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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 3 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 cohorts: individuals diagnosed in the outpatient, ambulatory, or emergency department setting with influenza-like illness (ILI)¹ in the Sentinel Distributed Database (SDD). This is report 3 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, and medically attended acute respiratory illness 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 on October 7, 2019. The study period included data from July 1, 2016 through June 30, 2017. 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 3 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) 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>).

¹Eick-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 2016 and June 2017

Characteristic¹	Number	
Number of episodes	483,346	
Number of unique patients	480,935	
Demographics	Mean	Standard Deviation
Mean Age (Years)	39.4	18.7
Age (Years)	Number	Percent
6 Months - 4	34,465	7.1%
5-17	119,166	24.7%
18-49	144,261	29.8%
50-64	69,946	14.5%
65+	115,508	23.9%
Sex		
Female	264,536	55.0%
Male	216,388	45.0%
Other	11	0.0%
Year		
2016	55,985	11.6%
2017	427,361	88.4%
Recorded history of:	Number	Percent
Day 0		
Influenza vaccination	1,783	0.4%
Day -7 to Day 7		
Influenza Testing	363,779	75.3%
Day -183 to Day 0	Mean	Standard Deviation
Prior combined comorbidity raw score	0.5	1.4
	Number	Percent
Influenza vaccination	138,062	28.6%
Asthma	42,796	8.9%
Chronic obstructive pulmonary disease	21,236	4.4%
Diabetes	55,034	11.4%
Obesity	44,856	9.3%
Enrollment History to Day 0		
Pneumococcal vaccination	144,272	29.8%
Health Service Utilization Intensity:	Mean	Standard Deviation
Mean number of ambulatory encounters (AV)	7.3	8.5
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	0.3
Mean number of other ambulatory encounters (OA)	1.4	4.5
Mean number of unique drug classes	5.6	3.8
Mean number of generics	5.9	4.2
Mean number of filled prescriptions	11.8	13.5

¹All 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 2016 and June 2017

Characteristic¹	Number	
Number of episodes	41,793	
Number of unique patients	41,758	
Demographics	Mean	Standard Deviation
Mean Age (Years)	50.9	18.6
Age (Years)	Number	Percent
6 Months - 4	2,474	5.9%
5-17	6,321	15.1%
18-49	8,878	21.2%
50-64	5,973	14.3%
65+	18,147	43.4%
Sex		
Female	23,597	56.5%
Male	*****	*****
Other	*****	*****
Year		
2016	5,468	13.1%
2017	36,325	86.9%
Recorded history of:	Number	Percent
Day 0		
Influenza vaccination	169	0.4%
Day -7 to Day 7		
Influenza Testing	31,401	75.1%
Day -183 to Day 0	Mean	Standard Deviation
Prior combined comorbidity raw score	1.7	2.3
	Number	Percent
Influenza vaccination	13,782	33.0%
Asthma	5,617	13.4%
Chronic obstructive pulmonary disease	5,785	13.8%
Diabetes	9,882	23.6%
Obesity	5,927	14.2%
Enrollment History to Day 0		
Pneumococcal vaccination	17,570	42.0%
Health Service Utilization Intensity:	Mean	Standard Deviation
Mean number of ambulatory encounters (AV)	10.3	12.9
Mean number of emergency room encounters (ED)	1.1	1.5
Mean number of inpatient hospital encounters (IP)	0.2	0.5
Mean number of non-acute institutional encounters (IS)	0.1	0.5
Mean number of other ambulatory encounters (OA)	3.8	9.1
Mean number of unique drug classes	6.3	4.6
Mean number of generics	6.7	5.1
Mean number of filled prescriptions	18	19.3

¹All 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 2016 and June 2017

Characteristic¹	Number	
Number of episodes	74,307	
Number of unique patients	74,215	
Demographics	Mean	Standard Deviation
Mean Age (Years)	59.2	17.7
Age (Years)	Number	Percent
6 Months - 4	2,912	3.9%
5-17	7,412	10.0%
18-49	11,500	15.5%
50-64	10,379	14.0%
65+	42,104	56.7%
Sex		
Female	42,162	56.8%
Male	*****	*****
Other	*****	*****
Year		
2016	9,618	12.9%
2017	64,689	87.1%
Recorded history of:	Number	Percent
Day 0		
Influenza vaccination	373	0.5%
Day -7 to Day 7		
Influenza Testing	43,518	58.6%
Day -183 to Day 0	Mean	Standard Deviation
Prior combined comorbidity raw score	2.5	2.6
	Number	%
Influenza vaccination	28,721	38.7%
Asthma	11,897	16.0%
Chronic obstructive pulmonary disease	16,871	22.7%
Diabetes	22,301	30.0%
Obesity	12,798	17.2%
Enrollment History to Day 0		
Pneumococcal vaccination	35,736	48.1%
Health Service Utilization Intensity:	Mean	Standard Deviation
Mean number of ambulatory encounters (AV)	12.3	14.5
Mean number of emergency room encounters (ED)	1	1.6
Mean number of inpatient hospital encounters (IP)	0.5	0.8
Mean number of non-acute institutional encounters (IS)	0.1	0.7
Mean number of other ambulatory encounters (OA)	5	10.1
Mean number of unique drug classes	7.4	4.9
Mean number of generics	7.9	5.4
Mean number of filled prescriptions	21.8	21.2

¹All 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 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 2016 and June 2017

Characteristic¹	Number	
Number of episodes	447,587	
Number of unique patients	434,410	
Demographics	Mean	Standard Deviation
Mean Age (Years)	45.7	19.4
Age (Years)	Number	Percent
6 Months - 4	31,042	6.9%
5-17	91,342	20.4%
18-49	105,638	23.6%
50-64	63,260	14.1%
65+	156,305	34.9%
Sex		
Female	246,427	56.7%
Male	*****	*****
Other	*****	*****
Year		
2016	83,957	18.8%
2017	363,630	81.2%
Recorded history of:	Number	Percent
Day 0		
Influenza vaccination	9,810	2.2%
Day -7 to Day 7		
Influenza Testing	242,788	54.2%
Day -183 to Day 0	Mean	Standard Deviation
Prior combined comorbidity raw score	1.5	2.4
	Number	Percent
Influenza vaccination	131,973	29.5%
Asthma	48,284	10.8%
Chronic obstructive pulmonary disease	54,064	12.1%
Diabetes	81,561	18.2%
Obesity	55,763	12.5%
Enrollment History to Day 0		
Pneumococcal vaccination	155,088	34.6%
Health Service Utilization Intensity:	Mean	Standard Deviation
Mean number of ambulatory encounters (AV)	9.2	12.1
Mean number of emergency room encounters (ED)	0.5	1.5
Mean number of inpatient hospital encounters (IP)	0.3	0.7
Mean number of non-acute institutional encounters (IS)	0.1	0.6
Mean number of other ambulatory encounters (OA)	4	10
Mean number of unique drug classes	5.2	4.4
Mean number of generics	5.6	4.8
Mean number of filled prescriptions	14	17.7

¹All 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 2. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2016 and June 30, 2017, Overall

	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
ILI					
Total	985,821	74,985,917	1,009,011	0.0	0.57
Treated on Day of Diagnosis	480,935		483,346	37,939.2	1.01
Treated Day After Diagnosis	41,758		41,793	3,169.6	1.00
Treated 1-5 Days After Diagnosis	74,215		74,307	5,475.2	1.00
NOT Treated Within 5 Days of Diagnosis	434,410		447,587	28,941.8	0.00
ILI - Treated Day of Diagnosis					
Hospitalization	480,334		482,742	37,462.6	1.01
Bilevel Positive Airway Pressure (BiPAP)	480,878		483,289	37,875.9	1.01
Supplemental oxygen	467,559		469,865	36,522.3	1.01
Mechanical ventilation	480,889		483,300	37,909.8	1.01
Critical Care	480,239		482,648	37,549.1	1.01
Extracorporeal membrane oxygenation (ECMO)	480,934		483,345	37,938.8	1.01
Death	480,928		483,339	37,921.7	1.01
Discharge from hospital alive	480,364		482,772	37,485.6	1.01
ILI - Treated Day After Diagnosis					
Hospitalization	39,934		39,965	2,942.8	1.00
BiPAP	41,753		41,788	3,165.3	1.00
Supplemental oxygen	36,438		36,465	2,721.6	1.00
Mechanical ventilation	41,719		41,754	3,160.2	1.00
Critical Care	39,557		39,591	2,936.6	1.00
ECMO	41,758		41,793	3,169.6	1.00
Death	41,756		41,791	3,163.1	1.00
Discharge from hospital alive	39,986		40,017	2,951.8	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, 2016 and June 30, 2017, Overall

	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
ILI - Treated 1-5 Days After Diagnosis					
Hospitalization	53,540		53,590	3,877.3	1.00
BiPAP	74,193		74,285	5,466.2	1.00
Supplemental oxygen	63,375		63,442	4,582.4	1.00
Mechanical ventilation	73,736		73,827	5,426.9	1.00
Critical Care	56,249		56,304	4,088.9	1.00
ECMO	74,215		74,307	5,475.1	1.00
Death	74,210		74,302	5,460.9	1.00
Discharge from hospital alive	53,902		53,952	3,908.8	1.00
ILI - NOT Treated 0-5 Days After Diagnosis					
Hospitalization	392,454		403,919	25,866.2	0.00
BiPAP	434,142		447,287	28,890.1	0.00
Supplemental oxygen	410,185		422,571	27,071.7	0.00
Mechanical ventilation	429,259		442,223	28,570.8	0.00
Critical Care	392,583		404,126	25,930.0	0.00
ECMO	434,387		447,559	28,940.1	0.00
Death	432,594		445,736	28,740.7	0.00
Discharge from hospital alive	394,895		406,398	26,008.2	0.00
ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis					
Hospitalization	63,994		64,277		
BiPAP	310		316		
Supplemental oxygen	35,601		35,736		
Mechanical ventilation	5,883		5,890		
Critical Care	60,952		61,297		
ECMO	28		28		
Death	2,070		2,070		
Discharge from hospital alive	61,089		61,361		

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, 2016 and June 30, 2017, Overall

	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
ILI - Excluded: Outcome and Treatment, on Day of Diagnosis					
Hospitalization	606		606		
BiPAP	57		57		
Supplemental oxygen	13,486		13,494		
Mechanical ventilation	46		46		
Critical Care	700		700		
ECMO	*****		*****		
Death	*****		*****		
Discharge from hospital alive	575		575		
ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis					
Hospitalization	390		390		
BiPAP	*****		*****		
Supplemental oxygen	314		314		
Mechanical ventilation	23		23		
Critical Care	518		518		
ECMO	0		0		
Death	*****		*****		
Discharge from hospital alive	355		355		

¹Eligible 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, 2016 and June 30, 2017, 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 ¹
ILI						
Total	2.93	5.16				62,272,306.8
Treated on Day of Diagnosis	5.29	5.24				
Treated Day After Diagnosis	5.21	5.20				
Treated 1-5 Days After Diagnosis	4.67	4.66				
NOT Treated Within 5 Days of Diagnosis	0.00					
ILI - Treated Day of Diagnosis						
Hospitalization	5.29	5.24	8,145	16.87	217.42	
Bilevel Positive Airway Pressure (BiPAP)	5.29	5.24	1,540	3.19	40.66	
Supplemental oxygen	5.29	5.25	6,540	13.92	179.07	
Mechanical ventilation	5.29	5.24	494	1.02	13.03	
Critical Care	5.29	5.24	6,289	13.03	167.49	
Extracorporeal membrane oxygenation (ECMO)	5.29	5.24	*****	*****	*****	
Death	5.29	5.24	597	1.24	15.74	
Discharge from hospital alive	5.29	5.24	7,688	15.92	205.09	
ILI - Treated Day After Diagnosis						
Hospitalization	5.24	5.22	1,791	44.81	608.60	
BiPAP	5.21	5.20	103	2.46	32.54	
Supplemental oxygen	5.25	5.23	819	22.46	300.93	
Mechanical ventilation	5.21	5.20	136	3.26	43.04	
Critical Care	5.25	5.23	1,361	34.38	463.46	
ECMO	5.21	5.20	*****	*****	*****	
Death	5.21	5.20	231	5.53	73.03	
Discharge from hospital alive	5.24	5.22	1,668	41.68	565.08	

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, 2016 and June 30, 2017, 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 ¹
ILI - Treated 1-5 Days After Diagnosis						
Hospitalization	5.08	5.06	2,686	50.12	692.75	
BiPAP	4.67	4.66	206	2.77	37.69	
Supplemental oxygen	4.72	4.70	1,932	30.45	421.61	
Mechanical ventilation	4.68	4.67	339	4.59	62.47	
Critical Care	4.98	4.97	2,261	40.16	552.96	
ECMO	4.67	4.66	*****	*****	*****	
Death	4.67	4.66	528	7.11	96.69	
Discharge from hospital alive	5.07	5.05	2,536	47.00	648.79	
ILI - NOT Treated 0-5 Days After Diagnosis						
Hospitalization	0.00		8,069	19.98	311.95	
BiPAP	0.00		988	2.21	34.20	
Supplemental oxygen	0.00		6,429	15.21	237.48	
Mechanical ventilation	0.00		1,425	3.22	49.88	
Critical Care	0.00		6,921	17.13	266.91	
ECMO	0.00		*****	*****	*****	
Death	0.00		4,948	11.10	172.16	
Discharge from hospital alive	0.00		7,544	18.56	290.06	
ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis						
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, 2016 and June 30, 2017, 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 ¹
ILI - Excluded: Outcome and Treatment, on Day of Diagnosis						
Hospitalization						
BiPAP						
Supplemental oxygen						
Mechanical ventilation						
Critical Care						
ECMO						
Death						
Discharge from hospital alive						
ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis						
Hospitalization						
BiPAP						
Supplemental oxygen						
Mechanical ventilation						
Critical Care						
ECMO						
Death						
Discharge from hospital alive						

¹Eligible 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, 2016 and June 30, 2017 by Sex

