)
influenza virus vaccine trivalent 2015-2016 (5 yr and older)	Afluria 2015-2016
influenza virus vaccine tv 2015-2016(18 yrs, older)recomb/PF	Flublok 2015-2016 (PF)
influenza virus vaccine trivalent 2015-16 (6 mos and older)	Fluzone 2015-2016
influenza virus vaccine trivalent split 2015-16(65 yr,up)/PF	Fluzone High-Dose 2015-16 (PF)
influenza virus vaccine quadrival split2015-16(36 mos,up)/PF	Fluzone Quad 2015-2016 (PF)
influenza virus vaccine quadrival 2015-16 (6 mos-35 mos)/PF	Fluzone Quad Pedi 2015-16 (PF)
influenza virus vaccine qvalsplitt 2015-2016(6 mos and older)	Fluzone Quad 2015-2016
influenza virus vaccine quadrivalent 2015-16(18yrs-64yrs)/PF	Fluzone Intraderm Quad 2015-16
influenza virus vaccine quadrival split2015-16(36 mos,up)/PF	Fluarix Quad 2015-2016 (PF)
influenza vaccine trivalent 2015-16(18 yr,up)cell derived/PF	Flucelvax 2015-2016 (PF)
influenza vaccine tvs 2015-16 (65 yr,up)/adjuvant MF59C.1/PF	Fluad 2015-16(65yr+)(PF)
influenza virus vaccine trivalent 2015-2016 (4 yr, older)/PF	Fluvirin 2015-2016 (PF)
influenza virus vaccine trivalent 2015-2016 (4 yr and older)	Fluvirin 2015-2016
influenza virus vaccine trivalent 2015-2016 (4 yr, older)/PF	EZ Flu 2015-16 (Fluvirin) (PF)
influenza vaccine trivalent 2015-16(18 yr,up)cell derived/PF	EZ Flu 2015-16(Flucelvax)(PF)

**Appendix F. List of Generic and Brand Name Medical Products Used to Define Baseline Characteristics in this Request**

Generic Name	Brand Name
<b>Influenza Season July 1, 2015 - June 30, 2016</b>	
influenza virus vaccine qvalsplrit 2016-2017(6 mos and older)	Flulaval Quad 2016-2017
influenza virus vaccine qvalsplrit 2016-2017(6 mos and up)/PF	Flulaval Quad 2016-2017 (PF)
influenza virus vaccine trivalent 2016-2017 (5 years up)/PF	Afluria 2016-2017 (PF)
influenza virus vaccine trivalent 2016-2017 (5 yr and older)	Afluria 2016-2017
influenza virus vaccine tv 2016-17(18 yrs and older)rcmb/PF	Flublok 2016-2017 (PF)
influenza virus vaccine trival split 2016-2017(65 yr up)/PF	Fluzone High-Dose 2016-17 (PF)
influenza virus vaccine quadval split 2016-17(36 mos up)/PF	Fluzone Quad 2016-2017 (PF)
influenza virus vaccine quadrival 2016-17 (6 mos-35 mos)/PF	Fluzone Quad Pedi 2016-17 (PF)
influenza virus vaccine qvalsplrit 2016-2017(6 mos and older)	Fluzone Quad 2016-2017
influenza virus vaccine quadrivalent 2016-17(18yrs-64yrs)/PF	Fluzone Intraderm Quad 2016-17
influenza virus vaccine quadval split 2016-17(36 mos up)/PF	Fluarix Quad 2016-2017 (PF)
influenza vaccine tvs 2016-17 (65 yr up)/adjuvant MF59C.1/PF	Fluad 2016-2017 (65 yr up)(PF)
influenza virus vaccine trival 2016-2017 (4yr and older)/PF	Fluvirin 2016-2017 (PF)
influenza virus vaccine trivalent 2016-2017 (4 yr and older)	Fluvirin 2016-2017
flu vaccine qs 2016-2017(4 years and older)cell derived/PF	Flucelvax Quad 2016-2017 (PF)
influenza virus vaccine trival 2016-2017 (4yr and older)/PF	EZ Flu 2016-17 (Fluvirin) (PF)
influenza virus vaccine trivalent 2016-2017 (5 years up)/PF	EZ Flu 2016-17 (Afluria) (PF)
influenza vaccine quadrivalent live 2016-2017 (2 yrs-49 yrs)	Flumist Quad 2016-2017
influenza virus vaccine quadrival 2016-17 (6 mos-35 mos)/PF	EZ Flu16-17(Fluzon Qd Ped)(PF)
influenza virus vaccine quadrivalent 2016-17(18yr and up)/PF	Afluria Quad 2016-2017 (PF)
influenza virus vaccine quadrivalent 2016-17(18 year and up)	Afluria Quad 2016-2017
<b>Pneumococcal Vaccination</b>	
pneumococcal 7-valent conjugate vaccine (diphtheria crm)/PF	Pevnar (PF)
pneumococcal 23-valent polysaccharide vaccine	Pneumovax 23
pneumococcal 13-valent conjugate vaccine (Diphtheria crm)/PF	Pevnar 13 (PF)

