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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 1 of 6

Request ID: ocet_ahr_wp001_ahr_wp001

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

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

Data Source: We distributed this request to 13 Sentinel Data Partners (DPs) on October 7, 2019. The study period included data from July 1, 2014 through June 30, 2015. 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 1 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 also assessed influenza vaccination on only the date of index diagnosis. 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 name medical products 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@sentinel-system.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.sentinel-system.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 1, 2014 and June 30, 2015

Characteristic¹	Number	
Number of episodes	527,725	
Number of unique patients	524,602	
Demographics	Mean	Standard Deviation
Mean Age (Years)	40	19.1
Age (Years)	Number	Percent
6 Months - 4	42,467	8.0%
5-17	127,553	24.2%
18-49	151,413	28.7%
50-64	69,141	13.1%
65+	137,151	26.0%
Sex		
Female	288,518	55.0%
Male	*****	*****
Other	*****	*****
Year		
2014	237,913	45.1%
2015	289,812	54.9%
Recorded history of:	Number	Percent
Day 0		
Influenza vaccination	3,255	0.6%
Day -7 to Day 7		
Influenza Testing	375,713	71.2%
Day -183 to Day 0	Mean	Standard Deviation
Prior combined comorbidity raw score	0.4	1.3
	Number	Percent
Influenza vaccination	185,157	35.1%
Asthma	48,264	9.1%
Chronic obstructive pulmonary disease	24,086	4.6%
Diabetes	62,036	11.8%
Obesity	33,367	6.3%
Enrollment History to Day 0		
Pneumococcal vaccination	130,089	24.7%
Health Service Utilization Intensity:	Mean	Standard Deviation
Mean number of ambulatory encounters (AV)	7.4	8.5
Mean number of emergency room encounters (ED)	0.3	0.8
Mean number of inpatient hospital encounters (IP)	0	0.3
Mean number of non-acute institutional encounters (IS)	0	0.2
Mean number of other ambulatory encounters (OA)	1.5	4.8
Mean number of unique drug classes	5.7	3.8
Mean number of generics	6	4.2
Mean number of filled prescriptions	12.3	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 1, 2014 and June 30, 2015

Characteristic¹	Number	
Number of episodes	44,133	
Number of unique patients	44,108	
Demographics	Mean	Standard Deviation
Mean Age (Years)	50.8	18.8
Age (Years)	Number	Percent
6 Months - 4	2,866	6.5%
5-17	6,594	14.9%
18-49	9,769	22.1%
50-64	5,792	13.1%
65+	19,112	43.3%
Sex		
Female	25,418	57.6%
Male	*****	*****
Other	*****	*****
Year		
2014	20,691	46.9%
2015	23,442	53.1%
Recorded history of:	Number	Percent
Day 0		
Influenza vaccination	183	0.4%
Day -7 to Day 7		
Influenza Testing	31,680	71.8%
Day -183 to Day 0	Mean	Standard Deviation
Prior combined comorbidity raw score	1.3	2
	Number	Percent
Influenza vaccination	16,678	37.8%
Asthma	5,781	13.1%
Chronic obstructive pulmonary disease	5,677	12.9%
Diabetes	10,221	23.2%
Obesity	4,624	10.5%
Enrollment History to Day 0		
Pneumococcal vaccination	13,889	31.5%
Health Service Utilization Intensity:	Mean	Standard Deviation
Mean number of ambulatory encounters (AV)	10.2	13.2
Mean number of emergency room encounters (ED)	1.1	1.7
Mean number of inpatient hospital encounters (IP)	0.2	0.6
Mean number of non-acute institutional encounters (IS)	0.1	0.4
Mean number of other ambulatory encounters (OA)	3.8	9.1
Mean number of unique drug classes	6.3	4.5
Mean number of generics	6.8	5
Mean number of filled prescriptions	18.8	19.6

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 1, 2014 and June 30, 2015

Characteristic¹	Number	
Number of episodes	76,549	
Number of unique patients	76,473	
Demographics	Mean	Standard Deviation
Mean Age (Years)	58.7	18.1
Age (Years)	Number	Percent
6 Months - 4	3,371	4.4%
5-17	7,832	10.2%
18-49	12,768	16.7%
50-64	9,689	12.7%
65+	42,889	56.0%
Sex		
Female	44,162	57.7%
Male	*****	*****
Other	*****	*****
Year		
2014	35,241	46.0%
2015	41,308	54.0%
Recorded history of:	Number	Percent
Day 0		
Influenza vaccination	416	0.5%
Day -7 to Day 7		
Influenza Testing	43,176	56.4%
Day -183 to Day 0	Mean	Standard Deviation
Prior combined comorbidity raw score	1.9	2.4
	Number	Percent
Influenza vaccination	33,144	43.3%
Asthma	11,808	15.4%
Chronic obstructive pulmonary disease	15,896	20.8%
Diabetes	22,157	28.9%
Obesity	9,856	12.9%
Enrollment History to Day 0		
Pneumococcal vaccination	26,106	34.1%
Health Service Utilization Intensity:	Mean	Standard Deviation
Mean number of ambulatory encounters (AV)	12	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	0.5
Mean number of other ambulatory encounters (OA)	4.9	10.2
Mean number of unique drug classes	7.4	4.8
Mean number of generics	7.9	5.3
Mean number of filled prescriptions	22.3	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 1, 2014 and June 30, 2015