Sex	Members with a Diagnosis	Eligible Members ¹	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 ¹
ILI											
Total											
Female	550,949	39,796,749	564,112	0.0	0.56	2.89	5.15				33,304,604.9
Male	434,856	35,187,290	444,883	0.0	0.58	2.99	5.18				28,966,336.1
Other	16	1,878	16	0.0	0.81	3.94	4.85				1,365.9
Treated on Day of Diagnosis											
Female	264,536		265,825	20,866.6	1.01	5.27	5.23				
Male	216,388		217,510	17,071.8	1.01	5.31	5.26				
Other	11		11	0.8	1.00	5.00	5.00				
Treated Day After Diagnosis											
Female	23,597		23,618	1,790.8	1.00	5.22	5.20				
Male	*****		*****	1,378.8	1.00	5.21	5.19				
Other	*****		*****	0.1	1.00	5.00	5.00				
Treated 1-5 Days After Diagnosis											
Female	42,162		42,222	3,108.5	1.00	4.69	4.67				
Male	*****		*****	2,366.6	1.00	4.65	4.64				
Other	*****		*****	0.2	1.00	4.00	4.00				
NOT Treated Within 5 Days of Diagnosis											
Female	246,427		253,951	16,419.3	0.00	0.00					
Male	*****		*****	12,522.3	0.00	0.00					
Other	*****		*****	0.2	0.00	0.00					
ILI - Treated Day of Diagnosis											
Hospitalization											
Female	264,204		265,492	20,583.0	1.01	5.27	5.23	4,945	18.63	240.25	
Male	216,119		217,239	16,878.7	1.01	5.31	5.26	3,200	14.73	189.59	
Other	11		11	0.8	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, 2016 and June 30, 2017 by Sex

Sex	Members with a Diagnosis	Eligible Members ¹	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 ¹
Bilevel Positive Airway Pressure (BiPAP)											
Female	264,513		265,802	20,841.3	1.01	5.27	5.23	634	2.39	30.42	
Male	216,354		217,476	17,033.8	1.01	5.31	5.26	906	4.17	53.19	
Other	11		11	0.8	1.00	5.00	5.00	0	0.00	0.00	
Supplemental oxygen											
Female	256,763		257,985	20,025.2	1.01	5.28	5.23	4,096	15.88	204.54	
Male	210,785		211,869	16,496.3	1.01	5.31	5.26	2,444	11.54	148.15	
Other	11		11	0.8	1.00	5.00	5.00	0	0.00	0.00	
Mechanical ventilation											
Female	264,512		265,801	20,850.1	1.01	5.27	5.23	286	1.08	13.72	
Male	216,366		217,488	17,058.8	1.01	5.31	5.26	208	0.96	12.19	
Other	11		11	0.8	1.00	5.00	5.00	0	0.00	0.00	
Critical Care											
Female	264,175		265,463	20,641.1	1.01	5.27	5.23	3,688	13.89	178.67	
Male	216,053		217,174	16,907.1	1.01	5.31	5.26	2,601	11.98	153.84	
Other	11		11	0.8	1.00	5.00	5.00	0	0.00	0.00	
Extracorporeal membrane oxygenation (ECMO)											
Female	264,535		265,824	20,866.3	1.01	5.27	5.23	*****	*****	*****	
Male	216,388		217,510	17,071.7	1.01	5.31	5.26	*****	*****	*****	
Other	11		11	0.8	1.00	5.00	5.00	0	0.00	0.00	
Death											
Female	264,532		265,821	20,855.3	1.01	5.27	5.23	377	1.42	18.08	
Male	216,385		217,507	17,065.6	1.01	5.31	5.26	220	1.01	12.89	
Other	11		11	0.8	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, 2016 and June 30, 2017 by Sex

Sex	Members with a Diagnosis	Eligible Members ¹	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 ¹
Discharge from hospital alive											
Female	264,218		265,506	20,596.6	1.01	5.27	5.23	4,661	17.56	226.30	
Male	216,135		217,255	16,888.1	1.01	5.31	5.26	3,027	13.93	179.24	
Other	11		11	0.8	1.00	5.00	5.00	0	0.00	0.00	
ILI - Treated Day After Diagnosis											
Hospitalization											
Female	22,674		22,692	1,666.2	1.00	5.25	5.23	1,096	48.30	657.78	
Male	*****		*****	1,276.6	1.00	5.23	5.22	695	40.24	544.41	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
BiPAP											
Female	23,594		23,615	1,788.8	1.00	5.22	5.20	45	1.91	25.16	
Male	*****		*****	1,376.5	1.00	5.21	5.19	58	3.19	42.14	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
Supplemental oxygen											
Female	20,413		20,428	1,521.0	1.00	5.26	5.24	504	24.67	331.36	
Male	*****		*****	1,200.5	1.00	5.24	5.23	315	19.64	262.39	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
Mechanical ventilation											
Female	23,576		23,597	1,785.8	1.00	5.22	5.20	69	2.92	38.64	
Male	*****		*****	1,374.4	1.00	5.21	5.19	67	3.69	48.75	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
Critical Care											
Female	22,498		22,519	1,668.2	1.00	5.25	5.23	804	35.70	481.96	
Male	*****		*****	1,268.4	1.00	5.24	5.23	557	32.63	439.14	
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, 2016 and June 30, 2017 by Sex

Sex	Members with a Diagnosis	Eligible Members ¹	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 ¹
ECMO											
Female	23,597		23,618	1,790.8	1.00	5.22	5.20	*****	*****	*****	
Male	*****		*****	1,378.8	1.00	5.21	5.19	0	0.00	0.00	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
Death											
Female	23,596		23,617	1,786.9	1.00	5.22	5.20	139	5.89	77.79	
Male	*****		*****	1,376.2	1.00	5.21	5.19	92	5.06	66.85	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
Discharge from hospital alive											
Female	22,695		22,713	1,671.3	1.00	5.24	5.22	1,016	44.73	607.91	
Male	*****		*****	1,280.4	1.00	5.23	5.22	652	37.68	509.22	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
ILI - Treated 1-5 Days After Diagnosis											
Hospitalization											
Female	30,625		30,653	2,211.7	1.00	5.10	5.08	1,614	52.65	729.76	
Male	*****		*****	1,665.4	1.00	5.05	5.03	1,072	46.74	643.69	
Other	*****		*****	0.2	1.00	4.00	4.00	0	0.00	0.00	
BiPAP											
Female	42,150		42,210	3,104.2	1.00	4.69	4.67	92	2.18	29.64	
Male	*****		*****	2,361.9	1.00	4.65	4.64	114	3.55	48.27	
Other	*****		*****	0.2	1.00	4.00	4.00	0	0.00	0.00	
Supplemental oxygen											
Female	35,672		35,713	2,573.1	1.00	4.74	4.72	1,159	32.45	450.43	
Male	*****		*****	2,009.1	1.00	4.69	4.68	773	27.88	384.75	
Other	*****		*****	0.2	1.00	4.00	4.00	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, 2016 and June 30, 2017 by Sex

Sex	Members with a Diagnosis	Eligible Members ¹	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 ¹
Mechanical ventilation											
Female	41,934		41,994	3,084.5	1.00	4.70	4.68	177	4.21	57.38	
Male	*****		*****	2,342.2	1.00	4.66	4.65	162	5.09	69.17	
Other	*****		*****	0.2	1.00	4.00	4.00	0	0.00	0.00	
Critical Care											
Female	32,400		32,432	2,350.6	1.00	4.99	4.97	1,334	41.13	567.51	
Male	*****		*****	1,738.2	1.00	4.98	4.96	927	38.83	533.31	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
ECMO											
Female	42,162		42,222	3,108.4	1.00	4.69	4.67	*****	*****	*****	
Male	*****		*****	2,366.6	1.00	4.65	4.64	0	0.00	0.00	
Other	*****		*****	0.2	1.00	4.00	4.00	0	0.00	0.00	
Death											
Female	42,159		42,219	3,100.0	1.00	4.69	4.67	311	7.37	100.32	
Male	*****		*****	2,360.8	1.00	4.65	4.64	217	6.76	91.92	
Other	*****		*****	0.2	1.00	4.00	4.00	0	0.00	0.00	
Discharge from hospital alive											
Female	30,806		30,834	2,228.8	1.00	5.09	5.07	1,513	49.07	678.84	
Male	*****		*****	1,679.8	1.00	5.04	5.02	1,023	44.26	609.00	
Other	*****		*****	0.2	1.00	4.00	4.00	0	0.00	0.00	
ILI - NOT Treated 0-5 Days After Diagnosis											
Hospitalization											
Female	221,622		228,084	14,596.4	0.00	0.00		4,760	20.87	326.11	
Male	*****		*****	11,269.7	0.00	0.00		3,309	18.82	293.62	
Other	*****		*****	0.1	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, 2016 and June 30, 2017 by Sex

Sex	Members with a Diagnosis	Eligible Members ¹	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 ¹
BiPAP											
Female	246,317		253,829	16,397.2	0.00	0.00		438	1.73	26.71	
Male	*****		*****	12,492.7	0.00	0.00		550	2.84	44.03	
Other	*****		*****	0.2	0.00	0.00		0	0.00	0.00	
Supplemental oxygen											
Female	231,551		238,594	15,267.6	0.00	0.00		3,985	16.70	261.01	
Male	*****		*****	11,803.8	0.00	0.00		2,444	13.28	207.05	
Other	*****		*****	0.2	0.00	0.00		0	0.00	0.00	
Mechanical ventilation											
Female	243,519		250,910	16,211.8	0.00	0.00		744	2.97	45.89	
Male	*****		*****	12,358.9	0.00	0.00		681	3.56	55.10	
Other	*****		*****	0.2	0.00	0.00		0	0.00	0.00	
Critical Care											
Female	222,221		228,725	14,668.3	0.00	0.00		4,040	17.66	275.42	
Male	*****		*****	11,261.6	0.00	0.00		2,881	16.43	255.83	
Other	*****		*****	0.1	0.00	0.00		0	0.00	0.00	
ECMO											
Female	246,417		253,938	16,418.5	0.00	0.00		0	0.00	0.00	
Male	*****		*****	12,521.4	0.00	0.00		*****	*****	*****	
Other	*****		*****	0.2	0.00	0.00		0	0.00	0.00	
Death											
Female	245,374		252,877	16,304.8	0.00	0.00		2,818	11.14	172.83	
Male	*****		*****	12,435.7	0.00	0.00		2,130	11.04	171.28	
Other	*****		*****	0.2	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, 2016 and June 30, 2017 by Sex

Sex	Members with a Diagnosis	Eligible Members ¹	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 ¹
Discharge from hospital alive											
Female	222,991		229,472	14,674.8	0.00	0.00		4,463	19.45	304.13	
Male	*****		*****	11,333.3	0.00	0.00		3,081	17.41	271.85	
Other	*****		*****	0.1	0.00	0.00		0	0.00	0.00	
ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis											
Hospitalization											
Female	37,219										
Male	*****										
Other	*****										
BiPAP											
Female	126										
Male	184										
Other	0										
Supplemental oxygen											
Female	21,685										
Male	13,916										
Other	0										
Mechanical ventilation											
Female	3,289										
Male	2,594										
Other	0										
Critical Care											
Female	34,717										
Male	*****										
Other	*****										

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, 2016 and June 30, 2017 by Sex

Sex	Members with a Diagnosis	Eligible Members ¹	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 ¹
ECMO											
Female	13										
Male	15										
Other	0										
Death											
Female	1,199										
Male	871										
Other	0										
Discharge from hospital alive											
Female	35,602										
Male	25,486										
Other	*****										
ILI - Excluded: Outcome and Treatment, on Day of Diagnosis											
Hospitalization											
Female	333										
Male	273										
Other	0										
BiPAP											
Female	23										
Male	34										
Other	0										
Supplemental oxygen											
Female	7,843										
Male	5,643										
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, 2016 and June 30, 2017 by Sex

Sex	Members with a Diagnosis	Eligible Members ¹	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 ¹
Mechanical ventilation											
Female	24										
Male	22										
Other	0										
Critical Care											
Female	362										
Male	338										
Other	0										
ECMO											
Female	*****										
Male	0										
Other	0										
Death											
Female	*****										
Male	*****										
Other	0										
Discharge from hospital alive											
Female	319										
Male	256										
Other	0										
ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis											
Hospitalization											
Female	214										
Male	176										
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, 2016 and June 30, 2017 by Sex

Sex	Members with a Diagnosis	Eligible Members ¹	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 ¹
BiPAP											
Female	*****										
Male	*****										
Other	0										
Supplemental oxygen											
Female	198										
Male	116										
Other	0										
Mechanical ventilation											
Female	*****										
Male	*****										
Other	0										
Critical Care											
Female	279										
Male	239										
Other	0										
ECMO											
Female	0										
Male	0										
Other	0										
Death											
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, 2016 and June 30, 2017 by Sex

Sex	Members with a Diagnosis	Eligible Members ¹	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 ¹
Discharge from hospital alive											
Female	202										
Male	153										
Other	0										