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
<b>INFLUENZA TESTING</b>			
87275	Infectious agent antigen detection by immunofluorescent technique; influenza B virus	Procedure	CPT-4
87276	Infectious agent antigen detection by immunofluorescent technique; influenza A virus	Procedure	CPT-4
87400	Infectious agent antigen detection by immunoassay technique, (eg, enzyme immunoassay [EIA], enzyme-linked immunosorbent assay [ELISA], immunochemiluminometric assay [IMCA]) qualitative or semiquantitative, multiple-step method; Influenza, A or B, each	Procedure	CPT-4
87501	Infectious agent detection by nucleic acid (DNA or RNA); influenza virus, includes reverse transcription, when performed, and amplified probe technique, each type or subtype	Procedure	CPT-4
87502	Infectious agent detection by nucleic acid (DNA or RNA); influenza virus, for multiple types or sub-types, includes multiplex reverse transcription, when performed, and multiplex amplified probe technique, first 2 types or sub-types	Procedure	CPT-4
87503	Infectious agent detection by nucleic acid (DNA or RNA); influenza virus, for multiple types or sub-types, includes multiplex reverse transcription, when performed, and multiplex amplified probe technique, each additional influenza virus type or sub-type beyond 2 (List separately in addition to code for primary procedure)	Procedure	CPT-4
87804	Infectious agent antigen detection by immunoassay with direct optical observation; Influenza	Procedure	CPT-4
86710	Influenza A and B antibody serology (complement fixation)	Procedure	CPT-4
<b>ASTHMA</b>			
493	Asthma	Diagnosis	ICD-09-CM
493.0	Extrinsic asthma	Diagnosis	ICD-09-CM
493.00	Extrinsic asthma, unspecified	Diagnosis	ICD-09-CM
493.01	Extrinsic asthma with status asthmaticus	Diagnosis	ICD-09-CM
493.02	Extrinsic asthma, with (acute) exacerbation	Diagnosis	ICD-09-CM
493.1	Intrinsic asthma	Diagnosis	ICD-09-CM
493.10	Intrinsic asthma, unspecified	Diagnosis	ICD-09-CM
493.11	Intrinsic asthma with status asthmaticus	Diagnosis	ICD-09-CM
493.12	Intrinsic asthma, with (acute) exacerbation	Diagnosis	ICD-09-CM
493.2	Chronic obstructive asthma	Diagnosis	ICD-09-CM
493.20	Chronic obstructive asthma, unspecified	Diagnosis	ICD-09-CM
493.21	Chronic obstructive asthma with status asthmaticus	Diagnosis	ICD-09-CM
493.22	Chronic obstructive asthma, with (acute) exacerbation	Diagnosis	ICD-09-CM
493.8	Other forms of asthma	Diagnosis	ICD-09-CM
493.81	Exercise induced bronchospasm	Diagnosis	ICD-09-CM
493.82	Cough variant asthma	Diagnosis	ICD-09-CM
493.9	Unspecified asthma	Diagnosis	ICD-09-CM
493.90	Asthma, unspecified, unspecified status	Diagnosis	ICD-09-CM
493.91	Asthma, unspecified with status asthmaticus	Diagnosis	ICD-09-CM
493.92	Asthma, unspecified, with (acute) exacerbation	Diagnosis	ICD-09-CM
J45.20	Mild intermittent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.21	Mild intermittent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J45.22	Mild intermittent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.30	Mild persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.31	Mild persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.32	Mild persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.40	Moderate persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.41	Moderate persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.42	Moderate persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.50	Severe persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.51	Severe persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.52	Severe persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.901	Unspecified asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.902	Unspecified asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.909	Unspecified asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.990	Exercise induced bronchospasm	Diagnosis	ICD-10-CM
J45.991	Cough variant asthma	Diagnosis	ICD-10-CM
J45.998	Other asthma	Diagnosis	ICD-10-CM
<b>CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)</b>			
491	Chronic bronchitis	Diagnosis	ICD-09-CM
491.0	Simple chronic bronchitis	Diagnosis	ICD-09-CM
491.1	Mucopurulent chronic bronchitis	Diagnosis	ICD-09-CM
491.2	Obstructive chronic bronchitis	Diagnosis	ICD-09-CM
491.20	Obstructive chronic bronchitis, without exacerbation	Diagnosis	ICD-09-CM
491.21	Obstructive chronic bronchitis, with (acute) exacerbation	Diagnosis	ICD-09-CM
491.22	Obstructive chronic bronchitis with acute bronchitis	Diagnosis	ICD-09-CM
491.8	Other chronic bronchitis	Diagnosis	ICD-09-CM
491.9	Unspecified chronic bronchitis	Diagnosis	ICD-09-CM
492	Emphysema	Diagnosis	ICD-09-CM
492.0	Emphysematous bleb	Diagnosis	ICD-09-CM
492.8	Other emphysema	Diagnosis	ICD-09-CM
496	Chronic airway obstruction, not elsewhere classified	Diagnosis	ICD-09-CM
J41.0	Simple chronic bronchitis	Diagnosis	ICD-10-CM
J41.1	Mucopurulent chronic bronchitis	Diagnosis	ICD-10-CM
J41.8	Mixed simple and mucopurulent chronic bronchitis	Diagnosis	ICD-10-CM
J42	Unspecified chronic bronchitis	Diagnosis	ICD-10-CM
J43.0	Unilateral pulmonary emphysema [MacLeod's syndrome]	Diagnosis	ICD-10-CM
J43.1	Panlobular emphysema	Diagnosis	ICD-10-CM
J43.2	Centrilobular emphysema	Diagnosis	ICD-10-CM
J43.8	Other emphysema	Diagnosis	ICD-10-CM
J43.9	Emphysema, unspecified	Diagnosis	ICD-10-CM
J44	Other chronic obstructive pulmonary disease	Diagnosis	ICD-10-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J44.0	Chronic obstructive pulmonary disease with acute lower respiratory infection	Diagnosis	ICD-10-CM
J44.1	Chronic obstructive pulmonary disease with (acute) exacerbation	Diagnosis	ICD-10-CM
J44.9	Chronic obstructive pulmonary disease, unspecified	Diagnosis	ICD-10-CM
<b>DIABETES</b>			
250.01	Diabetes mellitus without mention of complication, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-09-CM
250.03	Diabetes mellitus without mention of complication, type I [juvenile type], uncontrolled	Diagnosis	ICD-09-CM
250.11	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-09-CM
250.13	Diabetes with ketoacidosis, type I [juvenile type], uncontrolled	Diagnosis	ICD-09-CM
250.21	Diabetes with hyperosmolarity, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-09-CM
250.23	Diabetes with hyperosmolarity, type I [juvenile type], uncontrolled	Diagnosis	ICD-09-CM
250.31	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-09-CM
250.33	Diabetes with other coma, type I [juvenile type], uncontrolled	Diagnosis	ICD-09-CM
250.41	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-09-CM
250.43	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-09-CM
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-09-CM
250.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-09-CM
250.61	Diabetes with neurological manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-09-CM
250.63	Diabetes with neurological manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-09-CM
250.71	Diabetes with peripheral circulatory disorders, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-09-CM
250.73	Diabetes with peripheral circulatory disorders, type I [juvenile type], uncontrolled	Diagnosis	ICD-09-CM
250.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-09-CM
250.83	Diabetes with other specified manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-09-CM
250.91	Diabetes with unspecified complication, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-09-CM
250.93	Diabetes with unspecified complication, type I [juvenile type], uncontrolled	Diagnosis	ICD-09-CM
E109	Type 1 diabetes mellitus without complications	Diagnosis	ICD-10-CM
E1065	Type 1 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E1010	Type 1 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E1069	Type 1 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E1011	Type 1 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E10641	Type 1 diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E1029	Type 1 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E1021	Type 1 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E10311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10319	Type 1 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E1036	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM

**Appendix G. List of 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, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E1037X1	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E1037X2	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E1037X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E1037X9	Type 1 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E1039	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E1040	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E1051	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E10618	Type 1 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E10620	Type 1 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E10621	Type 1 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E10622	Type 1 diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E10628	Type 1 diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E10630	Type 1 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E10638	Type 1 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E10649	Type 1 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E108	Type 1 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E1022	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E103599	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E103593	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E103592	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E103591	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E103559	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E103553	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E103552	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E103551	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E103549	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E103543	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E103542	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E103541	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM

**Appendix G. List of 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, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E103539	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E103533	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E103532	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E103531	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E103529	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E103523	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E103522	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E103521	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E103519	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E103513	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E103512	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E103511	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E103499	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E103493	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E103492	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E103491	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E103419	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E103413	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E103412	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E103411	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E103399	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM

**Appendix G. List of 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, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E103393	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E103392	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E103391	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E103319	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E103313	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E103312	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E103311	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E103299	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E103293	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E103292	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E103291	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E103219	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E103213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E103212	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E103211	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10610	Type 1 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E1049	Type 1 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E1044	Type 1 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E1043	Type 1 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E1042	Type 1 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E1041	Type 1 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E1059	Type 1 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E1052	Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
250.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-09-CM
250.10	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-09-CM
250.20	Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-09-CM

**Appendix G. List of 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, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
250.30	Diabetes with other coma, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-09-CM
250.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-09-CM
250.50	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-09-CM
250.60	Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-09-CM
250.70	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-09-CM
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-09-CM
250.90	Diabetes with unspecified complication, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-09-CM
250.02	Diabetes mellitus without mention of complication, type II or unspecified type, uncontrolled	Diagnosis	ICD-09-CM
250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	Diagnosis	ICD-09-CM
250.22	Diabetes with hyperosmolarity, type II or unspecified type, uncontrolled	Diagnosis	ICD-09-CM
250.32	Diabetes with other coma, type II or unspecified type, uncontrolled	Diagnosis	ICD-09-CM
250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	Diagnosis	ICD-09-CM
250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	Diagnosis	ICD-09-CM
250.62	Diabetes with neurological manifestations, type II or unspecified type, uncontrolled	Diagnosis	ICD-09-CM
250.72	Diabetes with peripheral circulatory disorders, type II or unspecified type, uncontrolled	Diagnosis	ICD-09-CM
250.82	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled	Diagnosis	ICD-09-CM
250.92	Diabetes with unspecified complication, type II or unspecified type, uncontrolled	Diagnosis	ICD-09-CM
E11.00	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E11.01	Type 2 diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E11.10	Type 2 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E11.11	Type 2 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E11.311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3211	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3212	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3213	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3219	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM

**Appendix G. List of 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, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E11.3291	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3292	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3293	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3299	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.3311	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3312	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3313	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3319	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.3391	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3392	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3393	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3399	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.3411	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3412	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3413	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3419	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.3491	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3492	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3493	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3499	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.3511	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM

**Appendix G. List of 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, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E11.3512	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3513	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3519	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.3521	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E11.3522	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E11.3523	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E11.3529	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E11.3531	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E11.3532	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E11.3533	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E11.3539	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E11.3541	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E11.3542	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E11.3543	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E11.3549	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E11.3551	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E11.3552	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E11.3553	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E11.3559	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E11.3591	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3592	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3593	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3599	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E11.36	Type 2 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E11.37X1	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E11.37X2	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E11.37X3	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E11.37X9	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E11.39	Type 2 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E11.40	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E11.41	Type 2 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E11.42	Type 2 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E11.43	Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E11.44	Type 2 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E11.49	Type 2 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E11.51	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E11.52	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E11.59	Type 2 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E11.610	Type 2 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E11.618	Type 2 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E11.620	Type 2 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E11.621	Type 2 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E11.622	Type 2 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E11.628	Type 2 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E11.630	Type 2 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E11.638	Type 2 diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E11.641	Type 2 diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E11.649	Type 2 diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E11.65	Type 2 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E11.69	Type 2 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E11.8	Type 2 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E11.9	Type 2 diabetes mellitus without complications	Diagnosis	ICD-10-CM
E13.00	Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E13.01	Other specified diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E13.10	Other specified diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E13.11	Other specified diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E13.21	Other specified diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E13.29	Other specified diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E13.311	Other specified diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.319	Other specified diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3211	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3212	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3213	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3219	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3291	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3292	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3293	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3299	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3311	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3312	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3313	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3319	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3391	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3392	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3393	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3399	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3411	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3412	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3413	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM

**Appendix G. List of 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, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E13.3419	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3491	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3492	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3493	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3499	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3511	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3512	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3513	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3519	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3521	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E13.3522	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E13.3523	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E13.3529	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E13.3531	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E13.3532	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E13.3533	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E13.3539	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E13.3541	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E13.3542	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E13.3543	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E13.3549	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E13.3551	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E13.3552	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E13.3553	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E13.3559	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E13.3591	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3592	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3593	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3599	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.36	Other specified diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E13.37X1	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E13.37X2	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E13.37X3	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E13.37X9	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E13.39	Other specified diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E13.40	Other specified diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E13.41	Other specified diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E13.42	Other specified diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E13.43	Other specified diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E13.44	Other specified diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E13.49	Other specified diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E13.51	Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E13.52	Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E13.59	Other specified diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E13.610	Other specified diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E13.618	Other specified diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E13.620	Other specified diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E13.621	Other specified diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E13.622	Other specified diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E13.628	Other specified diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E13.630	Other specified diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E13.638	Other specified diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E13.641	Other specified diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E13.649	Other specified diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E13.65	Other specified diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E13.69	Other specified diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E13.8	Other specified diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E13.9	Other specified diabetes mellitus without complications	Diagnosis	ICD-10-CM
648.0	Maternal diabetes mellitus complicating pregnancy, childbirth, or the puerperium	Diagnosis	ICD-09-CM
648.00	Maternal diabetes mellitus, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	Diagnosis	ICD-09-CM
648.01	Maternal diabetes mellitus with delivery	Diagnosis	ICD-09-CM
648.02	Maternal diabetes mellitus with delivery, with current postpartum complication	Diagnosis	ICD-09-CM
648.03	Maternal diabetes mellitus, antepartum	Diagnosis	ICD-09-CM
648.04	Maternal diabetes mellitus, complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	Diagnosis	ICD-09-CM
O24319	Unspecified pre-existing diabetes mellitus in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O2432	Unspecified pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O2492	Unspecified diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O24913	Unspecified diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24912	Unspecified diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24911	Unspecified diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2493	Unspecified diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM
O24019	Pre-existing type 1 diabetes mellitus, in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O24919	Unspecified diabetes mellitus in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O24819	Other pre-existing diabetes mellitus in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O24119	Pre-existing type 2 diabetes mellitus, in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O24011	Pre-existing type 1 diabetes mellitus, in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2482	Other pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O24813	Other pre-existing diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24812	Other pre-existing diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24811	Other pre-existing diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24313	Unspecified pre-existing diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24312	Unspecified pre-existing diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24311	Unspecified pre-existing diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2412	Pre-existing type 2 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O24113	Pre-existing type 2 diabetes mellitus, in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24112	Pre-existing type 2 diabetes mellitus, in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24111	Pre-existing type 2 diabetes mellitus, in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2402	Pre-existing type 1 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O24013	Pre-existing type 1 diabetes mellitus, in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24012	Pre-existing type 1 diabetes mellitus, in pregnancy, second trimester	Diagnosis	ICD-10-CM
O2403	Pre-existing type 1 diabetes mellitus, in the puerperium	Diagnosis	ICD-10-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
O2483	Other pre-existing diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM
O2433	Unspecified pre-existing diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM
O2413	Pre-existing type 2 diabetes mellitus, in the puerperium	Diagnosis	ICD-10-CM
648.81	Abnormal maternal glucose tolerance, with delivery	Diagnosis	ICD-09-CM
648.82	Abnormal maternal glucose tolerance, with delivery, with current postpartum complication	Diagnosis	ICD-09-CM
648.83	Abnormal maternal glucose tolerance, antepartum	Diagnosis	ICD-09-CM
648.84	Abnormal maternal glucose tolerance complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	Diagnosis	ICD-09-CM
O24.414	Gestational diabetes mellitus in pregnancy, insulin controlled	Diagnosis	ICD-10-CM
O24.415	Gestational diabetes mellitus in pregnancy, controlled by oral hypoglycemic drugs	Diagnosis	ICD-10-CM
O24.419	Gestational diabetes mellitus in pregnancy, unspecified control	Diagnosis	ICD-10-CM
O24.425	Gestational diabetes mellitus in childbirth, controlled by oral hypoglycemic drugs	Diagnosis	ICD-10-CM
O24.429	Gestational diabetes mellitus in childbirth, unspecified control	Diagnosis	ICD-10-CM
O24.434	Gestational diabetes mellitus in the puerperium, insulin controlled	Diagnosis	ICD-10-CM
O24.435	Gestational diabetes mellitus in puerperium, controlled by oral hypoglycemic drugs	Diagnosis	ICD-10-CM
O24.439	Gestational diabetes mellitus in the puerperium, unspecified control	Diagnosis	ICD-10-CM
<b>OBESITY</b>			
278.00	Obesity, unspecified	Diagnosis	ICD-09-CM
278.01	Morbid obesity	Diagnosis	ICD-09-CM
539.0	Complications of gastric band procedure	Diagnosis	ICD-09-CM
539.01	Infection due to gastric band procedure	Diagnosis	ICD-09-CM
539.09	Other complications of gastric band procedure	Diagnosis	ICD-09-CM
539.8	Complications of other bariatric procedure	Diagnosis	ICD-09-CM
539.81	Infection due to other bariatric procedure	Diagnosis	ICD-09-CM
539.89	Other complications of other bariatric procedure	Diagnosis	ICD-09-CM
649.1	Obesity complicating pregnancy, childbirth, or the puerperium	Diagnosis	ICD-09-CM
649.10	Obesity complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable	Diagnosis	ICD-09-CM
649.11	Obesity complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	Diagnosis	ICD-09-CM
649.12	Obesity complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	Diagnosis	ICD-09-CM
649.13	Obesity complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication	Diagnosis	ICD-09-CM
649.14	Obesity complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	Diagnosis	ICD-09-CM
649.2	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium	Diagnosis	ICD-09-CM
649.20	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable	Diagnosis	ICD-09-CM
649.21	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	Diagnosis	ICD-09-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
649.22	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	Diagnosis	ICD-09-CM
649.23	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication	Diagnosis	ICD-09-CM
649.24	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	Diagnosis	ICD-09-CM
V85.3	Body Mass Index between 30-39, adult	Diagnosis	ICD-09-CM
V85.30	Body Mass Index 30.0-30.9, adult	Diagnosis	ICD-09-CM
V85.31	Body Mass Index 31.0-31.9, adult	Diagnosis	ICD-09-CM
V85.32	Body Mass Index 32.0-32.9, adult	Diagnosis	ICD-09-CM
V85.33	Body Mass Index 33.0-33.9, adult	Diagnosis	ICD-09-CM
V85.34	Body Mass Index 34.0-34.9, adult	Diagnosis	ICD-09-CM
V85.35	Body Mass Index 35.0-35.9, adult	Diagnosis	ICD-09-CM
V85.36	Body Mass Index 36.0-36.9, adult	Diagnosis	ICD-09-CM
V85.37	Body Mass Index 37.0-37.9, adult	Diagnosis	ICD-09-CM
V85.38	Body Mass Index 38.0-38.9, adult	Diagnosis	ICD-09-CM
V85.39	Body Mass Index 39.0-39.9, adult	Diagnosis	ICD-09-CM
V85.4	Body Mass Index 40 and over, adult	Diagnosis	ICD-09-CM
V85.41	Body Mass Index 40.0-44.9, adult	Diagnosis	ICD-09-CM
V85.42	Body Mass Index 45.0-49.9, adult	Diagnosis	ICD-09-CM
V85.43	Body Mass Index 50.0-59.9, adult	Diagnosis	ICD-09-CM
V85.44	Body Mass Index 60.0-69.9, adult	Diagnosis	ICD-09-CM
V85.45	Body Mass Index 70 and over, adult	Diagnosis	ICD-09-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
E66.8	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
O99.210	Obesity complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O99.211	Obesity complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99.212	Obesity complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99.213	Obesity complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99.214	Obesity complicating childbirth	Diagnosis	ICD-10-CM
O99.215	Obesity complicating the puerperium	Diagnosis	ICD-10-CM
O99.840	Bariatric surgery status complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O99.841	Bariatric surgery status complicating pregnancy, first trimester	Diagnosis	ICD-10-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
O99.842	Bariatric surgery status complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99.843	Bariatric surgery status complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99.844	Bariatric surgery status complicating childbirth	Diagnosis	ICD-10-CM
O99.845	Bariatric surgery status complicating the puerperium	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
Z68.41	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) 50-59.9, 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
278.03	Obesity hypoventilation syndrome	Diagnosis	ICD-09-CM
E66.2	Morbid (severe) obesity with alveolar hypoventilation	Diagnosis	ICD-10-CM
43644	Laparoscopy, surgical, gastric restrictive procedure; with gastric bypass and Roux-en-Y gastroenterostomy (roux limb 150 cm or less)	Procedure	CPT-4
43645	Laparoscopy, surgical, gastric restrictive procedure; with gastric bypass and small intestine reconstruction to limit absorption	Procedure	CPT-4
43770	Laparoscopy, surgical, gastric restrictive procedure; placement of adjustable gastric restrictive device (eg, gastric band and subcutaneous port components)	Procedure	CPT-4
43842	Gastric restrictive procedure, without gastric bypass, for morbid obesity; vertical-banded gastroplasty	Procedure	CPT-4
43843	Gastric restrictive procedure, without gastric bypass, for morbid obesity; other than vertical-banded gastroplasty	Procedure	CPT-4
43845	Gastric restrictive procedure with partial gastrectomy, pylorus-preserving duodenoileostomy and ileoileostomy (50 to 100 cm common channel) to limit absorption	Procedure	CPT-4
43846	Gastric restrictive procedure, with gastric bypass for morbid obesity; with short limb (150 cm or less) Roux-en-Y gastroenterostomy	Procedure	CPT-4
43847	Gastric restrictive procedure, with gastric bypass for morbid obesity; with small intestine reconstruction to limit absorption	Procedure	CPT-4
43.89	Open and other partial gastrectomy	Procedure	ICD-09-CM
44.38	Laparoscopic gastroenterostomy	Procedure	ICD-09-CM
44.39	Other gastroenterostomy without gastrectomy	Procedure	ICD-09-CM
44.68	Laparoscopic gastroplasty	Procedure	ICD-09-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
44.95	Laparoscopic gastric restrictive procedure	Procedure	ICD-09-CM
45.51	Isolation of segment of small intestine	Procedure	ICD-09-CM
45.91	Small-to-small intestinal anastomosis	Procedure	ICD-09-CM
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 Approach	Procedure	ICD-10-PCS
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
0D160JB	Bypass Stomach to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D160JL	Bypass Stomach to Transverse Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D160K9	Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
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 Approach	Procedure	ICD-10-PCS
0D160Z9	Bypass Stomach to Duodenum, Open Approach	Procedure	ICD-10-PCS
0D160ZA	Bypass Stomach to Jejunum, Open Approach	Procedure	ICD-10-PCS
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 Endoscopic Approach	Procedure	ICD-10-PCS
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, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164J9	Bypass Stomach to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164JA	Bypass Stomach to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164JB	Bypass Stomach to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164JL	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