Characteristic¹	Number	
Number of episodes	486,059	
Number of unique patients	471,926	
Demographics	Mean	Standard Deviation
Mean Age (Years)	47.4	19.7
Age (Years)	Number	Percent
6 Months - 4	32,287	6.6%
5-17	86,872	17.9%
18-49	120,865	24.9%
50-64	67,863	14.0%
65+	178,172	36.7%
Sex		
Female	270,909	57.4%
Male	*****	*****
Other	*****	*****
Year		
2014	200,449	41.2%
2015	285,610	58.8%
Recorded history of:	Number	Percent
Day 0		
Influenza vaccination	6,940	1.4%
Day -7 to Day 7		
Influenza Testing	227,819	46.9%
Day -183 to Day 0	Mean	Standard Deviation
Prior combined comorbidity raw score	1.3	2.3
	Number	Percent
Influenza vaccination	162,707	33.5%
Asthma	56,731	11.7%
Chronic obstructive pulmonary disease	64,003	13.2%
Diabetes	93,966	19.3%
Obesity	45,403	9.3%
Enrollment History to Day 0		
Pneumococcal vaccination	125,476	25.8%
Health Service Utilization Intensity:	Mean	Standard Deviation
Mean number of ambulatory encounters (AV)	9.5	12.3
Mean number of emergency room encounters (ED)	0.5	1.5
Mean number of inpatient hospital encounters (IP)	0.3	0.8
Mean number of non-acute institutional encounters (IS)	0.1	0.6
Mean number of other ambulatory encounters (OA)	4.4	10.8
Mean number of unique drug classes	5.5	4.4
Mean number of generics	5.9	4.9
Mean number of filled prescriptions	15.4	18.1

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, 2014 and June 30, 2015, Overall

	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
ILI					
Total	1,070,235	70,084,635	1,096,065	0.0	0.57
Treated Day of Diagnosis	524,602		527,725	41,074.9	1.01
Treated Day After Diagnosis	44,108		44,133	3,325.6	1.00
Treated 1-5 Days After Diagnosis	76,473		76,549	5,617.2	1.00
NOT Treated 0-5 Days After Diagnosis	471,926		486,059	31,249.9	0.00
ILI - Treated Day of Diagnosis					
Hospitalization	523,837		526,955	40,530.4	1.01
Bilevel Positive Airway Pressure (BiPAP)	524,562		527,684	41,027.9	1.01
Supplemental oxygen	510,534		513,523	39,617.1	1.01
Mechanical ventilation	524,545		527,667	41,038.9	1.01
Critical Care	523,842		526,962	40,640.4	1.01
Extracorporeal membrane oxygenation (ECMO)	524,602		527,725	41,074.7	1.01
Death	524,592		527,715	41,051.8	1.01
Discharge from hospital alive	523,862		526,980	40,547.5	1.01
ILI - Treated Day After Diagnosis					
Hospitalization	42,297		42,321	3,095.9	1.00
BiPAP	44,103		44,128	3,322.5	1.00
Supplemental oxygen	39,088		39,106	2,901.1	1.00
Mechanical ventilation	44,061		44,086	3,314.7	1.00
Critical Care	42,145		42,169	3,104.0	1.00
ECMO	44,108		44,133	3,325.6	1.00
Death	44,101		44,126	3,317.3	1.00
Discharge from hospital alive	42,348		42,372	3,104.4	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, 2014 and June 30, 2015, Overall

	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
ILI - Treated 1-5 Days After Diagnosis					
Hospitalization	56,242		56,287	4,051.6	1.00
BiPAP	76,452		76,528	5,610.7	1.00
Supplemental oxygen	66,723		66,778	4,816.8	1.00
Mechanical ventilation	75,983		76,058	5,566.9	1.00
Critical Care	59,512		59,560	4,301.8	1.00
ECMO	76,473		76,549	5,617.2	1.00
Death	76,461		76,537	5,599.1	1.00
Discharge from hospital alive	56,701		56,746	4,088.3	1.00
ILI - NOT Treated 0-5 Days After Diagnosis					
Hospitalization	422,246		433,966	27,585.9	0.00
BiPAP	471,697		485,813	31,206.4	0.00
Supplemental oxygen	447,347		460,485	29,349.4	0.00
Mechanical ventilation	466,264		480,107	30,830.5	0.00
Critical Care	422,831		434,571	27,687.9	0.00
ECMO	471,909		486,041	31,248.6	0.00
Death	469,573		483,646	30,986.4	0.00
Discharge from hospital alive	425,264		437,036	27,759.1	0.00
ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis					
Hospitalization	72,119		72,563		
BiPAP	263		266		
Supplemental oxygen	35,160		35,334		
Mechanical ventilation	6,509		6,531		
Critical Care	68,070		68,648		
ECMO	19		19		
Death	2,778		2,778		
Discharge from hospital alive	68,460		68,873		