¹Eligible 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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
ILI					
Total					
6 Months - 4	66,862	2,553,355	68,694	0.0	0.56
5-17	214,686	7,638,987	218,447	0.0	0.59
18-49	259,026	24,897,514	262,505	0.0	0.60
50-64	141,378	14,341,791	144,199	0.0	0.57
65+	304,083	27,642,326	315,166	0.0	0.52
Treated on Day of Diagnosis					
6 Months - 4	34,044		34,465	2,701.7	1.02
5-17	118,252		119,166	9,364.6	1.02
18-49	143,806		144,261	11,283.7	1.01
50-64	69,725		69,946	5,482.9	1.01
65+	115,144		115,508	9,106.4	1.00
Treated Day After Diagnosis					
6 Months - 4	2,466		2,474	187.7	1.01
5-17	6,313		6,321	479.4	1.01
18-49	8,872		8,878	671.5	1.00
50-64	5,968		5,973	452.5	1.00
65+	18,140		18,147	1,378.5	1.00
Treated 1-5 Days After Diagnosis					
6 Months - 4	2,901		2,912	218.9	1.01
5-17	7,402		7,412	557.3	1.01
18-49	11,487		11,500	857.6	1.00
50-64	10,366		10,379	764.5	1.00
65+	42,060		42,104	3,076.9	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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
NOT Treated Within 5 Days of Diagnosis					
6 Months - 4	30,301		31,042	2,016.6	0.00
5-17	90,165		91,342	5,941.7	0.00
18-49	104,089		105,638	6,833.9	0.00
50-64	61,634		63,260	4,091.0	0.00
65+	148,312		156,305	10,058.5	0.00
ILI - Treated Day of Diagnosis					
Hospitalization					
6 Months - 4	34,039		34,460	2,694.5	1.02
5-17	118,248		119,160	9,353.6	1.02
18-49	143,767		144,222	11,224.1	1.01
50-64	69,650		69,871	5,410.7	1.01
65+	114,666		115,029	8,779.7	1.00
Bilevel Positive Airway Pressure (BiPAP)					
6 Months - 4	34,044		34,465	2,701.6	1.02
5-17	118,251		119,165	9,364.0	1.02
18-49	143,786		144,241	11,263.5	1.01
50-64	69,703		69,924	5,456.1	1.01
65+	115,130		115,494	9,090.6	1.00
Supplemental oxygen					
6 Months - 4	33,559		33,967	2,646.8	1.02
5-17	117,109		118,005	9,247.2	1.02
18-49	141,171		141,602	11,010.4	1.01
50-64	67,070		67,275	5,208.1	1.01
65+	108,686		109,016	8,409.8	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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Mechanical ventilation					
6 Months - 4	34,044		34,465	2,701.3	1.02
5-17	118,251		119,165	9,364.4	1.02
18-49	143,805		144,260	11,281.0	1.01
50-64	69,720		69,941	5,477.4	1.01
65+	115,105		115,469	9,085.6	1.00
Critical Care					
6 Months - 4	34,034		34,455	2,697.2	1.02
5-17	118,240		119,153	9,357.3	1.02
18-49	143,736		144,191	11,238.8	1.01
50-64	69,614		69,835	5,420.1	1.01
65+	114,651		115,014	8,835.6	1.00
Extracorporeal membrane oxygenation (ECMO)					
6 Months - 4	34,044		34,465	2,701.7	1.02
5-17	118,251		119,165	9,364.5	1.02
18-49	143,806		144,261	11,283.6	1.01
50-64	69,725		69,946	5,482.9	1.01
65+	115,144		115,508	9,106.2	1.00
Death					
6 Months - 4	34,044		34,465	2,701.7	1.02
5-17	118,252		119,166	9,364.6	1.02
18-49	143,805		144,260	11,283.2	1.01
50-64	69,725		69,946	5,481.8	1.01
65+	115,138		115,502	9,090.4	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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Discharge from hospital alive					
6 Months - 4	34,039		34,460	2,696.5	1.02
5-17	118,249		119,161	9,355.4	1.02
18-49	143,768		144,223	11,228.7	1.01
50-64	69,651		69,872	5,414.0	1.01
65+	114,693		115,056	8,791.1	1.00
ILI - Treated Day After Diagnosis					
Hospitalization					
6 Months - 4	2,441		2,449	185.3	1.01
5-17	6,287		6,294	476.5	1.01
18-49	8,737		8,743	651.4	1.00
50-64	5,732		5,735	419.3	1.00
65+	16,738		16,744	1,210.3	1.00
BiPAP					
6 Months - 4	2,466		2,474	187.7	1.01
5-17	6,313		6,321	479.4	1.01
18-49	8,869		8,875	670.4	1.00
50-64	5,967		5,972	451.2	1.00
65+	18,139		18,146	1,376.6	1.00
Supplemental oxygen					
6 Months - 4	2,382		2,389	180.3	1.01
5-17	6,158		6,165	466.0	1.01
18-49	8,228		8,233	616.3	1.00
50-64	4,998		5,000	370.1	1.00
65+	14,672		14,678	1,089.0	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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Mechanical ventilation					
6 Months - 4	2,465		2,473	187.7	1.01
5-17	6,312		6,320	479.3	1.01
18-49	8,869		8,875	670.7	1.00
50-64	5,964		5,969	450.5	1.00
65+	18,110		18,117	1,372.0	1.00
Critical Care					
6 Months - 4	2,436		2,444	185.1	1.01
5-17	6,270		6,277	475.3	1.01
18-49	8,688		8,694	651.5	1.00
50-64	5,668		5,673	417.7	1.00
65+	16,496		16,503	1,206.9	1.00
ECMO					
6 Months - 4	2,466		2,474	187.7	1.01
5-17	6,313		6,321	479.4	1.01
18-49	8,872		8,878	671.4	1.00
50-64	5,968		5,973	452.5	1.00
65+	18,140		18,147	1,378.5	1.00
Death					
6 Months - 4	2,466		2,474	187.7	1.01
5-17	6,313		6,321	479.4	1.01
18-49	8,872		8,878	671.4	1.00
50-64	5,967		5,972	452.3	1.00
65+	18,139		18,146	1,372.3	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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Discharge from hospital alive					
6 Months - 4	2,444		2,452	185.6	1.01
5-17	6,292		6,299	477.2	1.01
18-49	8,745		8,751	653.1	1.00
50-64	5,744		5,747	421.2	1.00
65+	16,762		16,768	1,214.6	1.00
ILI - Treated 1-5 Days After Diagnosis					
Hospitalization					
6 Months - 4	2,835		2,846	213.4	1.01
5-17	7,301		7,310	549.0	1.01
18-49	10,487		10,495	773.3	1.00
50-64	7,759		7,765	558.6	1.00
65+	25,159		25,174	1,783.0	1.00
BiPAP					
6 Months - 4	2,901		2,912	218.9	1.01
5-17	7,402		7,412	557.3	1.01
18-49	11,483		11,496	856.3	1.00
50-64	10,362		10,375	761.7	1.00
65+	42,046		42,090	3,072.1	1.00
Supplemental oxygen					
6 Months - 4	2,788		2,798	209.0	1.01
5-17	7,204		7,213	540.8	1.01
18-49	10,560		10,568	779.4	1.00
50-64	8,517		8,524	612.1	1.00
65+	34,306		34,339	2,441.0	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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Mechanical ventilation					
6 Months - 4	2,900		2,911	218.8	1.01
5-17	7,397		7,407	556.9	1.01
18-49	11,456		11,469	854.6	1.00
50-64	10,278		10,291	754.6	1.00
65+	41,706		41,749	3,042.0	1.00
Critical Care					
6 Months - 4	2,847		2,858	214.4	1.01
5-17	7,296		7,305	548.8	1.01
18-49	10,537		10,546	781.0	1.00
50-64	7,977		7,984	576.5	1.00
65+	27,593		27,611	1,968.2	1.00
ECMO					
6 Months - 4	2,901		2,912	218.9	1.01
5-17	7,402		7,412	557.3	1.01
18-49	11,487		11,500	857.6	1.00
50-64	10,366		10,379	764.5	1.00
65+	42,060		42,104	3,076.9	1.00
Death					
6 Months - 4	2,901		2,912	218.9	1.01
5-17	7,402		7,412	557.3	1.01
18-49	11,487		11,500	857.6	1.00
50-64	10,365		10,378	763.6	1.00
65+	42,056		42,100	3,063.6	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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Discharge from hospital alive					
6 Months - 4	2,844		2,855	214.1	1.01
5-17	7,313		7,322	550.3	1.01
18-49	10,510		10,518	776.4	1.00
50-64	7,814		7,820	563.8	1.00
65+	25,422		25,437	1,804.2	1.00
ILI - NOT Treated 0-5 Days After Diagnosis					
Hospitalization					
6 Months - 4	30,130		30,863	2,002.4	0.00
5-17	89,943		91,108	5,922.0	0.00
18-49	101,932		103,397	6,658.9	0.00
50-64	56,439		57,876	3,694.2	0.00
65+	114,099		120,675	7,588.8	0.00
BiPAP					
6 Months - 4	30,301		31,042	2,016.4	0.00
5-17	90,163		91,339	5,941.0	0.00
18-49	104,014		105,556	6,820.4	0.00
50-64	61,521		63,145	4,072.5	0.00
65+	148,234		156,205	10,039.9	0.00
Supplemental oxygen					
6 Months - 4	29,578		30,260	1,958.7	0.00
5-17	88,807		89,956	5,842.4	0.00
18-49	100,391		101,861	6,564.1	0.00
50-64	56,998		58,519	3,740.9	0.00
65+	134,495		141,975	8,965.6	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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Mechanical ventilation					
6 Months - 4	30,289		31,029	2,015.6	0.00
5-17	90,149		91,322	5,940.2	0.00
18-49	103,798		105,325	6,811.7	0.00
50-64	60,777		62,376	4,028.0	0.00
65+	144,337		152,171	9,775.3	0.00
Critical Care					
6 Months - 4	30,173		30,909	2,006.5	0.00
5-17	89,985		91,150	5,926.7	0.00
18-49	101,892		103,368	6,663.9	0.00
50-64	56,215		57,644	3,685.1	0.00
65+	114,405		121,055	7,647.7	0.00
ECMO					
6 Months - 4	30,301		31,042	2,016.6	0.00
5-17	90,163		91,338	5,941.5	0.00
18-49	104,083		105,631	6,833.5	0.00
50-64	61,628		63,253	4,090.6	0.00
65+	148,303		156,295	10,057.9	0.00
Death					
6 Months - 4	30,301		31,042	2,016.6	0.00
5-17	90,165		91,342	5,941.7	0.00
18-49	104,051		105,600	6,830.3	0.00
50-64	61,494		63,115	4,078.0	0.00
65+	146,674		154,637	9,874.1	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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Discharge from hospital alive					
6 Months - 4	30,155		30,888	2,004.8	0.00
5-17	89,968		91,136	5,924.5	0.00
18-49	102,050		103,519	6,668.3	0.00
50-64	56,707		58,146	3,711.3	0.00
65+	116,104		122,709	7,699.3	0.00
ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis					
Hospitalization					
6 Months - 4	239		239		
5-17	327		329		
18-49	3,202		3,228		
50-64	7,932		7,972		
65+	52,296		52,509		
BiPAP					
6 Months - 4	0		0		
5-17	*****		*****		
18-49	*****		*****		
50-64	120		120		
65+	104		109		
Supplemental oxygen					
6 Months - 4	895		899		
5-17	1,569		1,572		
18-49	4,693		4,703		
50-64	6,571		6,593		
65+	21,877		21,969		

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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Mechanical ventilation					
6 Months - 4	13		13		
5-17	22		23		
18-49	344		346		
50-64	980		980		
65+	4,524		4,528		
Critical Care					
6 Months - 4	178		178		
5-17	285		289		
18-49	3,169		3,193		
50-64	7,912		7,975		
65+	49,410		49,662		
ECMO					
6 Months - 4	0		0		
5-17	*****		*****		
18-49	*****		*****		
50-64	*****		*****		
65+	*****		*****		
Death					
6 Months - 4	0		0		
5-17	0		0		
18-49	43		43		
50-64	161		161		
65+	1,866		1,866		

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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Discharge from hospital alive					
6 Months - 4	208		208		
5-17	292		294		
18-49	3,062		3,087		
50-64	7,614		7,652		
65+	49,915		50,120		
ILI - Excluded: Outcome and Treatment, on Day of Diagnosis					
Hospitalization					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	39		39		
50-64	76		76		
65+	480		480		
BiPAP					
6 Months - 4	0		0		
5-17	*****		*****		
18-49	*****		*****		
50-64	22		22		
65+	14		14		
Supplemental oxygen					
6 Months - 4	499		499		
5-17	1,162		1,162		
18-49	2,657		2,662		
50-64	2,672		2,673		
65+	6,496		6,498		

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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Mechanical ventilation					
6 Months - 4	0		0		
5-17	*****		*****		
18-49	*****		*****		
50-64	*****		*****		
65+	39		39		
Critical Care					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	70		70		
50-64	112		112		
65+	495		495		
ECMO					
6 Months - 4	0		0		
5-17	*****		*****		
18-49	0		0		
50-64	0		0		
65+	0		0		
Death					
6 Months - 4	0		0		
5-17	0		0		
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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Discharge from hospital alive					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	*****		*****		
50-64	74		74		
65+	453		453		
ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis					
Hospitalization					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	30		30		
50-64	64		64		
65+	278		278		
BiPAP					
6 Months - 4	0		0		
5-17	0		0		
18-49	*****		*****		
50-64	0		0		
65+	*****		*****		
Supplemental oxygen					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	38		38		
50-64	48		48		
65+	201		201		

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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Mechanical ventilation					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	*****		*****		
50-64	*****		*****		
65+	*****		*****		
Critical Care					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	47		47		
50-64	81		81		
65+	369		369		
ECMO					
6 Months - 4	0		0		
5-17	0		0		
18-49	0		0		
50-64	0		0		
65+	0		0		
Death					
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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Discharge from hospital alive					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	*****		*****		
50-64	52		52		
65+	270		270		

¹Eligible 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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with New Diagnoses Outcome per 1,000 New Diagnoses	New Diagnoses with New Diagnoses Outcome per 1,000 Years at Risk	Eligible Member Years ¹
ILI						
Total						
6 Months - 4	3.27	5.83				1,715,080.1
5-17	3.26	5.48				5,837,901.4
18-49	3.05	5.05				18,536,085.5
50-64	2.86	5.01				11,433,381.6
65+	2.56	4.94				24,749,858.1
Treated on Day of Diagnosis						
6 Months - 4	5.94	5.84				
5-17	5.57	5.48				
18-49	5.09	5.06				
50-64	5.11	5.08				
65+	5.16	5.14				
Treated Day After Diagnosis						
6 Months - 4	5.77	5.74				
5-17	5.57	5.53				
18-49	5.07	5.05				
50-64	5.06	5.04				
65+	5.14	5.13				
Treated 1-5 Days After Diagnosis						
6 Months - 4	5.78	5.74				
5-17	5.56	5.52				
18-49	4.93	4.91				
50-64	4.59	4.58				
65+	4.39	4.38				

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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with New Outcome per 1,000 New Diagnoses	New Diagnoses with New Outcome per 1,000 Years at Risk	Eligible Member Years ¹
NOT Treated Within 5 Days of Diagnosis						
6 Months - 4	0.00					
5-17	0.00					
18-49	0.00					
50-64	0.00					
65+	0.00					
ILI - Treated Day of Diagnosis						
Hospitalization						
6 Months - 4	5.94	5.84	132	3.83	48.99	
5-17	5.57	5.48	223	1.87	23.84	
18-49	5.09	5.06	1,204	8.35	107.27	
50-64	5.11	5.08	1,289	18.45	238.23	
65+	5.16	5.14	5,297	46.05	603.32	
Bilevel Positive Airway Pressure (BiPAP)						
6 Months - 4	5.94	5.84	*****	*****	*****	
5-17	5.57	5.48	*****	*****	*****	
18-49	5.09	5.06	469	3.25	41.64	
50-64	5.11	5.08	671	9.60	122.98	
65+	5.16	5.14	388	3.36	42.68	
Supplemental oxygen						
6 Months - 4	5.94	5.84	389	11.45	146.97	
5-17	5.57	5.48	525	4.45	56.77	
18-49	5.09	5.06	1,184	8.36	107.53	
50-64	5.10	5.08	1,193	17.73	229.07	
65+	5.17	5.15	3,249	29.80	386.33	