**Appendix G. List of 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, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
0D164KL	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 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
0D168JL	Bypass Stomach to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168K9	Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168KB	Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168KL	Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
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 Approach	Procedure	ICD-10-PCS
0D1907A	Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Open Approach	Procedure	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	Bypass Duodenum to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D190K9	Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

**Appendix G. List of 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, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
0D190KA	Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D190KB	Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
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, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1947A	Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1947B	Bypass Duodenum to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194J9	Bypass Duodenum to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194JA	Bypass Duodenum to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194JB	Bypass Duodenum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194K9	Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194KA	Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194KB	Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
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 or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1987A	Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1987B	Bypass Duodenum to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198J9	Bypass Duodenum to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198JA	Bypass Duodenum to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198JB	Bypass Duodenum to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198K9	Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198KA	Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

**Appendix G. List of 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, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
0D198KB	Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
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	Procedure	ICD-10-PCS
0D1A0JB	Bypass Jejunum to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0KA	Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
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
0D1A0ZB	Bypass Jejunum to Ileum, Open Approach	Procedure	ICD-10-PCS
0D1A47A	Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A47B	Bypass Jejunum to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4JA	Bypass Jejunum to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4JB	Bypass Jejunum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4KA	Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4KB	Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4ZA	Bypass Jejunum to Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4ZB	Bypass Jejunum to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A87A	Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A87B	Bypass Jejunum to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8JA	Bypass Jejunum to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8JB	Bypass Jejunum to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8KA	Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8KB	Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
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