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, 2014 and June 30, 2015, 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	769		770		
BiPAP	41		41		
Supplemental oxygen	14,206		14,220		
Mechanical ventilation	57		58		
Critical Care	762		763		
ECMO	0		0		
Death	*****		*****		
Discharge from hospital alive	744		745		
ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis					
Hospitalization	355		355		
BiPAP	*****		*****		
Supplemental oxygen	286		286		
Mechanical ventilation	26		26		
Critical Care	488		488		
ECMO	0		0		
Death	*****		*****		
Discharge from hospital alive	319		319		

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, 2014 and June 30, 2015, 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	2.96	5.24				58,315,655.1
Treated Day of Diagnosis	5.34	5.31				
Treated Day After Diagnosis	5.28	5.27				
Treated 1-5 Days After Diagnosis	4.80	4.79				
NOT Treated 0-5 Days After Diagnosis	0.00					
ILI - Treated Day of Diagnosis						
Hospitalization	5.34	5.31	9,307	17.66	229.63	
Bilevel Positive Airway Pressure (BiPAP)	5.34	5.31	1,142	2.16	27.83	
Supplemental oxygen	5.35	5.31	6,598	12.85	166.54	
Mechanical ventilation	5.34	5.31	622	1.18	15.16	
Critical Care	5.34	5.31	7,121	13.51	175.22	
Extracorporeal membrane oxygenation (ECMO)	5.34	5.31	*****	*****	*****	
Death	5.34	5.31	785	1.49	19.12	
Discharge from hospital alive	5.34	5.31	8,962	17.01	221.02	
ILI - Treated Day After Diagnosis						
Hospitalization	5.30	5.29	1,851	43.74	597.89	
BiPAP	5.28	5.27	76	1.72	22.87	
Supplemental oxygen	5.30	5.29	858	21.94	295.75	
Mechanical ventilation	5.28	5.27	148	3.36	44.65	
Critical Care	5.30	5.29	1,455	34.50	468.75	
ECMO	5.28	5.27	0	0.00	0.00	
Death	5.28	5.27	279	6.32	84.10	
Discharge from hospital alive	5.30	5.29	1,749	41.28	563.39	