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, 2016 and June 30, 2017 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 ¹
Mechanical ventilation						
6 Months - 4	5.94	5.84	*****	*****	*****	
5-17	5.57	5.48	*****	*****	*****	
18-49	5.09	5.06	52	0.36	4.61	
50-64	5.11	5.08	95	1.36	17.34	
65+	5.16	5.14	338	2.93	37.20	
Critical Care						
6 Months - 4	5.94	5.84	69	2.00	25.58	
5-17	5.57	5.48	131	1.10	14.00	
18-49	5.09	5.06	777	5.39	69.14	
50-64	5.11	5.08	1,033	14.79	190.59	
65+	5.16	5.14	4,279	37.20	484.29	
Extracorporeal membrane oxygenation (ECMO)						
6 Months - 4	5.94	5.84	0	0.00	0.00	
5-17	5.57	5.48	0	0.00	0.00	
18-49	5.09	5.06	*****	*****	*****	
50-64	5.11	5.08	0	0.00	0.00	
65+	5.16	5.14	*****	*****	*****	
Death						
6 Months - 4	5.94	5.84	0	0.00	0.00	
5-17	5.57	5.48	0	0.00	0.00	
18-49	5.09	5.06	13	0.09	1.15	
50-64	5.11	5.08	38	0.54	6.93	
65+	5.16	5.14	546	4.73	60.06	

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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with New Outcome per 1,000 New Diagnoses	New Diagnoses with New Outcome per 1,000 Years at Risk	Eligible Member Years ¹
Discharge from hospital alive						
6 Months - 4	5.94	5.84	92	2.67	34.12	
5-17	5.57	5.48	178	1.49	19.03	
18-49	5.09	5.06	1,098	7.61	97.79	
50-64	5.11	5.08	1,227	17.56	226.63	
65+	5.16	5.14	5,093	44.27	579.34	
ILI - Treated Day After Diagnosis						
Hospitalization						
6 Months - 4	5.78	5.74	15	6.12	80.95	
5-17	5.57	5.53	16	2.54	33.58	
18-49	5.08	5.06	226	25.85	346.95	
50-64	5.07	5.06	297	51.79	708.32	
65+	5.18	5.17	1,237	73.88	1,022.06	
BiPAP						
6 Months - 4	5.77	5.74	0	0.00	0.00	
5-17	5.57	5.53	0	0.00	0.00	
18-49	5.07	5.05	26	2.93	38.78	
50-64	5.06	5.04	32	5.36	70.92	
65+	5.14	5.13	45	2.48	32.69	
Supplemental oxygen						
6 Months - 4	5.78	5.75	24	10.05	133.11	
5-17	5.57	5.54	30	4.87	64.38	
18-49	5.08	5.06	122	14.82	197.96	
50-64	5.07	5.06	170	34.00	459.34	
65+	5.19	5.18	473	32.23	434.34	

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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with New Outcome per 1,000 New Diagnoses	New Diagnoses with New Outcome per 1,000 Years at Risk	Eligible Member Years ¹
Mechanical ventilation						
6 Months - 4	5.78	5.74	0	0.00	0.00	
5-17	5.57	5.53	0	0.00	0.00	
18-49	5.07	5.05	12	1.35	17.89	
50-64	5.06	5.05	33	5.53	73.25	
65+	5.14	5.13	91	5.02	66.33	
Critical Care						
6 Months - 4	5.78	5.74	*****	*****	*****	
5-17	5.57	5.53	*****	*****	*****	
18-49	5.08	5.06	129	14.84	198.00	
50-64	5.08	5.07	242	42.66	579.36	
65+	5.19	5.18	969	58.72	802.88	
ECMO						
6 Months - 4	5.77	5.74	0	0.00	0.00	
5-17	5.57	5.53	0	0.00	0.00	
18-49	5.07	5.05	*****	*****	*****	
50-64	5.06	5.04	0	0.00	0.00	
65+	5.14	5.13	0	0.00	0.00	
Death						
6 Months - 4	5.77	5.74	0	0.00	0.00	
5-17	5.57	5.53	0	0.00	0.00	
18-49	5.07	5.05	*****	*****	*****	
50-64	5.06	5.05	*****	*****	*****	
65+	5.14	5.13	218	12.01	158.86	

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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with New Outcome per 1,000 New Diagnoses	New Diagnoses with New Outcome per 1,000 Years at Risk	Eligible Member Years ¹
Discharge from hospital alive						
6 Months - 4	5.78	5.74	12	4.89	64.66	
5-17	5.57	5.53	11	1.75	23.05	
18-49	5.08	5.06	195	22.28	298.58	
50-64	5.07	5.06	279	48.55	662.39	
65+	5.18	5.17	1,171	69.84	964.10	
ILI - Treated 1-5 Days After Diagnosis						
Hospitalization						
6 Months - 4	5.79	5.75	17	5.97	79.66	
5-17	5.57	5.54	19	2.60	34.61	
18-49	5.04	5.02	295	28.11	381.48	
50-64	4.93	4.92	430	55.38	769.78	
65+	4.91	4.90	1,925	76.47	1,079.64	
BiPAP						
6 Months - 4	5.78	5.74	0	0.00	0.00	
5-17	5.56	5.52	0	0.00	0.00	
18-49	4.93	4.91	34	2.96	39.71	
50-64	4.59	4.58	75	7.23	98.46	
65+	4.39	4.38	97	2.30	31.57	
Supplemental oxygen						
6 Months - 4	5.80	5.75	31	11.08	148.33	
5-17	5.57	5.53	35	4.85	64.72	
18-49	4.95	4.93	182	17.22	233.51	
50-64	4.61	4.60	352	41.30	575.07	
65+	4.41	4.40	1,332	38.79	545.68	

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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with New Diagnoses Outcome per 1,000 New Diagnoses	New Diagnoses with New Diagnoses Outcome per 1,000 Years at Risk	Eligible Member Years ¹
Mechanical ventilation						
6 Months - 4	5.78	5.74	0	0.00	0.00	
5-17	5.56	5.52	0	0.00	0.00	
18-49	4.94	4.92	20	1.74	23.40	
50-64	4.61	4.59	77	7.48	102.04	
65+	4.40	4.39	242	5.80	79.55	
Critical Care						
6 Months - 4	5.78	5.74	11	3.85	51.31	
5-17	5.57	5.54	12	1.64	21.87	
18-49	5.02	5.00	183	17.35	234.31	
50-64	4.87	4.86	380	47.60	659.15	
65+	4.76	4.75	1,675	60.66	851.03	
ECMO						
6 Months - 4	5.78	5.74	0	0.00	0.00	
5-17	5.56	5.52	0	0.00	0.00	
18-49	4.93	4.91	*****	*****	*****	
50-64	4.59	4.58	*****	*****	*****	
65+	4.39	4.38	0	0.00	0.00	
Death						
6 Months - 4	5.78	5.74	0	0.00	0.00	
5-17	5.56	5.52	0	0.00	0.00	
18-49	4.93	4.91	*****	*****	*****	
50-64	4.59	4.58	*****	*****	*****	
65+	4.39	4.38	491	11.66	160.27	

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, 2016 and June 30, 2017 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 ¹
Discharge from hospital alive						
6 Months - 4	5.78	5.74	13	4.55	60.72	
5-17	5.57	5.54	12	1.64	21.81	
18-49	5.04	5.02	256	24.34	329.73	
50-64	4.92	4.91	407	52.05	721.89	
65+	4.90	4.89	1,848	72.65	1,024.28	
ILI - NOT Treated 0-5 Days After Diagnosis						
Hospitalization						
6 Months - 4	0.00		69	2.24	34.46	
5-17	0.00		137	1.50	23.13	
18-49	0.00		937	9.06	140.71	
50-64	0.00		1,369	23.65	370.58	
65+	0.00		5,557	46.05	732.26	
BiPAP						
6 Months - 4	0.00		*****	*****	*****	
5-17	0.00		*****	*****	*****	
18-49	0.00		257	2.43	37.68	
50-64	0.00		362	5.73	88.89	
65+	0.00		349	2.23	34.76	
Supplemental oxygen						
6 Months - 4	0.00		218	7.20	111.30	
5-17	0.00		253	2.81	43.30	
18-49	0.00		654	6.42	99.63	
50-64	0.00		1,085	18.54	290.04	
65+	0.00		4,219	29.72	470.58	

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, 2016 and June 30, 2017 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 ¹
Mechanical ventilation						
6 Months - 4	0.00		*****	*****	*****	
5-17	0.00		*****	*****	*****	
18-49	0.00		83	0.79	12.18	
50-64	0.00		246	3.94	61.07	
65+	0.00		1,086	7.14	111.10	
Critical Care						
6 Months - 4	0.00		42	1.36	20.93	
5-17	0.00		78	0.86	13.16	
18-49	0.00		690	6.68	103.54	
50-64	0.00		1,223	21.22	331.88	
65+	0.00		4,888	40.38	639.15	
ECMO						
6 Months - 4	0.00		0	0.00	0.00	
5-17	0.00		0	0.00	0.00	
18-49	0.00		0	0.00	0.00	
50-64	0.00		*****	*****	*****	
65+	0.00		0	0.00	0.00	
Death						
6 Months - 4	0.00		0	0.00	0.00	
5-17	0.00		0	0.00	0.00	
18-49	0.00		72	0.68	10.54	
50-64	0.00		306	4.85	75.04	
65+	0.00		4,570	29.55	462.83	

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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with New Outcome per 1,000 New Diagnoses	New Diagnoses with New Outcome per 1,000 Years at Risk	Eligible Member Years ¹
Discharge from hospital alive						
6 Months - 4	0.00		49	1.59	24.44	
5-17	0.00		112	1.23	18.90	
18-49	0.00		844	8.15	126.57	
50-64	0.00		1,305	22.44	351.63	
65+	0.00		5,234	42.65	679.80	
ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis						
Hospitalization						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
BiPAP						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
Supplemental oxygen						
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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with New Outcome per 1,000 New Diagnoses	New Diagnoses with New Outcome per 1,000 Years at Risk	Eligible Member Years ¹
Mechanical ventilation						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
Critical Care						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
ECMO						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
Death						
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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with New Outcome per 1,000 New Diagnoses	New Diagnoses with New Outcome per 1,000 Years at Risk	Eligible Member Years ¹
Discharge from hospital alive						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
ILI - Excluded: Outcome and Treatment, on Day of Diagnosis						
Hospitalization						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
BiPAP						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
Supplemental oxygen						
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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with New Outcome per 1,000 New Diagnoses	New Diagnoses with New Outcome per 1,000 Years at Risk	Eligible Member Years ¹
Mechanical ventilation						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
Critical Care						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
ECMO						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
Death						
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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with New Outcome per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years ¹
Discharge from hospital alive						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis						
Hospitalization						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
BiPAP						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
Supplemental oxygen						
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, 2016 and June 30, 2017 by Age Group

Age Group (Years)	Days Supplied per Member	Days Supplied per Dispensing	New Diagnoses with Outcome	New Diagnoses with New Outcome per 1,000 New Diagnoses	New Diagnoses with New Outcome per 1,000 Years at Risk	Eligible Member Years ¹
Mechanical ventilation						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
Critical Care						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
ECMO						
6 Months - 4						
5-17						
18-49						
50-64						
65+						
Death						
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, 2016 and June 30, 2017 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 ¹
Discharge from hospital alive						
6 Months - 4						
5-17						
18-49						
50-64						
65+						