**Appendix G. List of 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, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
0D1B0JB	Bypass Ileum to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0KB	Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0ZB	Bypass Ileum to Ileum, Open Approach	Procedure	ICD-10-PCS
0D1B47B	Bypass Ileum to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4JB	Bypass Ileum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4KB	Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4ZB	Bypass Ileum to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B87B	Bypass Ileum to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8JB	Bypass Ileum to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8KB	Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8ZB	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
0DB60Z3	Excision of Stomach, Open Approach, Vertical	Procedure	ICD-10-PCS
0DB60ZZ	Excision of Stomach, Open Approach	Procedure	ICD-10-PCS
0DB63Z3	Excision of Stomach, Percutaneous Approach, Vertical	Procedure	ICD-10-PCS
0DB63ZZ	Excision of Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DB67Z3	Excision of Stomach, Via Natural or Artificial Opening, Vertical	Procedure	ICD-10-PCS
0DB67ZZ	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
0DB80ZZ	Excision of Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DB90ZZ	Excision of Duodenum, Open Approach	Procedure	ICD-10-PCS
0DBB0ZZ	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 Approach	Procedure	ICD-10-PCS
0F190Z3	Bypass Common Bile Duct to Duodenum, Open Approach	Procedure	ICD-10-PCS
0TRB07Z	Replacement of Bladder with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
<b>INFLUENZA VACCINATION</b>			
90630	Influenza virus vaccine, quadrivalent (IIV4), split virus, preservative free, for intradermal use	Procedure	CPT-4
90653	Influenza vaccine, inactivated (IIV), subunit, adjuvanted, for intramuscular use	Procedure	CPT-4
90654	Influenza virus vaccine, trivalent (IIV3), split virus, preservative-free, for intradermal use	Procedure	CPT-4
90655	Influenza virus vaccine, trivalent (IIV3), split virus, preservative free, 0.25 mL dosage, for intramuscular use	Procedure	CPT-4
90656	Influenza virus vaccine, trivalent (IIV3), split virus, preservative free, 0.5 mL dosage, for intramuscular use	Procedure	CPT-4
90657	Influenza virus vaccine, trivalent (IIV3), split virus, 0.25 mL dosage, for intramuscular use	Procedure	CPT-4

**Appendix G. List of 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, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
90658	Influenza virus vaccine, trivalent (IIV3), split virus, 0.5 mL dosage, for intramuscular use	Procedure	CPT-4
90659	Influenza virus vaccine, whole virus, for intramuscular or jet injection use	Procedure	CPT-4
90660	Influenza virus vaccine, trivalent, live (LAIV3), for intranasal use	Procedure	CPT-4
90661	Influenza virus vaccine, trivalent (ccIIV3), derived from cell cultures, subunit, preservative and antibiotic free, 0.5 mL dosage, for intramuscular use	Procedure	CPT-4
90662	Influenza virus vaccine (IIV), split virus, preservative free, enhanced immunogenicity via increased antigen content, for intramuscular use	Procedure	CPT-4
90663	Influenza virus vaccine, pandemic formulation, H1N1	Procedure	CPT-4
90664	Influenza virus vaccine, live (LAIV), pandemic formulation, for intranasal use	Procedure	CPT-4
90666	Influenza virus vaccine (IIV), pandemic formulation, split virus, preservative free, for intramuscular use	Procedure	CPT-4
90667	Influenza virus vaccine (IIV), pandemic formulation, split virus, adjuvanted, for intramuscular use	Procedure	CPT-4
90668	Influenza virus vaccine (IIV), pandemic formulation, split virus, for intramuscular use	Procedure	CPT-4
90672	Influenza virus vaccine, quadrivalent, live (LAIV4), for intranasal use	Procedure	CPT-4
90673	Influenza virus vaccine, trivalent (RIV3), derived from recombinant DNA, hemagglutinin (HA) protein only, preservative and antibiotic free, for intramuscular use	Procedure	CPT-4
90674	Influenza virus vaccine, quadrivalent (ccIIV4), derived from cell cultures, subunit, preservative and antibiotic free, 0.5 mL dosage, for intramuscular use	Procedure	CPT-4
90685	Influenza virus vaccine, quadrivalent (IIV4), split virus, preservative free, 0.25 mL, for intramuscular use	Procedure	CPT-4
90686	Influenza virus vaccine, quadrivalent (IIV4), split virus, preservative free, 0.5 mL dosage, for intramuscular use	Procedure	CPT-4
90687	Influenza virus vaccine, quadrivalent (IIV4), split virus, 0.25 mL dosage, for intramuscular use	Procedure	CPT-4
90688	Influenza virus vaccine, quadrivalent (IIV4), split virus, 0.5 mL dosage, for intramuscular use	Procedure	CPT-4
90682	Influenza virus vaccine, quadrivalent (RIV4), derived from recombinant DNA, hemagglutinin (HA) protein only, preservative and antibiotic free, for intramuscular use	Procedure	CPT-4
90756	Influenza virus vaccine, quadrivalent (ccIIV4), derived from cell cultures, subunit, antibiotic free, 0.5mL dosage, for intramuscular use	Procedure	CPT-4
Q2033	Influenza vaccine, recombinant hemagglutinin antigens, for intramuscular use (Flublok)	Procedure	HCPCS
Q2034	Influenza virus vaccine, split virus, for intramuscular use (Agriflu)	Procedure	HCPCS
Q2035	Influenza virus vaccine, split virus, when administered to individuals 3 years of age and older, for intramuscular use (AFLURIA)	Procedure	HCPCS
Q2036	Influenza virus vaccine, split virus, when administered to individuals 3 years of age and older, for intramuscular use (FLULAVAL)	Procedure	HCPCS
Q2037	Influenza virus vaccine, split virus, when administered to individuals 3 years of age and older, for intramuscular use (FLUVIRIN)	Procedure	HCPCS
Q2038	Influenza virus vaccine, split virus, when administered to individuals 3 years of age and older, for intramuscular use (Fluzone)	Procedure	HCPCS