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, 2014 and June 30, 2015, 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	5.19	5.17	2,716	48.25	670.35	
BiPAP	4.80	4.79	136	1.78	24.24	
Supplemental oxygen	4.83	4.82	1,727	25.86	358.54	
Mechanical ventilation	4.81	4.79	349	4.59	62.69	
Critical Care	5.09	5.08	2,332	39.15	542.10	
ECMO	4.80	4.79	0	0.00	0.00	
Death	4.80	4.79	625	8.17	111.63	
Discharge from hospital alive	5.18	5.16	2,605	45.91	637.18	
ILI - NOT Treated 0-5 Days After Diagnosis						
Hospitalization	0.00		9,836	22.67	356.56	
BiPAP	0.00		871	1.79	27.91	
Supplemental oxygen	0.00		6,654	14.45	226.72	
Mechanical ventilation	0.00		1,799	3.75	58.35	
Critical Care	0.00		8,370	19.26	302.30	
ECMO	0.00		*****	*****	*****	
Death	0.00		6,292	13.01	203.06	
Discharge from hospital alive	0.00		9,277	21.23	334.20	
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, 2014 and June 30, 2015, 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, 2014 and June 30, 2015 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	602,075	37,378,871	617,200	0.0	0.56	2.91	5.22				31,336,537.2
Male	468,139	32,703,706	478,844	0.0	0.58	3.03	5.25				26,977,495.4
Other	21	2,058	21	0.0	0.67	3.29	4.93				1,622.5
Treated Day of Diagnosis											
Female	288,518		290,185	22,587.8	1.01	5.33	5.29				
Male	*****		*****	18,486.4	1.01	5.36	5.32				
Other	*****		*****	0.8	1.00	5.50	5.50				
Treated Day After Diagnosis											
Female	25,418		25,432	1,914.3	1.00	5.28	5.26				
Male	*****		*****	1,411.2	1.00	5.29	5.28				
Other	*****		*****	0.1	1.00	5.00	5.00				
Treated 1-5 Days After Diagnosis											
Female	44,162		44,199	3,240.1	1.00	4.81	4.80				
Male	*****		*****	2,376.8	1.00	4.79	4.78				
Other	*****		*****	0.3	1.00	3.50	3.50				
NOT Treated 0-5 Days After Diagnosis											
Female	270,909		279,417	17,965.9	0.00	0.00					
Male	*****		*****	13,283.6	0.00	0.00					
Other	*****		*****	0.4	0.00	0.00					
ILI - Treated Day of Diagnosis											
Hospitalization											
Female	288,083		289,746	22,255.9	1.01	5.33	5.29	5,722	19.75	257.10	
Male	*****		*****	18,273.8	1.01	5.36	5.32	3,585	15.11	196.18	
Other	*****		*****	0.8	1.00	5.50	5.50	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, 2014 and June 30, 2015 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	288,506		290,173	22,569.8	1.01	5.33	5.29	435	1.50	19.27	
Male	*****		*****	18,457.3	1.01	5.36	5.32	707	2.98	38.30	
Other	*****		*****	0.8	1.00	5.50	5.50	0	0.00	0.00	
Supplemental oxygen											
Female	280,253		281,848	21,720.9	1.01	5.33	5.30	4,057	14.39	186.78	
Male	*****		*****	17,895.4	1.01	5.36	5.32	2,541	10.97	141.99	
Other	*****		*****	0.8	1.00	5.50	5.50	0	0.00	0.00	
Mechanical ventilation											
Female	288,483		290,149	22,568.3	1.01	5.33	5.29	329	1.13	14.58	
Male	*****		*****	18,469.9	1.01	5.36	5.32	293	1.23	15.86	
Other	*****		*****	0.8	1.00	5.50	5.50	0	0.00	0.00	
Critical Care											
Female	288,103		289,767	22,333.3	1.01	5.33	5.29	4,204	14.51	188.24	
Male	*****		*****	18,306.4	1.01	5.36	5.32	2,917	12.30	159.34	
Other	*****		*****	0.8	1.00	5.50	5.50	0	0.00	0.00	
Extracorporeal membrane oxygenation (ECMO)											
Female	288,518		290,185	22,587.8	1.01	5.33	5.29	0	0.00	0.00	
Male	*****		*****	18,486.1	1.01	5.36	5.32	*****	*****	*****	
Other	*****		*****	0.8	1.00	5.50	5.50	0	0.00	0.00	
Death											
Female	288,514		290,181	22,573.1	1.01	5.33	5.29	494	1.70	21.88	
Male	*****		*****	18,477.9	1.01	5.36	5.32	291	1.23	15.75	
Other	*****		*****	0.8	1.00	5.50	5.50	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, 2014 and June 30, 2015 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	288,101		289,764	22,265.2	1.01	5.33	5.29	5,539	19.12	248.77	
Male	*****		*****	18,281.5	1.01	5.36	5.32	3,423	14.43	187.24	
Other	*****		*****	0.8	1.00	5.50	5.50	0	0.00	0.00	
ILI - Treated Day After Diagnosis											
Hospitalization											
Female	24,483		24,497	1,786.3	1.00	5.29	5.28	1,136	46.37	635.95	
Male	*****		*****	1,309.5	1.00	5.31	5.30	715	40.12	546.01	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
BiPAP											
Female	25,414		25,428	1,913.3	1.00	5.28	5.26	25	0.98	13.07	
Male	*****		*****	1,409.2	1.00	5.29	5.28	51	2.73	36.19	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
Supplemental oxygen											
Female	22,412		22,423	1,659.5	1.00	5.30	5.29	530	23.64	319.37	
Male	*****		*****	1,241.6	1.00	5.30	5.29	328	19.66	264.18	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
Mechanical ventilation											
Female	25,399		25,413	1,908.6	1.00	5.28	5.26	86	3.38	45.06	
Male	*****		*****	1,406.0	1.00	5.29	5.28	62	3.32	44.10	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
Critical Care											
Female	24,409		24,423	1,794.5	1.00	5.29	5.28	867	35.50	483.14	
Male	*****		*****	1,309.4	1.00	5.31	5.30	588	33.14	449.06	
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, 2014 and June 30, 2015 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	25,418		25,432	1,914.3	1.00	5.28	5.26	0	0.00	0.00	
Male	*****		*****	1,411.2	1.00	5.29	5.28	0	0.00	0.00	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
Death											
Female	25,411		25,425	1,908.6	1.00	5.28	5.26	193	7.59	101.12	
Male	*****		*****	1,408.6	1.00	5.29	5.28	86	4.60	61.05	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
Discharge from hospital alive											
Female	24,513		24,527	1,791.2	1.00	5.29	5.28	1,072	43.71	598.48	
Male	*****		*****	1,313.1	1.00	5.31	5.30	677	37.94	515.57	
Other	*****		*****	0.1	1.00	5.00	5.00	0	0.00	0.00	
ILI - Treated 1-5 Days After Diagnosis											
Hospitalization											
Female	32,750		32,775	2,353.3	1.00	5.19	5.18	1,654	50.47	702.84	
Male	*****		*****	1,698.2	1.00	5.19	5.17	1,062	45.17	625.37	
Other	*****		*****	0.1	1.00	4.50	4.50	0	0.00	0.00	
BiPAP											
Female	44,151		44,188	3,237.4	1.00	4.81	4.80	54	1.22	16.68	
Male	*****		*****	2,373.0	1.00	4.79	4.78	82	2.54	34.56	
Other	*****		*****	0.3	1.00	3.50	3.50	0	0.00	0.00	
Supplemental oxygen											
Female	38,228		38,259	2,754.5	1.00	4.84	4.83	1,032	26.97	374.66	
Male	*****		*****	2,062.1	1.00	4.81	4.80	695	24.37	337.04	
Other	*****		*****	0.3	1.00	3.50	3.50	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, 2014 and June 30, 2015 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	43,913		43,950	3,213.7	1.00	4.81	4.80	197	4.48	61.30	
Male	*****		*****	2,352.9	1.00	4.80	4.79	152	4.73	64.60	
Other	*****		*****	0.3	1.00	3.50	3.50	0	0.00	0.00	
Critical Care											
Female	34,786		34,813	2,510.0	1.00	5.08	5.07	1,389	39.90	553.39	
Male	*****		*****	1,791.7	1.00	5.10	5.09	943	38.11	526.32	
Other	*****		*****	0.1	1.00	4.50	4.50	0	0.00	0.00	
ECMO											
Female	44,162		44,199	3,240.1	1.00	4.81	4.80	0	0.00	0.00	
Male	*****		*****	2,376.8	1.00	4.79	4.78	0	0.00	0.00	
Other	*****		*****	0.3	1.00	3.50	3.50	0	0.00	0.00	
Death											
Female	44,151		44,188	3,228.3	1.00	4.81	4.80	408	9.23	126.38	
Male	*****		*****	2,370.5	1.00	4.79	4.78	217	6.71	91.54	
Other	*****		*****	0.3	1.00	3.50	3.50	0	0.00	0.00	
Discharge from hospital alive											
Female	33,002		33,027	2,373.5	1.00	5.18	5.16	1,581	47.87	666.10	
Male	*****		*****	1,714.7	1.00	5.17	5.16	1,024	43.18	597.19	
Other	*****		*****	0.1	1.00	4.50	4.50	0	0.00	0.00	
ILI - NOT Treated 0-5 Days After Diagnosis											
Hospitalization											
Female	240,931		247,947	15,752.4	0.00	0.00		5,936	23.94	376.83	
Male	*****		*****	11,833.1	0.00	0.00		3,900	20.97	329.58	
Other	*****		*****	0.4	0.00	0.00		0	0.00	0.00	