¹Eligible 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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
ILI					
Total					
<i>2016</i>					
July	5,894	64,713,538	5,894	0.0	0.21
August	7,072	65,590,835	7,072	0.0	0.23
September	13,061	64,788,999	13,061	0.0	0.28
October	19,362	65,444,206	19,362	0.0	0.33
November	26,792	64,764,705	26,792	0.0	0.40
December	78,788	65,663,892	78,788	0.0	0.54
<i>2017</i>					
January	186,905	60,780,503	186,905	0.0	0.58
February	322,002	60,089,800	322,002	0.0	0.61
March	235,075	60,314,729	235,075	0.0	0.58
April	78,686	60,474,684	78,686	0.0	0.51
May	24,491	60,505,948	24,491	0.0	0.43
June	10,883	60,679,631	10,883	0.0	0.33
Treated on Day of Diagnosis					
<i>2016</i>					
July	1,020		1,020	80.7	1.00
August	1,399		1,399	110.3	1.00
September	3,246		3,246	255.8	1.00
October	5,677		5,677	448.4	1.00
November	9,451		9,451	745.4	1.00
December	35,192		35,192	2,641.9	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
<i>2017</i>					
January	91,341		91,341	7,218.1	1.00
February	170,146		170,146	13,434.3	1.00
March	119,081		119,081	9,407.8	1.00
April	34,529		34,529	2,730.3	1.01
May	9,201		9,201	727.3	1.00
June	3,063		3,063	139.0	1.00
Treated Day After Diagnosis					
<i>2016</i>					
July	110		110	8.4	1.00
August	130		130	9.9	1.00
September	283		283	21.7	1.00
October	437		437	33.3	1.00
November	775		775	59.2	1.00
December	3,733		3,733	274.6	1.00
<i>2017</i>					
January	8,773		8,773	669.3	1.00
February	14,125		14,125	1,077.5	1.00
March	9,413		9,413	717.6	1.00
April	3,029		3,029	231.2	1.00
May	739		739	56.5	1.00
June	246		246	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Treated 1-5 Days After Diagnosis					
<i>2016</i>					
July	189		189	14.1	1.00
August	200		200	14.9	1.00
September	452		452	33.7	1.00
October	745		745	55.3	1.00
November	1,287		1,287	95.4	1.00
December	6,745		6,745	484.0	1.00
<i>2017</i>					
January	15,900		15,900	1,177.0	1.00
February	24,860		24,860	1,842.7	1.00
March	16,562		16,562	1,227.0	1.00
April	5,624		5,624	416.4	1.00
May	1,293		1,293	96.1	1.00
June	450		450	18.6	1.00
NOT Treated Within 5 Days of Diagnosis					
<i>2016</i>					
July	4,674		4,674	305.3	0.00
August	5,456		5,456	356.0	0.00
September	9,327		9,327	609.0	0.00
October	12,906		12,906	842.3	0.00
November	15,996		15,996	1,043.7	0.00
December	35,598		35,598	2,259.1	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2017					
January	79,391		79,391	5,173.6	0.00
February	126,603		126,603	8,243.0	0.00
March	99,128		99,128	6,463.7	0.00
April	38,465		38,465	2,509.5	0.00
May	13,970		13,970	911.3	0.00
June	6,073		6,073	225.3	0.00
ILI - Treated Day of Diagnosis					
Hospitalization					
2016					
July	1,020		1,020	79.0	1.00
August	1,398		1,398	108.5	1.00
September	3,242		3,242	251.2	1.00
October	5,669		5,669	439.5	1.00
November	9,436		9,436	731.8	1.00
December	35,155		35,155	2,608.1	1.00
2017					
January	91,214		91,214	7,129.0	1.00
February	169,913		169,913	13,271.6	1.00
March	118,948		118,948	9,295.5	1.00
April	34,490		34,490	2,693.2	1.01
May	9,199		9,199	717.8	1.00
June	3,058		3,058	137.4	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Bilevel Positive Airway Pressure (BiPAP)					
<i>2016</i>					
July	1,020		1,020	80.3	1.00
August	1,399		1,399	110.0	1.00
September	3,244		3,244	255.2	1.00
October	5,675		5,675	447.4	1.00
November	9,450		9,450	744.2	1.00
December	35,185		35,185	2,637.2	1.00
<i>2017</i>					
January	91,335		91,335	7,206.7	1.00
February	170,122		170,122	13,413.7	1.00
March	119,072		119,072	9,390.3	1.00
April	34,524		34,524	2,725.5	1.01
May	9,200		9,200	726.3	1.00
June	3,063		3,063	139.0	1.00
Supplemental oxygen					
<i>2016</i>					
July	995		995	77.7	1.00
August	1,362		1,362	105.7	1.00
September	3,151		3,151	244.8	1.00
October	5,523		5,523	431.7	1.00
November	9,203		9,203	718.4	1.00
December	34,010		34,010	2,525.6	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
<i>2017</i>					
January	88,596		88,596	6,937.2	1.00
February	165,602		165,602	12,955.9	1.00
March	115,958		115,958	9,069.3	1.00
April	33,545		33,545	2,623.2	1.01
May	8,938		8,938	698.4	1.00
June	2,982		2,982	134.4	1.00
Mechanical ventilation					
<i>2016</i>					
July	1,020		1,020	80.5	1.00
August	1,399		1,399	110.2	1.00
September	3,245		3,245	255.1	1.00
October	5,676		5,676	448.0	1.00
November	9,450		9,450	744.8	1.00
December	35,188		35,188	2,639.2	1.00
<i>2017</i>					
January	91,334		91,334	7,213.9	1.00
February	170,126		170,126	13,424.4	1.00
March	119,071		119,071	9,400.0	1.00
April	34,527		34,527	2,727.8	1.01
May	9,201		9,201	727.0	1.00
June	3,063		3,063	138.9	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Critical Care					
<i>2016</i>					
July	1,020		1,020	79.3	1.00
August	1,397		1,397	108.6	1.00
September	3,244		3,244	252.3	1.00
October	5,669		5,669	441.6	1.00
November	9,428		9,428	733.8	1.00
December	35,130		35,130	2,614.2	1.00
<i>2017</i>					
January	91,202		91,202	7,147.4	1.00
February	169,899		169,899	13,302.3	1.00
March	118,925		118,925	9,313.8	1.00
April	34,482		34,482	2,699.1	1.01
May	9,196		9,196	719.4	1.00
June	3,056		3,056	137.4	1.00
Extracorporeal membrane oxygenation (ECMO)					
<i>2016</i>					
July	1,020		1,020	80.7	1.00
August	1,399		1,399	110.3	1.00
September	3,246		3,246	255.8	1.00
October	5,677		5,677	448.4	1.00
November	9,451		9,451	745.4	1.00
December	35,192		35,192	2,641.9	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2017					
January	91,341		91,341	7,218.1	1.00
February	170,145		170,145	13,434.0	1.00
March	119,081		119,081	9,407.8	1.00
April	34,529		34,529	2,730.2	1.01
May	9,201		9,201	727.3	1.00
June	3,063		3,063	139.0	1.00
Death					
2016					
July	1,020		1,020	80.7	1.00
August	1,399		1,399	110.3	1.00
September	3,246		3,246	255.6	1.00
October	5,677		5,677	448.4	1.00
November	9,451		9,451	745.1	1.00
December	35,192		35,192	2,640.8	1.00
2017					
January	91,340		91,340	7,213.8	1.00
February	170,142		170,142	13,428.6	1.00
March	119,080		119,080	9,402.8	1.00
April	34,528		34,528	2,729.6	1.01
May	9,201		9,201	727.2	1.00
June	3,063		3,063	139.0	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Discharge from hospital alive					
<i>2016</i>					
July	1,020		1,020	79.0	1.00
August	1,398		1,398	108.6	1.00
September	3,244		3,244	251.5	1.00
October	5,669		5,669	439.9	1.00
November	9,436		9,436	732.5	1.00
December	35,157		35,157	2,609.9	1.00
<i>2017</i>					
January	91,220		91,220	7,133.5	1.00
February	169,924		169,924	13,278.7	1.00
March	118,957		118,957	9,301.5	1.00
April	34,490		34,490	2,694.7	1.01
May	9,199		9,199	718.3	1.00
June	3,058		3,058	137.4	1.00
ILI - Treated Day After Diagnosis					
Hospitalization					
<i>2016</i>					
July	104		104	7.7	1.00
August	124		124	9.1	1.00
September	271		271	20.3	1.00
October	423		423	30.9	1.00
November	733		733	53.5	1.00
December	3,555		3,555	254.7	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2017					
January	8,385		8,385	622.2	1.00
February	13,554		13,554	1,006.6	1.00
March	9,022		9,022	665.0	1.00
April	2,861		2,861	211.0	1.00
May	708		708	52.5	1.00
June	225		225	9.5	1.00
BiPAP					
2016					
July	110		110	8.4	1.00
August	130		130	9.9	1.00
September	283		283	21.7	1.00
October	437		437	33.3	1.00
November	775		775	59.0	1.00
December	3,732		3,732	274.5	1.00
2017					
January	8,772		8,772	668.4	1.00
February	14,124		14,124	1,076.2	1.00
March	9,411		9,411	716.1	1.00
April	3,029		3,029	231.0	1.00
May	739		739	56.3	1.00
June	246		246	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Supplemental oxygen					
<i>2016</i>					
July	102		102	7.6	1.00
August	117		117	8.6	1.00
September	261		261	19.7	1.00
October	401		401	29.7	1.00
November	692		692	52.0	1.00
December	3,252		3,252	235.4	1.00
<i>2017</i>					
January	7,682		7,682	576.5	1.00
February	12,404		12,404	933.3	1.00
March	8,111		8,111	607.7	1.00
April	2,597		2,597	194.7	1.00
May	640		640	47.9	1.00
June	206		206	8.6	1.00
Mechanical ventilation					
<i>2016</i>					
July	110		110	8.4	1.00
August	130		130	9.8	1.00
September	283		283	21.6	1.00
October	436		436	32.8	1.00
November	773		773	58.8	1.00
December	3,730		3,730	274.2	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2017					
January	8,768		8,768	667.4	1.00
February	14,116		14,116	1,074.8	1.00
March	9,400		9,400	715.1	1.00
April	3,027		3,027	230.6	1.00
May	736		736	56.2	1.00
June	245		245	10.5	1.00
Critical Care					
2016					
July	104		104	7.8	1.00
August	125		125	9.2	1.00
September	270		270	20.3	1.00
October	419		419	30.9	1.00
November	725		725	53.3	1.00
December	3,523		3,523	254.2	1.00
2017					
January	8,320		8,320	621.3	1.00
February	13,453		13,453	1,005.2	1.00
March	8,917		8,917	663.6	1.00
April	2,827		2,827	210.5	1.00
May	690		690	51.1	1.00
June	218		218	9.1	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
ECMO					
<i>2016</i>					
July	110		110	8.4	1.00
August	130		130	9.9	1.00
September	283		283	21.7	1.00
October	437		437	33.3	1.00
November	775		775	59.2	1.00
December	3,733		3,733	274.6	1.00
<i>2017</i>					
January	8,773		8,773	669.3	1.00
February	14,125		14,125	1,077.5	1.00
March	9,413		9,413	717.6	1.00
April	3,029		3,029	231.1	1.00
May	739		739	56.5	1.00
June	246		246	10.5	1.00
Death					
<i>2016</i>					
July	110		110	8.4	1.00
August	130		130	9.8	1.00
September	283		283	21.7	1.00
October	437		437	33.2	1.00
November	775		775	59.0	1.00
December	3,732		3,732	274.2	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2017					
January	8,773		8,773	667.9	1.00
February	14,125		14,125	1,075.3	1.00
March	9,412		9,412	715.8	1.00
April	3,029		3,029	230.7	1.00
May	739		739	56.5	1.00
June	246		246	10.5	1.00
Discharge from hospital alive					
2016					
July	104		104	7.7	1.00
August	124		124	9.1	1.00
September	271		271	20.3	1.00
October	423		423	30.9	1.00
November	735		735	54.0	1.00
December	3,561		3,561	255.2	1.00
2017					
January	8,397		8,397	623.9	1.00
February	13,571		13,571	1,009.5	1.00
March	9,034		9,034	667.6	1.00
April	2,863		2,863	211.6	1.00
May	709		709	52.6	1.00
June	225		225	9.5	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
ILI - Treated 1-5 Days After Diagnosis					
Hospitalization					
<i>2016</i>					
July	146		146	10.6	1.00
August	158		158	11.4	1.00
September	365		365	26.7	1.00
October	578		578	41.7	1.00
November	970		970	70.0	1.00
December	4,839		4,839	341.4	1.00
<i>2017</i>					
January	11,369		11,369	827.2	1.00
February	18,065		18,065	1,317.1	1.00
March	11,993		11,993	870.3	1.00
April	3,859		3,859	279.4	1.00
May	940		940	68.8	1.00
June	308		308	12.6	1.00
BiPAP					
<i>2016</i>					
July	189		189	14.1	1.00
August	200		200	14.9	1.00
September	452		452	33.7	1.00
October	745		745	55.3	1.00
November	1,287		1,287	95.2	1.00
December	6,742		6,742	483.5	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2017					
January	15,896		15,896	1,174.9	1.00
February	24,852		24,852	1,839.6	1.00
March	16,558		16,558	1,224.7	1.00
April	5,623		5,623	415.9	1.00
May	1,291		1,291	95.8	1.00
June	450		450	18.6	1.00
Supplemental oxygen					
2016					
July	174		174	12.7	1.00
August	174		174	12.6	1.00
September	410		410	30.1	1.00
October	664		664	47.9	1.00
November	1,122		1,122	81.9	1.00
December	5,754		5,754	405.8	1.00
2017					
January	13,664		13,664	991.1	1.00
February	21,256		21,256	1,547.0	1.00
March	13,961		13,961	1,011.8	1.00
April	4,767		4,767	345.5	1.00
May	1,109		1,109	80.6	1.00
June	387		387	15.5	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Mechanical ventilation					
<i>2016</i>					
July	189		189	14.0	1.00
August	198		198	14.7	1.00
September	451		451	33.5	1.00
October	739		739	54.5	1.00
November	1,276		1,276	94.3	1.00
December	6,704		6,704	480.6	1.00
<i>2017</i>					
January	15,802		15,802	1,166.6	1.00
February	24,685		24,685	1,825.4	1.00
March	16,459		16,459	1,216.0	1.00
April	5,593		5,593	413.4	1.00
May	1,286		1,286	95.5	1.00
June	445		445	18.4	1.00
Critical Care					
<i>2016</i>					
July	151		151	11.0	1.00
August	161		161	11.7	1.00
September	375		375	27.4	1.00
October	579		579	42.1	1.00
November	992		992	71.8	1.00
December	5,083		5,083	360.0	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2017					
January	11,973		11,973	875.8	1.00
February	18,973		18,973	1,386.9	1.00
March	12,590		12,590	918.0	1.00
April	4,141		4,141	300.6	1.00
May	976		976	71.1	1.00
June	310		310	12.6	1.00
ECMO					
2016					
July	189		189	14.1	1.00
August	200		200	14.9	1.00
September	452		452	33.7	1.00
October	745		745	55.3	1.00
November	1,287		1,287	95.4	1.00
December	6,745		6,745	484.0	1.00
2017					
January	15,900		15,900	1,177.0	1.00
February	24,860		24,860	1,842.7	1.00
March	16,562		16,562	1,227.0	1.00
April	5,624		5,624	416.4	1.00
May	1,293		1,293	96.1	1.00
June	450		450	18.6	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Death					
<i>2016</i>					
July	189		189	14.0	1.00
August	200		200	14.9	1.00
September	452		452	33.7	1.00
October	745		745	55.2	1.00
November	1,287		1,287	95.2	1.00
December	6,744		6,744	482.8	1.00
<i>2017</i>					
January	15,900		15,900	1,173.4	1.00
February	24,859		24,859	1,838.3	1.00
March	16,560		16,560	1,223.7	1.00
April	5,623		5,623	415.2	1.00
May	1,293		1,293	95.9	1.00
June	450		450	18.6	1.00
Discharge from hospital alive					
<i>2016</i>					
July	146		146	10.6	1.00
August	158		158	11.4	1.00
September	366		366	26.8	1.00
October	580		580	41.9	1.00
November	978		978	70.9	1.00
December	4,879		4,879	344.4	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2017					
January	11,439		11,439	833.4	1.00
February	18,185		18,185	1,327.8	1.00
March	12,079		12,079	877.7	1.00
April	3,887		3,887	281.9	1.00
May	947		947	69.4	1.00
June	308		308	12.6	1.00
ILI - NOT Treated 0-5 Days After Diagnosis					
Hospitalization					
2016					
July	4,282		4,282	274.5	0.00
August	5,056		5,056	324.7	0.00
September	8,719		8,719	561.3	0.00
October	11,978		11,978	770.6	0.00
November	14,718		14,718	948.9	0.00
December	31,755		31,755	1,988.4	0.00
2017					
January	70,193		70,193	4,531.9	0.00
February	113,734		113,734	7,346.0	0.00
March	90,214		90,214	5,836.5	0.00
April	34,827		34,827	2,250.6	0.00
May	12,860		12,860	828.4	0.00
June	5,583		5,583	204.5	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
BiPAP					
<i>2016</i>					
July	4,667		4,667	304.7	0.00
August	5,448		5,448	354.8	0.00
September	9,311		9,311	607.1	0.00
October	12,897		12,897	840.6	0.00
November	15,977		15,977	1,041.1	0.00
December	35,577		35,577	2,255.1	0.00
<i>2017</i>					
January	79,347		79,347	5,166.0	0.00
February	126,537		126,537	8,229.8	0.00
March	99,073		99,073	6,453.3	0.00
April	38,431		38,431	2,503.5	0.00
May	13,954		13,954	909.1	0.00
June	6,068		6,068	225.1	0.00
Supplemental oxygen					
<i>2016</i>					
July	4,507		4,507	292.4	0.00
August	5,261		5,261	340.5	0.00
September	8,999		8,999	582.7	0.00
October	12,396		12,396	802.4	0.00
November	15,261		15,261	986.2	0.00
December	33,412		33,412	2,099.6	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
<i>2017</i>					
January	74,665		74,665	4,817.4	0.00
February	119,314		119,314	7,695.6	0.00
March	93,534		93,534	6,047.0	0.00
April	36,181		36,181	2,337.4	0.00
May	13,257		13,257	857.9	0.00
June	5,784		5,784	212.6	0.00
Mechanical ventilation					
<i>2016</i>					
July	4,637		4,637	302.4	0.00
August	5,416		5,416	352.9	0.00
September	9,256		9,256	603.6	0.00
October	12,798		12,798	834.0	0.00
November	15,823		15,823	1,031.1	0.00
December	35,117		35,117	2,225.3	0.00
<i>2017</i>					
January	78,231		78,231	5,093.0	0.00
February	125,038		125,038	8,138.1	0.00
March	98,015		98,015	6,387.3	0.00
April	38,017		38,017	2,477.4	0.00
May	13,863		13,863	903.0	0.00
June	6,012		6,012	222.7	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Critical Care					
<i>2016</i>					
July	4,225		4,225	271.3	0.00
August	4,993		4,993	321.6	0.00
September	8,683		8,683	560.2	0.00
October	11,946		11,946	770.8	0.00
November	14,695		14,695	949.7	0.00
December	31,780		31,780	1,995.3	0.00
<i>2017</i>					
January	70,284		70,284	4,548.5	0.00
February	114,170		114,170	7,385.8	0.00
March	90,265		90,265	5,846.9	0.00
April	34,788		34,788	2,252.7	0.00
May	12,787		12,787	824.8	0.00
June	5,510		5,510	202.3	0.00
ECMO					
<i>2016</i>					
July	4,674		4,674	305.3	0.00
August	5,456		5,456	356.0	0.00
September	9,327		9,327	609.0	0.00
October	12,905		12,905	842.3	0.00
November	15,996		15,996	1,043.7	0.00
December	35,592		35,592	2,258.8	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2017					
January	79,388		79,388	5,173.4	0.00
February	126,592		126,592	8,242.3	0.00
March	99,126		99,126	6,463.5	0.00
April	38,463		38,463	2,509.4	0.00
May	13,967		13,967	911.1	0.00
June	6,073		6,073	225.3	0.00
Death					
2016					
July	4,654		4,654	303.2	0.00
August	5,436		5,436	353.5	0.00
September	9,293		9,293	606.0	0.00
October	12,876		12,876	838.2	0.00
November	15,948		15,948	1,038.2	0.00
December	35,458		35,458	2,241.2	0.00
2017					
January	79,013		79,013	5,130.3	0.00
February	126,089		126,089	8,189.3	0.00
March	98,728		98,728	6,420.4	0.00
April	38,287		38,287	2,492.3	0.00
May	13,911		13,911	904.9	0.00
June	6,043		6,043	223.3	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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Discharge from hospital alive					
<i>2016</i>					
July	4,303		4,303	275.7	0.00
August	5,081		5,081	326.2	0.00
September	8,755		8,755	563.8	0.00
October	12,036		12,036	774.5	0.00
November	14,809		14,809	954.6	0.00
December	31,978		31,978	2,002.3	0.00
<i>2017</i>					
January	70,711		70,711	4,561.2	0.00
February	114,433		114,433	7,383.1	0.00
March	90,738		90,738	5,866.6	0.00
April	35,031		35,031	2,262.8	0.00
May	12,914		12,914	831.8	0.00
June	5,609		5,609	205.6	0.00
ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis					
Hospitalization					
<i>2016</i>					
July	437		437		
August	442		442		
September	696		696		
October	1,096		1,096		
November	1,590		1,590		
December	5,790		5,790		