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
4037F	Influenza immunization ordered or administered (COPD, PV, CKD, ESRD)(IBD)	Procedure	CPT-2
4274F	Influenza immunization administered or previously received (HIV) (P-ESRD)	Procedure	CPT-2
G0008	Administration of influenza virus vaccine	Procedure	HCPCS
G8482	Influenza immunization administered or previously received	Procedure	HCPCS
G8636	Influenza immunization administered or previously received	Procedure	HCPCS
G9141	Influenza A (H1N1) immunization administration (includes the physician counseling the patient/family)	Procedure	HCPCS
G9142	Influenza A (H1N1) vaccine, any route of administration	Procedure	HCPCS
Q0034	Administration of influenza vaccine to Medicare beneficiaries by participating demonstration sites	Procedure	HCPCS
Q2039	Influenza virus vaccine, not otherwise specified	Procedure	HCPCS
<b>PNEUMOCOCCAL VACCINATION</b>			
90669	Pneumococcal conjugate vaccine, 7 valent (PCV7), for intramuscular use	Procedure	CPT-4
90732	Pneumococcal polysaccharide vaccine, 23-valent (PPSV23), adult or immunosuppressed patient dosage, when administered to individuals 2 years or older, for subcutaneous or intramuscular use	Procedure	CPT-4
90670	Pneumococcal conjugate vaccine, 13 valent (PCV13), for intramuscular use	Procedure	CPT-4
G0009	Administration of pneumococcal vaccine	Procedure	HCPCS
G8864	Pneumococcal vaccine administered or previously received	Procedure	HCPCS
4040F	Pneumococcal vaccine administered or previously received (COPD) (PV), (IBD)	Procedure	CPT-2

### Appendix H. Specifications Defining Parameters for this Request

This request examined "ordinal" endpoints related to influenza (i.e., select complications of influenza, of increasing severity) among one cohort: individuals diagnosed in the outpatient, ambulatory, or emergency department setting with influenza-like illness (ILI) in the Sentinel Distributed Database (SDD).

**Query period:** July 1, 2014 - June 30, 2015, July 1, 2015 - June 30, 2016, July 1, 2016 - June 30, 2017  
**Coverage requirement:** Medical & Drug Coverage  
**Pre-index enrollment requirement:** 183 days  
**Post-index enrollment requirement:** 0 days  
**Stratifications:** Age, Sex, Year-Month  
**Enrollment gap:** 45 days  
**Age groups:** 6 months-<5 years, 5-<18 years, 18-<50, 50-<65 years, 65+ years  
**Envelope macro:** \*Off: Do not reclassify encounters during inpatient stay as inpatient  
**MFU output:** Requested  
**Distribution of Index output:** No

Scenario	Exposure					Inclusion/Exclusion					Event washout period	Care setting		
	Index exposure	Care setting	Washout period	Incident with respect to	Cohort definition	Exposure episode length	Truncation criteria (in addition to occurrence of event)	Event	Type	Window			Care setting	Event
1	Influenza-Like Illness (ILI) Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *Data Partners (DP) end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for National Drug Code (NDC) For Procedures (PX): *Ambulatory visit; *Other ambulatory visit; *Emergency department;	None	0	---
2	ILI Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Hospitalization (Admission Date; Discharge Status = Alive, Expired, Unknown)	0	Inpatient
3	ILI Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Extracorporeal Membrane Oxygenation (ECMO)	0	Any

### Appendix H. Specifications Defining Parameters for this Request

This request examined "ordinal" endpoints related to influenza (i.e., select complications of influenza, of increasing severity) among one cohort: individuals diagnosed in the outpatient, ambulatory, or emergency department setting with influenza-like illness (ILI) in the Sentinel Distributed Database (SDD).

**Query period:** July 1, 2014 - June 30, 2015, July 1, 2015 - June 30, 2016, July 1, 2016 - June 30, 2017  
**Coverage requirement:** Medical & Drug Coverage  
**Pre-index enrollment requirement:** 183 days  
**Post-index enrollment requirement:** 0 days  
**Stratifications:** Age, Sex, Year-Month  
**Enrollment gap:** 45 days  
**Age groups:** 6 months-<5 years, 5-<18 years, 18-<50, 50-<65 years, 65+ years  
**Envelope macro:** \*Off: Do not reclassify encounters during inpatient stay as inpatient  
**MFU output:** Requested  
**Distribution of Index output:** No

Scenario	Exposure					Inclusion/Exclusion					Event	Event washout period	Care setting	
	Index exposure	Care setting	Washout period	Incident with respect to	Cohort definition	Exposure episode length	Truncation criteria (in addition to occurrence of event)	Event	Type	Window				Care setting
4	ILI Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Mechanical ventilation	0	Any
5	ILI Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Supplemental oxygen	0	Any
6	ILI Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Biphasic positive airway pressure (BIPAP)	0	Any
7	ILI Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Critical Care	0	Any

### Appendix H. Specifications Defining Parameters for this Request

This request examined "ordinal" endpoints related to influenza (i.e., select complications of influenza, of increasing severity) among one cohort: individuals diagnosed in the outpatient, ambulatory, or emergency department setting with influenza-like illness (ILI) in the Sentinel Distributed Database (SDD).

**Query period:** July 1, 2014 - June 30, 2015, July 1, 2015 - June 30, 2016, July 1, 2016 - June 30, 2017

**Coverage requirement:** Medical & Drug Coverage

**Pre-index enrollment requirement:** 183 days

**Post-index enrollment requirement:** 0 days

**Stratifications:** Age, Sex, Year-Month

**Enrollment gap:** 45 days

**Age groups:** 6 months-<5 years, 5-<18 years, 18-<50, 50-<65 years, 65+ years

**Envelope macro:** \*Off: Do not reclassify encounters during inpatient stay as inpatient

**MFU output:** Requested

**Distribution of Index output:** No

Scenario	Exposure					Inclusion/Exclusion					Event washout period	Care setting		
	Index exposure	Care setting	Washout period	Incident with respect to	Cohort definition	Exposure episode length	Truncation criteria (in addition to occurrence of event)	Event	Type	Window			Care setting	Event
8	ILI Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Discharge from hospital alive (Admission Date; Discharge Status = Alive)	0	Inpatient
9	ILI Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Death	0	Any
10	Pneumonia and Influenza (P&I) Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	None	0	---
11	P&I Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Hospitalization (Admission Date; Discharge Status = Alive, Expired, Unknown)	0	Inpatient

**Appendix H. Specifications Defining Parameters for this Request**

This request examined "ordinal" endpoints related to influenza (i.e., select complications of influenza, of increasing severity) among one cohort: individuals diagnosed in the outpatient, ambulatory, or emergency department setting with influenza-like illness (ILI) in the Sentinel Distributed Database (SDD).