Table 3. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2014 and June 30, 2015 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 per 1,000 New Diagnoses	New Diagnoses with Outcome per 1,000 Years at Risk	Eligible Member Years ¹
BiPAP											
Female	270,801		279,300	17,947.3	0.00	0.00		355	1.27	19.78	
Male	*****		*****	13,258.7	0.00	0.00		516	2.50	38.92	
Other	*****		*****	0.4	0.00	0.00		0	0.00	0.00	
Supplemental oxygen											
Female	255,858		263,739	16,794.5	0.00	0.00		4,165	15.79	248.00	
Male	*****		*****	12,554.5	0.00	0.00		2,489	12.65	198.26	
Other	*****		*****	0.4	0.00	0.00		0	0.00	0.00	
Mechanical ventilation											
Female	267,649		275,991	17,726.0	0.00	0.00		993	3.60	56.02	
Male	*****		*****	13,104.1	0.00	0.00		806	3.95	61.51	
Other	*****		*****	0.4	0.00	0.00		0	0.00	0.00	
Critical Care											
Female	242,069		249,128	15,867.1	0.00	0.00		4,982	20.00	313.98	
Male	*****		*****	11,820.3	0.00	0.00		3,388	18.27	286.63	
Other	*****		*****	0.4	0.00	0.00		0	0.00	0.00	
ECMO											
Female	*****		*****	17,965.2	0.00	0.00		*****	*****	*****	
Male	*****		*****	13,283.0	0.00	0.00		*****	*****	*****	
Other	*****		*****	0.4	0.00	0.00		0	0.00	0.00	
Death											
Female	269,518		277,991	17,811.3	0.00	0.00		3,615	13.00	202.96	
Male	*****		*****	13,174.7	0.00	0.00		2,677	13.02	203.19	
Other	*****		*****	0.4	0.00	0.00		0	0.00	0.00	