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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2017					
January	13,673		13,673		
February	19,584		19,584		
March	13,424		13,424		
April	5,379		5,379		
May	1,456		1,456		
June	710		710		
BiPAP					
2016					
July	*****		*****		
August	*****		*****		
September	16		16		
October	*****		*****		
November	19		19		
December	23		23		
2017					
January	47		47		
February	73		73		
March	57		57		
April	35		35		
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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Supplemental oxygen					
<i>2016</i>					
July	181		181		
August	221		221		
September	369		369		
October	590		590		
November	898		898		
December	3,222		3,222		
<i>2017</i>					
January	6,909		6,909		
February	10,814		10,814		
March	8,128		8,128		
April	3,113		3,113		
May	892		892		
June	399		399		
Mechanical ventilation					
<i>2016</i>					
July	37		37		
August	42		42		
September	72		72		
October	117		117		
November	184		184		
December	535		535		

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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2017					
January	1,265		1,265		
February	1,749		1,749		
March	1,218		1,218		
April	478		478		
May	115		115		
June	78		78		
Critical Care					
2016					
July	489		489		
August	502		502		
September	723		723		
October	1,129		1,129		
November	1,600		1,600		
December	5,513		5,513		
2017					
January	12,979		12,979		
February	18,232		18,232		
March	12,715		12,715		
April	5,130		5,130		
May	1,494		1,494		
June	791		791		

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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
ECMO					
<i>2016</i>					
July	0		0		
August	0		0		
September	0		0		
October	*****		*****		
November	0		0		
December	*****		*****		
<i>2017</i>					
January	*****		*****		
February	11		11		
March	*****		*****		
April	*****		*****		
May	*****		*****		
June	0		0		
Death					
<i>2016</i>					
July	23		23		
August	21		21		
September	40		40		
October	35		35		
November	58		58		
December	181		181		

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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2017					
January	420		420		
February	569		569		
March	434		434		
April	191		191		
May	64		64		
June	34		34		
Discharge from hospital alive					
2016					
July	416		416		
August	417		417		
September	658		658		
October	1,032		1,032		
November	1,490		1,490		
December	5,505		5,505		
2017					
January	13,072		13,072		
February	18,747		18,747		
March	12,802		12,802		
April	5,145		5,145		
May	1,393		1,393		
June	684		684		

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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
ILI - Excluded: Outcome and Treatment, on Day of Diagnosis					
Hospitalization					
<i>2016</i>					
July	0		0		
August	*****		*****		
September	*****		*****		
October	*****		*****		
November	15		15		
December	37		37		
<i>2017</i>					
January	127		127		
February	233		233		
March	134		134		
April	39		39		
May	*****		*****		
June	*****		*****		
BiPAP					
<i>2016</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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2017					
January	*****		*****		
February	24		24		
March	*****		*****		
April	*****		*****		
May	*****		*****		
June	0		0		
Supplemental oxygen					
2016					
July	25		25		
August	37		37		
September	95		95		
October	154		154		
November	248		248		
December	1,187		1,187		
2017					
January	2,745		2,745		
February	4,547		4,547		
March	3,126		3,126		
April	985		985		
May	263		263		
June	82		82		

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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Mechanical ventilation					
<i>2016</i>					
July	0		0		
August	0		0		
September	*****		*****		
October	*****		*****		
November	*****		*****		
December	*****		*****		
<i>2017</i>					
January	*****		*****		
February	20		20		
March	*****		*****		
April	*****		*****		
May	0		0		
June	0		0		
Critical Care					
<i>2016</i>					
July	0		0		
August	*****		*****		
September	*****		*****		
October	*****		*****		
November	23		23		
December	62		62		

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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2017					
January	139		139		
February	247		247		
March	157		157		
April	47		47		
May	*****		*****		
June	*****		*****		
ECMO					
2016					
July	0		0		
August	0		0		
September	0		0		
October	0		0		
November	0		0		
December	0		0		
2017					
January	0		0		
February	*****		*****		
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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Death					
<i>2016</i>					
July	0		0		
August	0		0		
September	*****		*****		
October	0		0		
November	0		0		
December	0		0		
<i>2017</i>					
January	*****		*****		
February	*****		*****		
March	*****		*****		
April	*****		*****		
May	0		0		
June	0		0		
Discharge from hospital alive					
<i>2016</i>					
July	0		0		
August	*****		*****		
September	*****		*****		
October	*****		*****		
November	15		15		
December	35		35		

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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2017					
January	121		121		
February	222		222		
March	124		124		
April	39		39		
May	*****		*****		
June	*****		*****		
ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis					
Hospitalization					
2016					
July	*****		*****		
August	0		0		
September	0		0		
October	*****		*****		
November	*****		*****		
December	45		45		
2017					
January	85		85		
February	121		121		
March	85		85		
April	30		30		
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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
BiPAP					
<i>2016</i>					
July	0		0		
August	0		0		
September	0		0		
October	0		0		
November	0		0		
December	*****		*****		
<i>2017</i>					
January	*****		*****		
February	*****		*****		
March	*****		*****		
April	0		0		
May	*****		*****		
June	0		0		
Supplemental oxygen					
<i>2016</i>					
July	*****		*****		
August	0		0		
September	*****		*****		
October	*****		*****		
November	*****		*****		
December	25		25		

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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2017					
January	67		67		
February	97		97		
March	77		77		
April	30		30		
May	*****		*****		
June	*****		*****		
Mechanical ventilation					
2016					
July	0		0		
August	0		0		
September	0		0		
October	0		0		
November	0		0		
December	*****		*****		
2017					
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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Critical Care					
<i>2016</i>					
July	*****		*****		
August	0		0		
September	*****		*****		
October	*****		*****		
November	*****		*****		
December	62		62		
<i>2017</i>					
January	95		95		
February	144		144		
March	149		149		
April	43		43		
May	*****		*****		
June	*****		*****		
ECMO					
<i>2016</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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2017					
January	0		0		
February	0		0		
March	0		0		
April	0		0		
May	0		0		
June	0		0		
Death					
2016					
July	0		0		
August	0		0		
September	0		0		
October	0		0		
November	0		0		
December	*****		*****		
2017					
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, 2016 and June 30, 2017 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Discharge from hospital alive					
<i>2016</i>					
July	*****		*****		
August	0		0		
September	0		0		
October	*****		*****		
November	*****		*****		
December	43		43		
<i>2017</i>					
January	76		76		
February	108		108		
March	77		77		
April	28		28		
May	*****		*****		
June	*****		*****		

¹Eligible 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, 2016 and June 30, 2017 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 ¹
ILI						
Total						
<i>2016</i>						
July	1.06	5.15				5,466,568.3
August	1.16	5.12				5,484,951.8
September	1.46	5.15				5,311,676.6
October	1.74	5.23				5,485,164.6
November	2.08	5.19				5,308,863.8
December	2.73	5.10				5,474,816.5
<i>2017</i>						
January	2.98	5.17				5,068,124.3
February	3.14	5.17				4,570,044.8
March	2.99	5.17				5,072,010.1
April	2.64	5.15				4,940,269.5
May	2.22	5.16				5,117,828.7
June	1.71	5.17				4,971,987.7
Treated on Day of Diagnosis						
<i>2016</i>						
July	5.18	5.18				
August	5.20	5.20				
September	5.21	5.21				
October	5.27	5.27				
November	5.24	5.23				
December	5.22	5.19				

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, 2016 and June 30, 2017 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 ¹
2017						
January	5.28	5.26				
February	5.26	5.25				
March	5.27	5.25				
April	5.26	5.24				
May	5.26	5.23				
June	5.26	5.23				
Treated Day After Diagnosis						
2016						
July	5.15	5.15				
August	4.95	4.95				
September	5.19	5.19				
October	5.29	5.29				
November	5.35	5.34				
December	5.13	5.12				
2017						
January	5.25	5.23				
February	5.22	5.21				
March	5.16	5.14				
April	5.31	5.29				
May	5.08	5.07				
June	5.18	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, 2016 and June 30, 2017 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 ¹
Treated 1-5 Days After Diagnosis						
<i>2016</i>						
July	4.99	4.99				
August	4.64	4.64				
September	4.78	4.78				
October	4.95	4.94				
November	4.91	4.91				
December	4.68	4.67				
<i>2017</i>						
January	4.69	4.68				
February	4.69	4.68				
March	4.59	4.58				
April	4.63	4.63				
May	4.62	4.61				
June	4.74	4.73				
NOT Treated Within 5 Days of Diagnosis						
<i>2016</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, 2016 and June 30, 2017 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 ¹
2017						
January	0.00					
February	0.00					
March	0.00					
April	0.00					
May	0.00					
June	0.00					
ILI - Treated Day of Diagnosis						
Hospitalization						
2016						
July	5.18	5.18	28	27.45	354.43	
August	5.20	5.20	29	20.74	267.28	
September	5.21	5.21	77	23.75	306.53	
October	5.27	5.27	147	25.93	334.47	
November	5.23	5.23	221	23.42	302.00	
December	5.22	5.19	605	17.21	231.97	
2017						
January	5.28	5.26	1,507	16.52	211.39	
February	5.26	5.25	2,765	16.27	208.34	
March	5.27	5.25	1,920	16.14	206.55	
April	5.26	5.24	629	18.24	233.55	
May	5.26	5.23	171	18.59	238.23	
June	5.26	5.24	46	15.04	334.79	