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**Coverage requirement:** Medical & Drug Coverage  
**Pre-index enrollment requirement:** 183 days  
**Post-index enrollment requirement:** 0 days  
**Stratifications:** Age, Sex, Year-Month  
**Enrollment gap:** 45 days  
**Age groups:** 6 months-<5 years, 5-<18 years, 18-<50, 50-<65 years, 65+ years  
**Envelope macro:** \*Off: Do not reclassify encounters during inpatient stay as inpatient  
**MFU output:** Requested  
**Distribution of Index output:** No

Scenario	Exposure					Inclusion/Exclusion					Event	Event washout period	Care setting	
	Index exposure	Care setting	Washout period	Incident with respect to	Cohort definition	Exposure episode length	Truncation criteria (in addition to occurrence of event)	Event	Type	Window				Care setting
12	P&I Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	ECMO	0	Any
13	P&I Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Mechanical ventilation	0	Any
14	P&I Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Supplemental oxygen	0	Any
15	P&I Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	BiPAP	0	Any

### Appendix H. Specifications Defining Parameters for this Request

This request examined "ordinal" endpoints related to influenza (i.e., select complications of influenza, of increasing severity) among one cohort: individuals diagnosed in the outpatient, ambulatory, or emergency department setting with influenza-like illness (ILI) in the Sentinel Distributed Database (SDD).

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**Post-index enrollment requirement:** 0 days  
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**Enrollment gap:** 45 days  
**Age groups:** 6 months-<5 years, 5-<18 years, 18-<50, 50-<65 years, 65+ years  
**Envelope macro:** \*Off: Do not reclassify encounters during inpatient stay as inpatient  
**MFU output:** Requested  
**Distribution of Index output:** No

Scenario	Exposure						Inclusion/Exclusion					Event	Event washout period	Care setting
	Index exposure	Care setting	Washout period	Incident with respect to	Cohort definition	Exposure episode length	Truncation criteria (in addition to occurrence of event)	Event	Type	Window	Care setting			
16	P&I Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Critical Care	0	Any
17	P&I Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Discharge from hospital alive (Admission Date; Discharge Status = Alive)	0	Inpatient
18	P&I Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Death	0	Any

### Appendix H. Specifications Defining Parameters for this Request

This request examined "ordinal" endpoints related to influenza (i.e., select complications of influenza, of increasing severity) among one cohort: individuals diagnosed in the outpatient, ambulatory, or emergency department setting with influenza-like illness (ILI) in the Sentinel Distributed Database (SDD).

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**Envelope macro:** \*Off: Do not reclassify encounters during inpatient stay as inpatient  
**MFU output:** Requested  
**Distribution of Index output:** No

Scenario	Exposure						Inclusion/Exclusion							
	Index exposure	Care setting	Washout period	Incident with respect to	Cohort definition	Exposure episode length	Truncation criteria (in addition to occurrence of event)	Event	Type	Window	Care setting	Event	Event washout period	Care setting
19	Medically Attended Acute Respiratory Illness (MAARI) Definition #2 Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	None	0	---
20	MAARI Definition #2 Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Hospitalization (Admission Date; Discharge Status = Alive, Expired, Unknown)	0	Any
21	MAARI Definition #2 Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	ECMO	0	Any

### Appendix H. Specifications Defining Parameters for this Request

This request examined "ordinal" endpoints related to influenza (i.e., select complications of influenza, of increasing severity) among one cohort: individuals diagnosed in the outpatient, ambulatory, or emergency department setting with influenza-like illness (ILI) in the Sentinel Distributed Database (SDD).

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**Envelope macro:** \*Off: Do not reclassify encounters during inpatient stay as inpatient  
**MFU output:** Requested  
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Scenario	Exposure						Inclusion/Exclusion					Event washout period	Care setting	
	Index exposure	Care setting	Washout period	Incident with respect to	Cohort definition	Exposure episode length	Truncation criteria (in addition to occurrence of event)	Event	Type	Window	Care setting			Event
22	MAARI Definition #2 Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Mechanical ventilation	0	Any
23	MAARI Definition #2 Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Supplemental oxygen	0	Any
24	MAARI Definition #2 Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	BIPAP	0	Any
25	MAARI Definition #2 Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Critical Care	0	Any

### Appendix H. Specifications Defining Parameters for this Request

This request examined "ordinal" endpoints related to influenza (i.e., select complications of influenza, of increasing severity) among one cohort: individuals diagnosed in the outpatient, ambulatory, or emergency department setting with influenza-like illness (ILI) in the Sentinel Distributed Database (SDD).

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Scenario	Exposure					Inclusion/Exclusion					Event washout period	Care setting		
	Index exposure	Care setting	Washout period	Incident with respect to	Cohort definition	Exposure episode length	Truncation criteria (in addition to occurrence of event)	Event	Type	Window			Care setting	Event
26	MAARI Definition #2 Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Discharge from hospital alive (Admission Date; Discharge Status = Alive)	0	Inpatient
27	MAARI Definition #2 Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for NDCs For PXs: *Ambulatory visit; *Other ambulatory visit; *Emergency department;	Death	0	Any

Note: 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 (NDCs) are checked against First Data Bank's "National Drug Data File (NDDF®) Plus"

**Appendix I. Specifications Defining Parameters for Baseline Characteristics in this Request**

**Baseline Characteristics**

<b>Condition</b>	<b>Care setting</b>	<b>Evaluation period start</b>	<b>Evaluation period end</b>
<b>User-Defined</b>			
Influenza Vaccination (season specific)	Any	0	0
Influenza Vaccination (season specific)	Any	-183	0
Flu Test	Any	-7	7
Asthma	Any	-183	0
Diabetes	Any	-183	0
Chronic Obstructive Pulmonary Disease (COPD)	Any	-183	0
Obesity	Any	-183	0
Pneumococcal vaccination	Any	Entire History	0
<b>Automatic</b>			
Sex	---	---	---
Age	---	---	---
Race/ethnicity	---	---	---
Healthcare utilization	---	-183	0
Combined prior comorbidity score	---	-183	0

Appendix J. Diagram Detailing the Design of this Request