Table 3. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2014 and June 30, 2015 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	242,716		249,756	15,852.7	0.00	0.00	-	5,621	22.51	354.58	
Male	*****		*****	11,906.0	0.00	0.00	-	3,656	19.52	307.07	
Other	*****		*****	0.4	0.00	0.00	-	0	0.00	0.00	
ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis											
Hospitalization											
Female	42,789										
Male	*****										
Other	*****										
BiPAP											
Female	125										
Male	138										
Other	0										
Supplemental oxygen											
Female	21,497										
Male	13,663										
Other	0										
Mechanical ventilation											
Female	3,707										
Male	2,802										
Other	0										
Critical Care											
Female	39,505										
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, 2014 and June 30, 2015 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	*****										
Male	*****										
Other	0										
Death											
Female	1,643										
Male	1,135										
Other	0										
Discharge from hospital alive											
Female	40,641										
Male	*****										
Other	*****										
ILI - Excluded: Outcome and Treatment, on Day of Diagnosis											
Hospitalization											
Female	438										
Male	331										
Other	0										
BiPAP											
Female	12										
Male	29										
Other	0										
Supplemental oxygen											
Female	8,339										
Male	5,867										
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, 2014 and June 30, 2015 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	35										
Male	22										
Other	0										
Critical Care											
Female	417										
Male	345										
Other	0										
ECMO											
Female	0										
Male	0										
Other	0										
Death											
Female	****										
Male	****										
Other	0										
Discharge from hospital alive											
Female	420										
Male	324										
Other	0										
ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis											
Hospitalization											
Female	189										
Male	166										
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, 2014 and June 30, 2015 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	174										
Male	112										
Other	0										
Mechanical ventilation											
Female	13										
Male	13										
Other	0										
Critical Care											
Female	261										
Male	227										
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, 2014 and June 30, 2015 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	168										
Male	151										
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, 2014 and June 30, 2015 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	76,258	2,419,819	78,513	0.0	0.60
5-17	218,678	7,391,226	222,902	0.0	0.62
18-49	282,357	23,462,750	286,731	0.0	0.58
50-64	144,342	13,496,671	147,566	0.0	0.55
65+	348,817	25,345,931	360,353	0.0	0.52
Treated Day of Diagnosis					
6 Months - 4	41,942		42,467	3,302.8	1.01
5-17	126,415		127,553	9,913.2	1.01
18-49	150,746		151,413	11,738.6	1.00
50-64	68,858		69,141	5,376.3	1.00
65+	136,684		137,151	10,744.0	1.00
Treated Day After Diagnosis					
6 Months - 4	2,864		2,866	216.0	1.00
5-17	6,591		6,594	496.3	1.01
18-49	9,758		9,769	735.0	1.00
50-64	5,789		5,792	436.8	1.00
65+	19,106		19,112	1,441.6	1.00
Treated 1-5 Days After Diagnosis					
6 Months - 4	3,369		3,371	251.8	1.00
5-17	7,826		7,832	584.0	1.01
18-49	12,753		12,768	946.9	1.00
50-64	9,677		9,689	712.6	1.00
65+	42,849		42,889	3,122.0	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, 2014 and June 30, 2015 by Age Group