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, 2016 and June 30, 2017 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 ¹
Bilevel Positive Airway Pressure (BiPAP)						
<i>2016</i>						
July	5.18	5.18	*****	*****	*****	
August	5.20	5.20	*****	*****	*****	
September	5.21	5.21	13	4.01	50.94	
October	5.27	5.27	20	3.52	44.70	
November	5.24	5.23	30	3.17	40.31	
December	5.22	5.19	106	3.01	40.19	
<i>2017</i>						
January	5.28	5.26	290	3.18	40.24	
February	5.26	5.25	494	2.90	36.83	
March	5.27	5.25	429	3.60	45.69	
April	5.26	5.24	114	3.30	41.83	
May	5.26	5.23	*****	*****	*****	
June	5.26	5.23	*****	*****	*****	
Supplemental oxygen						
<i>2016</i>						
July	5.18	5.18	19	19.10	244.53	
August	5.20	5.20	30	22.03	283.82	
September	5.20	5.20	66	20.95	269.61	
October	5.27	5.27	91	16.48	210.79	
November	5.24	5.24	134	14.56	186.53	
December	5.23	5.20	505	14.85	199.95	

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, 2016 and June 30, 2017 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 ¹
<i>2017</i>						
January	5.28	5.26	1,196	13.50	172.40	
February	5.27	5.25	2,183	13.18	168.49	
March	5.28	5.25	1,616	13.94	178.18	
April	5.27	5.24	528	15.74	201.28	
May	5.25	5.23	136	15.22	194.73	
June	5.26	5.23	36	12.07	267.86	
Mechanical ventilation						
<i>2016</i>						
July	5.18	5.18	*****	*****	*****	
August	5.20	5.20	*****	*****	*****	
September	5.21	5.21	*****	*****	*****	
October	5.27	5.27	*****	*****	*****	
November	5.24	5.23	*****	*****	*****	
December	5.22	5.19	46	1.31	17.43	
<i>2017</i>						
January	5.28	5.26	69	0.76	9.56	
February	5.26	5.25	165	0.97	12.29	
March	5.27	5.25	135	1.13	14.36	
April	5.26	5.24	44	1.27	16.13	
May	5.26	5.23	*****	*****	*****	
June	5.26	5.23	*****	*****	*****	

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, 2016 and June 30, 2017 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 ¹
Critical Care						
<i>2016</i>						
July	5.18	5.18	24	23.53	302.65	
August	5.20	5.20	24	17.18	220.99	
September	5.21	5.21	60	18.50	237.81	
October	5.27	5.27	111	19.58	251.36	
November	5.24	5.23	179	18.99	243.94	
December	5.22	5.19	460	13.09	175.96	
<i>2017</i>						
January	5.28	5.26	1,122	12.30	156.98	
February	5.26	5.25	2,118	12.47	159.22	
March	5.27	5.25	1,515	12.74	162.66	
April	5.26	5.24	498	14.44	184.51	
May	5.26	5.23	138	15.01	191.83	
June	5.26	5.24	40	13.09	291.12	
Extracorporeal membrane oxygenation (ECMO)						
<i>2016</i>						
July	5.18	5.18	0	0.00	0.00	
August	5.20	5.20	0	0.00	0.00	
September	5.21	5.21	0	0.00	0.00	
October	5.27	5.27	0	0.00	0.00	
November	5.24	5.23	0	0.00	0.00	
December	5.22	5.19	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, 2016 and June 30, 2017 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 ¹
2017						
January	5.28	5.26	0	0.00	0.00	
February	5.26	5.25	*****	*****	*****	
March	5.27	5.25	0	0.00	0.00	
April	5.26	5.24	*****	*****	*****	
May	5.26	5.23	0	0.00	0.00	
June	5.26	5.23	0	0.00	0.00	
Death						
2016						
July	5.18	5.18	*****	*****	*****	
August	5.20	5.20	*****	*****	*****	
September	5.21	5.21	*****	*****	*****	
October	5.27	5.27	*****	*****	*****	
November	5.24	5.23	*****	*****	*****	
December	5.22	5.19	41	1.17	15.53	
2017						
January	5.28	5.26	144	1.58	19.96	
February	5.26	5.25	214	1.26	15.94	
March	5.27	5.25	154	1.29	16.38	
April	5.26	5.24	23	0.67	8.43	
May	5.26	5.23	*****	*****	*****	
June	5.26	5.23	*****	*****	*****	

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, 2016 and June 30, 2017 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 ¹
Discharge from hospital alive						
<i>2016</i>						
July	5.18	5.18	28	27.45	354.43	
August	5.20	5.20	28	20.03	257.83	
September	5.21	5.21	73	22.50	290.26	
October	5.27	5.27	141	24.87	320.53	
November	5.23	5.23	209	22.15	285.32	
December	5.22	5.19	571	16.24	218.78	
<i>2017</i>						
January	5.28	5.26	1,416	15.52	198.50	
February	5.26	5.25	2,619	15.41	197.23	
March	5.27	5.25	1,800	15.13	193.52	
April	5.26	5.24	597	17.31	221.55	
May	5.26	5.23	162	17.61	225.53	
June	5.26	5.24	44	14.39	320.23	
ILI - Treated Day After Diagnosis						
Hospitalization						
<i>2016</i>						
July	5.18	5.18	*****	*****	*****	
August	4.98	4.98	*****	*****	*****	
September	5.23	5.23	*****	*****	*****	
October	5.28	5.28	27	63.83	873.79	
November	5.37	5.36	45	61.39	841.12	
December	5.16	5.14	146	41.07	573.22	

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, 2016 and June 30, 2017 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 ¹
2017						
January	5.27	5.25	358	42.70	575.38	
February	5.25	5.24	561	41.39	557.32	
March	5.19	5.17	445	49.32	669.17	
April	5.35	5.34	151	52.78	715.64	
May	5.11	5.10	*****	*****	*****	
June	5.21	5.19	*****	*****	*****	
BiPAP						
2016						
July	5.15	5.15	0	0.00	0.00	
August	4.95	4.95	0	0.00	0.00	
September	5.19	5.19	0	0.00	0.00	
October	5.29	5.29	0	0.00	0.00	
November	5.35	5.34	*****	*****	*****	
December	5.13	5.12	*****	*****	*****	
2017						
January	5.25	5.23	18	2.05	26.93	
February	5.22	5.21	32	2.27	29.73	
March	5.16	5.14	32	3.40	44.69	
April	5.31	5.29	*****	*****	*****	
May	5.08	5.07	*****	*****	*****	
June	5.18	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, 2016 and June 30, 2017 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 ¹
Supplemental oxygen						
<i>2016</i>						
July	5.17	5.17	*****	*****	*****	
August	4.91	4.91	*****	*****	*****	
September	5.21	5.21	*****	*****	*****	
October	5.26	5.26	15	37.41	505.05	
November	5.39	5.38	19	27.46	365.38	
December	5.15	5.13	66	20.30	280.37	
<i>2017</i>						
January	5.28	5.27	178	23.17	308.76	
February	5.26	5.25	245	19.75	262.51	
March	5.20	5.19	193	23.79	317.59	
April	5.38	5.36	65	25.03	333.85	
May	5.11	5.09	*****	*****	*****	
June	5.17	5.17	*****	*****	*****	
Mechanical ventilation						
<i>2016</i>						
July	5.15	5.15	0	0.00	0.00	
August	4.95	4.95	*****	*****	*****	
September	5.19	5.19	*****	*****	*****	
October	5.28	5.28	*****	*****	*****	
November	5.35	5.34	*****	*****	*****	
December	5.13	5.12	*****	*****	*****	

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, 2016 and June 30, 2017 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 ¹
2017						
January	5.25	5.23	32	3.65	47.95	
February	5.22	5.21	43	3.05	40.01	
March	5.16	5.14	*****	*****	*****	
April	5.31	5.29	*****	*****	*****	
May	5.08	5.07	0	0.00	0.00	
June	5.18	5.16	0	0.00	0.00	
Critical Care						
2016						
July	5.19	5.19	*****	*****	*****	
August	4.96	4.96	*****	*****	*****	
September	5.21	5.21	11	40.74	541.87	
October	5.28	5.28	21	50.12	679.61	
November	5.37	5.36	37	51.03	694.18	
December	5.15	5.13	100	28.38	393.39	
2017						
January	5.28	5.26	277	33.29	445.84	
February	5.25	5.24	441	32.78	438.72	
March	5.19	5.17	318	35.66	479.20	
April	5.37	5.36	108	38.20	513.06	
May	5.13	5.11	31	44.93	606.65	
June	5.27	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, 2016 and June 30, 2017 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 ¹
ECMO						
<i>2016</i>						
July	5.15	5.15	0	0.00	0.00	
August	4.95	4.95	0	0.00	0.00	
September	5.19	5.19	0	0.00	0.00	
October	5.29	5.29	0	0.00	0.00	
November	5.35	5.34	0	0.00	0.00	
December	5.13	5.12	0	0.00	0.00	
<i>2017</i>						
January	5.25	5.23	0	0.00	0.00	
February	5.22	5.21	0	0.00	0.00	
March	5.16	5.14	0	0.00	0.00	
April	5.31	5.29	*****	*****	*****	
May	5.08	5.07	0	0.00	0.00	
June	5.18	5.16	0	0.00	0.00	
Death						
<i>2016</i>						
July	5.15	5.15	*****	*****	*****	
August	4.95	4.95	*****	*****	*****	
September	5.19	5.19	*****	*****	*****	
October	5.29	5.29	*****	*****	*****	
November	5.35	5.34	*****	*****	*****	
December	5.14	5.12	14	3.75	51.06	

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, 2016 and June 30, 2017 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 ¹
2017						
January	5.25	5.23	55	6.27	82.35	
February	5.22	5.21	81	5.73	75.33	
March	5.16	5.14	57	6.06	79.63	
April	5.31	5.29	13	4.29	56.35	
May	5.08	5.07	0	0.00	0.00	
June	5.18	5.16	0	0.00	0.00	
Discharge from hospital alive						
2016						
July	5.18	5.18	*****	*****	*****	
August	4.98	4.98	*****	*****	*****	
September	5.23	5.23	*****	*****	*****	
October	5.28	5.28	25	59.10	809.06	
November	5.37	5.35	40	54.42	740.74	
December	5.15	5.14	143	40.16	560.34	
2017						
January	5.27	5.25	336	40.01	538.55	
February	5.25	5.24	519	38.24	514.12	
March	5.19	5.17	408	45.16	611.14	
April	5.36	5.34	140	48.90	661.63	
May	5.11	5.10	*****	*****	*****	
June	5.21	5.19	*****	*****	*****	

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, 2016 and June 30, 2017 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 ¹
ILI - Treated 1-5 Days After Diagnosis						
Hospitalization						
<i>2016</i>						
July	4.95	4.95	*****	*****	*****	
August	4.90	4.90	*****	*****	*****	
September	5.06	5.06	18	49.32	674.16	
October	5.24	5.24	37	64.01	887.29	
November	5.28	5.27	55	56.70	785.71	
December	5.02	5.01	220	45.46	644.41	
<i>2017</i>						
January	5.10	5.09	572	50.31	691.49	
February	5.08	5.07	866	47.94	657.51	
March	5.01	4.99	626	52.20	719.29	
April	5.16	5.15	229	59.34	819.61	
May	4.95	4.94	*****	*****	*****	
June	5.02	5.00	*****	*****	*****	
BiPAP						
<i>2016</i>						
July	4.99	4.99	*****	*****	*****	
August	4.64	4.64	0	0.00	0.00	
September	4.78	4.78	0	0.00	0.00	
October	4.95	4.94	0	0.00	0.00	
November	4.91	4.91	*****	*****	*****	
December	4.68	4.67	12	1.78	24.82	

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, 2016 and June 30, 2017 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 ¹
<i>2017</i>						
January	4.69	4.68	41	2.58	34.90	
February	4.69	4.68	73	2.94	39.68	
March	4.59	4.58	53	3.20	43.28	
April	4.64	4.63	12	2.13	28.85	
May	4.62	4.61	*****	*****	*****	
June	4.74	4.73	*****	*****	*****	
Supplemental oxygen						
<i>2016</i>						
July	5.04	5.04	*****	*****	*****	
August	4.58	4.58	*****	*****	*****	
September	4.82	4.82	17	41.46	564.78	
October	4.92	4.91	28	42.17	584.55	
November	4.98	4.97	33	29.41	402.93	
December	4.70	4.69	146	25.37	359.78	
<i>2017</i>						
January	4.72	4.71	428	31.32	431.84	
February	4.73	4.72	617	29.03	398.84	
March	4.65	4.64	461	33.02	455.62	
April	4.70	4.70	144	30.21	416.79	
May	4.65	4.65	*****	*****	*****	
June	4.69	4.69	*****	*****	*****	

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, 2016 and June 30, 2017 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 ¹
Mechanical ventilation						
<i>2016</i>						
July	4.99	4.99	*****	*****	*****	
August	4.65	4.65	*****	*****	*****	
September	4.79	4.79	*****	*****	*****	
October	4.95	4.94	*****	*****	*****	
November	4.93	4.92	*****	*****	*****	
December	4.68	4.67	15	2.24	31.21	
<i>2017</i>						
January	4.69	4.69	82	5.19	70.29	
February	4.69	4.69	116	4.70	63.55	
March	4.60	4.58	82	4.98	67.43	
April	4.64	4.63	20	3.58	48.38	
May	4.62	4.61	*****	*****	*****	
June	4.77	4.76	*****	*****	*****	
Critical Care						
<i>2016</i>						
July	4.94	4.94	*****	*****	*****	
August	4.88	4.88	*****	*****	*****	
September	5.03	5.03	20	53.33	729.93	
October	5.20	5.20	30	51.81	712.59	
November	5.20	5.19	50	50.40	696.38	
December	4.93	4.92	165	32.46	458.33	

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, 2016 and June 30, 2017 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 ¹
2017						
January	5.01	5.00	453	37.84	517.24	
February	4.99	4.98	765	40.32	551.59	
March	4.91	4.90	511	40.59	556.64	
April	5.01	5.00	197	47.57	655.36	
May	4.90	4.89	42	43.03	590.72	
June	5.10	5.08	13	41.94	1,031.75	
ECMO						
2016						
July	4.99	4.99	0	0.00	0.00	
August	4.64	4.64	0	0.00	0.00	
September	4.78	4.78	0	0.00	0.00	
October	4.95	4.94	0	0.00	0.00	
November	4.91	4.91	0	0.00	0.00	
December	4.68	4.67	0	0.00	0.00	
2017						
January	4.69	4.68	0	0.00	0.00	
February	4.69	4.68	*****	*****	*****	
March	4.59	4.58	0	0.00	0.00	
April	4.63	4.63	*****	*****	*****	
May	4.62	4.61	0	0.00	0.00	
June	4.74	4.73	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, 2016 and June 30, 2017 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 ¹
Death						
<i>2016</i>						
July	4.99	4.99	*****	*****	*****	
August	4.64	4.64	*****	*****	*****	
September	4.78	4.78	*****	*****	*****	
October	4.95	4.94	*****	*****	*****	
November	4.91	4.91	*****	*****	*****	
December	4.68	4.67	41	6.08	84.92	
<i>2017</i>						
January	4.69	4.68	137	8.62	116.75	
February	4.69	4.68	170	6.84	92.48	
March	4.59	4.58	116	7.00	94.79	
April	4.64	4.63	38	6.76	91.52	
May	4.62	4.61	*****	*****	*****	
June	4.74	4.73	*****	*****	*****	
Discharge from hospital alive						
<i>2016</i>						
July	4.95	4.95	*****	*****	*****	
August	4.90	4.90	*****	*****	*****	
September	5.06	5.06	18	49.18	671.64	
October	5.24	5.24	35	60.34	835.32	
November	5.26	5.25	50	51.12	705.22	
December	5.00	4.99	211	43.25	612.66	

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, 2016 and June 30, 2017 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 ¹
2017						
January	5.09	5.08	539	47.12	646.75	
February	5.07	5.06	811	44.60	610.78	
March	5.00	4.98	593	49.09	675.63	
April	5.15	5.14	218	56.08	773.32	
May	4.94	4.93	*****	*****	*****	
June	5.02	5.00	*****	*****	*****	
ILI - NOT Treated 0-5 Days After Diagnosis						
Hospitalization						
2016						
July	0.00		159	37.13	579.23	
August	0.00		153	30.26	471.20	
September	0.00		243	27.87	432.92	
October	0.00		324	27.05	420.45	
November	0.00		354	24.05	373.06	
December	0.00		718	22.61	361.09	
2017						
January	0.00		1,454	20.71	320.84	
February	0.00		1,997	17.56	271.85	
March	0.00		1,558	17.27	266.94	
April	0.00		692	19.87	307.47	
May	0.00		306	23.79	369.39	
June	0.00		111	19.88	542.79	

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, 2016 and June 30, 2017 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 ¹
BiPAP						
<i>2016</i>						
July	0.00		****	****	****	
August	0.00		****	****	****	
September	0.00		23	2.47	37.89	
October	0.00		33	2.56	39.26	
November	0.00		41	2.57	39.38	
December	0.00		83	2.33	36.81	
<i>2017</i>						
January	0.00		149	1.88	28.84	
February	0.00		270	2.13	32.81	
March	0.00		205	2.07	31.77	
April	0.00		115	2.99	45.94	
May	0.00		****	****	****	
June	0.00		****	****	****	
Supplemental oxygen						
<i>2016</i>						
July	0.00		57	12.65	194.94	
August	0.00		84	15.97	246.70	
September	0.00		136	15.11	233.40	
October	0.00		176	14.20	219.34	
November	0.00		254	16.64	257.55	
December	0.00		520	15.56	247.67	

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, 2016 and June 30, 2017 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 ¹
2017						
January	0.00		1,192	15.96	247.44	
February	0.00		1,832	15.35	238.06	
March	0.00		1,334	14.26	220.61	
April	0.00		584	16.14	249.85	
May	0.00		194	14.63	226.13	
June	0.00		66	11.41	310.44	
Mechanical ventilation						
2016						
July	0.00		23	4.96	76.06	
August	0.00		26	4.80	73.68	
September	0.00		29	3.13	48.05	
October	0.00		49	3.83	58.75	
November	0.00		55	3.48	53.34	
December	0.00		129	3.67	57.97	
2017						
January	0.00		270	3.45	53.01	
February	0.00		351	2.81	43.13	
March	0.00		280	2.86	43.84	
April	0.00		143	3.76	57.72	
May	0.00		55	3.97	60.91	
June	0.00		15	2.50	67.36	

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, 2016 and June 30, 2017 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 ¹
Critical Care						
<i>2016</i>						
July	0.00		145	34.32	534.46	
August	0.00		128	25.64	398.01	
September	0.00		209	24.07	373.08	
October	0.00		270	22.60	350.29	
November	0.00		302	20.55	318.00	
December	0.00		613	19.29	307.22	
<i>2017</i>						
January	0.00		1,200	17.07	263.82	
February	0.00		1,741	15.25	235.72	
March	0.00		1,349	14.94	230.72	
April	0.00		593	17.05	263.24	
May	0.00		274	21.43	332.20	
June	0.00		97	17.60	479.49	
ECMO						
<i>2016</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, 2016 and June 30, 2017 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 ¹
2017						
January	0.00		0	0.00	0.00	
February	0.00		*****	*****	*****	
March	0.00		*****	*****	*****	
April	0.00		0	0.00	0.00	
May	0.00		0	0.00	0.00	
June	0.00		0	0.00	0.00	
Death						
2016						
July	0.00		50	10.74	164.91	
August	0.00		57	10.49	161.24	
September	0.00		71	7.64	117.16	
October	0.00		121	9.40	144.36	
November	0.00		151	9.47	145.44	
December	0.00		431	12.16	192.31	
2017						
January	0.00		1,088	13.77	212.07	
February	0.00		1,416	11.23	172.91	
March	0.00		988	10.01	153.88	
April	0.00		392	10.24	157.28	
May	0.00		144	10.35	159.13	
June	0.00		39	6.45	174.65	

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, 2016 and June 30, 2017 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 ¹
Discharge from hospital alive						
<i>2016</i>						
July	0.00		150	34.86	544.07	
August	0.00		149	29.32	456.77	
September	0.00		227	25.93	402.63	
October	0.00		303	25.17	391.22	
November	0.00		335	22.62	350.93	
December	0.00		651	20.36	325.13	
<i>2017</i>						
January	0.00		1,349	19.08	295.76	
February	0.00		1,876	16.39	254.09	
March	0.00		1,453	16.01	247.67	
April	0.00		652	18.61	288.14	
May	0.00		290	22.46	348.64	
June	0.00		109	19.43	530.16	
ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis						
Hospitalization						
<i>2016</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, 2016 and June 30, 2017 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 ¹
2017						
January						
February						
March						
April						
May						
June						
BiPAP						
2016						
July						
August						
September						
October						
November						
December						
2017						
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, 2016 and June 30, 2017 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 ¹
Supplemental oxygen						
<i>2016</i>						
July						
August						
September						
October						
November						
December						
<i>2017</i>						
January						
February						
March						
April						
May						
June						
Mechanical ventilation						
<i>2016</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, 2016 and June 30, 2017 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 ¹
2017						
January						
February						
March						
April						
May						
June						
Critical Care						
2016						
July						
August						
September						
October						
November						
December						
2017						
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, 2016 and June 30, 2017 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 ¹
ECMO						
<i>2016</i>						
July						
August						
September						
October						
November						
December						
<i>2017</i>						
January						
February						
March						
April						
May						
June						
Death						
<i>2016</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, 2016 and June 30, 2017 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 ¹
2017						
January						
February						
March						
April						
May						
June						
Discharge from hospital alive						
2016						
July						
August						
September						
October						
November						
December						
2017						
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, 2016 and June 30, 2017 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 ¹
ILI - Excluded: Outcome and Treatment, on Day of Diagnosis						
Hospitalization						
<i>2016</i>						
July						
August						
September						
October						
November						
December						
<i>2017</i>						
January						
February						
March						
April						
May						
June						
BiPAP						
<i>2016</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, 2016 and June 30, 2017 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 ¹
2017						
January						
February						
March						
April						
May						
June						
Supplemental oxygen						
2016						
July						
August						
September						
October						
November						
December						
2017						
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, 2016 and June 30, 2017 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 ¹
Mechanical ventilation						
<i>2016</i>						
July						
August						
September						
October						
November						
December						
<i>2017</i>						
January						
February						
March						
April						
May						
June						
Critical Care						
<i>2016</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, 2016 and June 30, 2017 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 ¹
2017						
January						
February						
March						
April						
May						
June						
ECMO						
2016						
July						
August						
September						
October						
November						
December						
2017						
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, 2016 and June 30, 2017 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 ¹
Death						
<i>2016</i>						
July						
August						
September						
October						
November						
December						
<i>2017</i>						
January						
February						
March						
April						
May						
June						
Discharge from hospital alive						
<i>2016</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, 2016 and June 30, 2017 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 ¹
2017						
January						
February						
March						
April						
May						
June						
ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis						
Hospitalization						
2016						
July						
August						
September						
October						
November						
December						
2017						
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, 2016 and June 30, 2017 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 ¹
BiPAP						
<i>2016</i>						
July						
August						
September						
October						
November						
December						
<i>2017</i>						
January						
February						
March						
April						
May						
June						
Supplemental oxygen						
<i>2016</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, 2016 and June 30, 2017 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 ¹
2017						
January						
February						
March						
April						
May						
June						
Mechanical ventilation						
2016						
July						
August						
September						
October						
November						
December						
2017						
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, 2016 and June 30, 2017 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 ¹
Critical Care						
<i>2016</i>						
July						
August						
September						
October						
November						
December						
<i>2017</i>						
January						
February						
March						
April						
May						
June						
ECMO						
<i>2016</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, 2016 and June 30, 2017 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 ¹
2017						
January						
February						
March						
April						
May						
June						
Death						
2016						
July						
August						
September						
October						
November						
December						
2017						
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, 2016 and June 30, 2017 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 ¹
Discharge from hospital alive						
<i>2016</i>						
July						
August						
September						
October						
November						
December						
<i>2017</i>						
January						
February						
March						
April						
May						
June						

¹Eligible 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, 2017)

DP ID	Start Date¹	End Date¹
DP01	1/1/2000	6/30/2017
DP02	1/1/2000	6/30/2017
DP03	1/1/2008	6/30/2017
DP04	1/1/2000	6/30/2017
DP05	1/1/2006	6/30/2017
DP06	1/1/2008	6/30/2017
DP07	1/1/2000	6/30/2017
DP08	6/1/2007	6/30/2017
DP09	1/1/2004	6/30/2017
DP10	1/1/2000	6/30/2017
DP11	6/1/2007	6/30/2017
DP12	1/1/2000	6/30/2017
DP13	1/1/2010	6/30/2017

¹The 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
Influenza-Like Illness (ILI)¹			
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

Code	Description	Code Category	Code Type
BIPHASIC POSITIVE AIRWAY PRESSURE (BiPAP)			
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
SUPPLEMENTAL OXYGEN			
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
MECHANICAL VENTILATION			
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

Code	Description	Code Category	Code Type
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
0WHQ73	Insertion of Infusion Device into Respiratory Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0WHQ7Y	Insertion of Other Device into Respiratory Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

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Code	Description	Code Category	Code Type
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
CRITICAL OR OBSERVATIONAL CARE			
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

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Code	Description	Code Category	Code Type
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

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Code	Description	Code Category	Code Type
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
EXTRACORPOREAL MEMBRANE OXYGENATION (ECMO)			
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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Code	Description	Code Category	Code Type
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

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
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

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

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

Code	Description	Code	Code Type
Category	Peramivir		Code Type
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
Influenza Vaccination	
Influenza Season July 1, 2014 - June 30, 2015	
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)
Influenza Season July 1, 2015 - June 30, 2016	
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 qvalsplit 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
Influenza Season July 1, 2015 - June 30, 2016	
influenza virus vaccine qvsplit 2016-2017(6 mos and older)	Flulaval Quad 2016-2017
influenza virus vaccine qvsplit 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 qvsplit 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
Pneumococcal Vaccination	
pneumococcal 7-valent conjugate vaccine (diphtheria crm)/PF	Prevnar (PF)
pneumococcal 23-valent polysaccharide vaccine	Pneumovax 23
pneumococcal 13-valent conjugate vaccine (Diphtheria crm)/PF	Prevnar 13 (PF)

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

Code	Description	Code Category	Code Type
INFLUENZA TESTING			
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
ASTHMA			
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

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

Code	Description	Code Category	Code Type
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
CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)			
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

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

Code	Description	Code	
		Category	Code Type
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
DIABETES			
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

Code	Description	Code Category	Code Type
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

Code	Description	Code Category	Code Type
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

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Code	Description	Code Category	Code Type
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

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Code	Description	Code Category	Code Type
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

Code	Description	Code Category	Code Type
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

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Code	Description	Code Category	Code Type
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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Code	Description	Code Category	Code Type
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

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

Code	Description	Code Category	Code Type
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

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Code	Description	Code Category	Code Type
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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Code	Description	Code Category	Code Type
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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Code	Description	Code Category	Code Type
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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Code	Description	Code Category	Code Type
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
OBESITY			
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

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

Code	Description	Code Category	Code Type
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

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

Code	Description	Code Category	Code Type
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 (biliopancreatic	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

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

Code	Description	Code Category	Code Type
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

Code	Description	Code Category	Code Type
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

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Code	Description	Code Category	Code Type
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

Code	Description	Code Category	Code Type
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

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Code	Description	Code Category	Code Type
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
INFLUENZA VACCINATION			
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

Code	Description	Code Category	Code Type
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 (cclIV3), 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 (cclIV4), 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 (cclIV4), 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

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

Code	Description	Code	
		Category	Code Type
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
PNEUMOCOCCAL VACCINATION			
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				Outcome				
	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
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 Partner (DP) end date; *Query end date;	Treatment	Exclusion	(-10,-1)	*N/A for National Drug Codes (NDCs) For Procedures (PXs): *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

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					Outcome			
	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
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
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

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					Outcome			
	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
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
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

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					Outcome			
	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
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).

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					Outcome			
	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
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

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					Outcome			
	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
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
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

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
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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					Outcome			
	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
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
19	Medically Attended Acute Respiratory Illness (MAARI) #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	---

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					Outcome			
	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
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
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

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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MFU output: Requested
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Scenario	Exposure					Inclusion/Exclusion					Outcome			
	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
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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MFU output: Requested
Distribution of index output: No

Scenario	Exposure					Inclusion/Exclusion					Outcome			
	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
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

Condition	Care setting	Evaluation period start	Evaluation period end
User-Defined			
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
Automatic			
Sex	---	---	---
Age	---	---	---
Race/ethnicity	---	---	---
Healthcare utilization	---	-183	0
Combined prior comorbidity score	---	-183	0

Appendix J. Diagram Detailing the Design of the Request