Age Group (Years)	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
NOT Treated 0-5 Days After Diagnosis					
6 Months - 4	31,358		32,287	2,080.3	0.00
5-17	85,518		86,872	5,584.1	0.00
18-49	118,852		120,865	7,782.8	0.00
50-64	65,944		67,863	4,379.2	0.00
65+	170,349		178,172	11,423.4	0.00
ILI - Treated Day of Diagnosis					
Hospitalization					
6 Months - 4	41,937		42,462	3,290.2	1.01
5-17	126,404		127,541	9,900.3	1.01
18-49	150,709		151,376	11,673.9	1.00
50-64	68,766		69,048	5,304.6	1.00
65+	136,064		136,528	10,361.4	1.00
Bilevel Positive Airway Pressure (BiPAP)					
6 Months - 4	41,942		42,467	3,302.7	1.01
5-17	126,413		127,551	9,912.9	1.01
18-49	150,731		151,397	11,723.0	1.00
50-64	68,840		69,123	5,356.7	1.00
65+	136,679		137,146	10,732.6	1.00
Supplemental oxygen					
6 Months - 4	41,227		41,722	3,219.0	1.01
5-17	125,025		126,138	9,774.3	1.01
18-49	148,002		148,641	11,455.5	1.00
50-64	66,444		66,715	5,131.4	1.00
65+	129,876		130,307	10,036.9	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, 2014 and June 30, 2015 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	41,941		42,466	3,302.0	1.01
5-17	126,415		127,553	9,912.7	1.01
18-49	150,745		151,412	11,735.2	1.00
50-64	68,843		69,125	5,369.8	1.00
65+	136,644		137,111	10,719.3	1.00
Critical Care					
6 Months - 4	41,927		42,452	3,295.5	1.01
5-17	126,404		127,542	9,905.0	1.01
18-49	150,690		151,356	11,692.5	1.00
50-64	68,746		69,028	5,317.0	1.00
65+	136,118		136,584	10,430.5	1.00
Extracorporeal membrane oxygenation (ECMO)					
6 Months - 4	41,942		42,467	3,302.8	1.01
5-17	126,415		127,553	9,913.2	1.01
18-49	150,746		151,413	11,738.5	1.00
50-64	68,858		69,141	5,376.3	1.00
65+	136,684		137,151	10,743.9	1.00
Death					
6 Months - 4	41,942		42,467	3,302.8	1.01
5-17	126,415		127,553	9,913.2	1.01
18-49	150,746		151,413	11,737.9	1.00
50-64	68,858		69,141	5,374.9	1.00
65+	136,674		137,141	10,722.9	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, 2014 and June 30, 2015 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	41,937		42,462	3,290.6	1.01
5-17	126,404		127,541	9,900.5	1.01
18-49	150,710		151,377	11,675.7	1.00
50-64	68,767		69,049	5,306.3	1.00
65+	136,087		136,551	10,374.4	1.00
ILI - Treated Day After Diagnosis					
Hospitalization					
6 Months - 4	2,834		2,836	212.7	1.00
5-17	6,558		6,561	493.0	1.01
18-49	9,607		9,618	711.0	1.00
50-64	5,588		5,591	409.0	1.00
65+	17,710		17,715	1,270.2	1.00
BiPAP					
6 Months - 4	2,864		2,866	216.0	1.00
5-17	6,591		6,594	496.3	1.01
18-49	9,756		9,767	734.1	1.00
50-64	5,786		5,789	435.7	1.00
65+	19,106		19,112	1,440.5	1.00
Supplemental oxygen					
6 Months - 4	2,731		2,733	204.2	1.00
5-17	6,394		6,396	480.0	1.01
18-49	9,035		9,043	673.4	1.00
50-64	4,967		4,970	367.1	1.00
65+	15,961		15,964	1,176.4	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, 2014 and June 30, 2015 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	2,864		2,866	215.9	1.00
5-17	6,591		6,594	496.3	1.01
18-49	9,750		9,761	733.7	1.00
50-64	5,782		5,785	434.7	1.00
65+	19,074		19,080	1,434.2	1.00
Critical Care					
6 Months - 4	2,833		2,835	212.7	1.00
5-17	6,566		6,569	494.1	1.01
18-49	9,603		9,614	714.0	1.00
50-64	5,574		5,577	409.6	1.00
65+	17,569		17,574	1,273.6	1.00
ECMO					
6 Months - 4	2,864		2,866	216.0	1.00
5-17	6,591		6,594	496.3	1.01
18-49	9,758		9,769	735.0	1.00
50-64	5,789		5,792	436.8	1.00
65+	19,106		19,112	1,441.6	1.00
Death					
6 Months - 4	2,864		2,866	216.0	1.00
5-17	6,591		6,594	496.3	1.01
18-49	9,757		5,790	436.1	1.00
50-64	5,787		19,108	1,434.1	1.00
65+	19,102		19,108	1,434.1	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, 2014 and June 30, 2015 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	2,836		2,838	212.8	1.00
5-17	6,560		6,563	493.3	1.01
18-49	9,610		9,621	711.5	1.00
50-64	5,593		5,596	410.0	1.00
65+	17,749		17,754	1,276.7	1.00
ILI - Treated 1-5 Days After Diagnosis					
Hospitalization					
6 Months - 4	3,282		3,284	244.4	1.00
5-17	7,723		7,729	575.4	1.01
18-49	11,717		11,731	856.9	1.00
50-64	7,444		7,448	536.3	1.00
65+	26,076		26,095	1,838.5	1.00
BiPAP					
6 Months - 4	3,369		3,371	251.8	1.00
5-17	7,825		7,831	583.9	1.01
18-49	12,748		12,763	945.5	1.00
50-64	9,672		9,684	710.9	1.00
65+	42,839		42,879	3,118.7	1.00
Supplemental oxygen					
6 Months - 4	3,199		3,201	237.2	1.00
5-17	7,579		7,583	563.7	1.01
18-49	11,743		11,754	862.1	1.00
50-64	8,181		8,190	589.7	1.00
65+	36,021		36,050	2,564.2	1.00

Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2014 and June 30, 2015 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	3,369		3,371	251.7	1.00
5-17	7,820		7,826	583.5	1.01
18-49	12,722		12,737	943.4	1.00
50-64	9,574		9,585	702.4	1.00
65+	42,499		42,539	3,086.1	1.00
Critical Care					
6 Months - 4	3,297		3,299	245.6	1.00
5-17	7,751		7,757	577.9	1.01
18-49	11,858		11,872	870.6	1.00
50-64	7,748		7,754	559.1	1.00
65+	28,859		28,878	2,048.6	1.00
ECMO					
6 Months - 4	3,369		3,371	251.8	1.00
5-17	7,826		7,832	584.0	1.01
18-49	12,753		12,768	946.9	1.00
50-64	9,677		9,689	712.6	1.00
65+	42,849		42,889	3,122.0	1.00
Death					
6 Months - 4	3,369		3,371	251.8	1.00
5-17	7,826		7,832	584.0	1.01
18-49	12,752		12,767	946.6	1.00
50-64	9,675		9,687	711.3	1.00
65+	42,840		42,880	3,105.4	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, 2014 and June 30, 2015 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	3,287		3,289	244.8	1.00
5-17	7,729		7,735	576.1	1.01
18-49	11,744		11,758	859.0	1.00
50-64	7,487		7,491	540.2	1.00
65+	26,454		26,473	1,868.3	1.00
ILI - NOT Treated 0-5 Days After Diagnosis					
Hospitalization					
6 Months - 4	31,159		32,080	2,064.1	0.00
5-17	85,299		86,642	5,564.2	0.00
18-49	116,236		118,158	7,564.8	0.00
50-64	60,036		61,692	3,925.0	0.00
65+	129,604		135,394	8,467.9	0.00
BiPAP					
6 Months - 4	31,356		32,285	2,080.2	0.00
5-17	85,518		86,871	5,583.9	0.00
18-49	118,796		120,805	7,771.1	0.00
50-64	65,841		67,754	4,361.6	0.00
65+	170,281		178,098	11,409.7	0.00
Supplemental oxygen					
6 Months - 4	30,405		31,274	2,007.4	0.00
5-17	84,081		85,382	5,481.1	0.00
18-49	114,744		116,633	7,478.2	0.00
50-64	61,525		63,290	4,042.5	0.00
65+	156,678		163,906	10,340.2	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, 2014 and June 30, 2015 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	31,342		32,270	2,079.2	0.00
5-17	85,502		86,856	5,582.9	0.00
18-49	118,536		120,535	7,757.8	0.00
50-64	65,058		66,930	4,310.3	0.00
65+	165,920		173,516	11,100.3	0.00
Critical Care					
6 Months - 4	31,224		32,144	2,069.6	0.00
5-17	85,344		86,689	5,569.8	0.00
18-49	116,171		118,089	7,572.8	0.00
50-64	59,793		61,427	3,918.8	0.00
65+	130,387		136,222	8,556.9	0.00
ECMO					
6 Months - 4	31,358		32,287	2,080.3	0.00
5-17	85,518		86,872	5,584.1	0.00
18-49	118,846		120,858	7,782.4	0.00
50-64	65,938		67,857	4,378.8	0.00
65+	170,344		178,167	11,423.0	0.00
Death					
6 Months - 4	31,358		32,287	2,080.3	0.00
5-17	85,518		86,872	5,584.1	0.00
18-49	118,810		120,821	7,778.7	0.00
50-64	65,779		67,694	4,362.2	0.00
65+	168,203		175,972	11,181.0	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, 2014 and June 30, 2015 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	31,169		32,090	2,064.9	0.00
5-17	85,307		86,650	5,564.8	0.00
18-49	116,316		118,239	7,570.3	0.00
50-64	60,286		61,947	3,940.4	0.00
65+	132,274		138,110	8,618.7	0.00
ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis					
Hospitalization					
6 Months - 4	285		286		
5-17	328		329		
18-49	3,720		3,746		
50-64	8,372		8,437		
65+	59,417		59,765		
BiPAP					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	*****		*****		
50-64	112		115		
65+	87		87		
Supplemental oxygen					
6 Months - 4	1,169		1,181		
5-17	1,732		1,735		
18-49	5,236		5,258		
50-64	6,025		6,063		
65+	21,001		21,097		

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, 2014 and June 30, 2015 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	17		17		
5-17	21		22		
18-49	364		365		
50-64	1,046		1,054		
65+	5,061		5,073		
Critical Care					
6 Months - 4	205		207		
5-17	250		252		
18-49	3,635		3,671		
50-64	8,305		8,405		
65+	55,677		56,113		
ECMO					
6 Months - 4	0		0		
5-17	0		0		
18-49	*****		*****		
50-64	*****		*****		
65+	*****		*****		
Death					
6 Months - 4	0		0		
5-17	0		0		
18-49	54		54		
50-64	201		201		
65+	2,523		2,523		

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, 2014 and June 30, 2015 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	272		273		
5-17	316		317		
18-49	3,613		3,639		
50-64	8,065		8,129		
65+	56,197		56,515		
ILI - Excluded: Outcome and Treatment, on Day of Diagnosis					
Hospitalization					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	37		37		
50-64	92		93		
65+	623		623		
BiPAP					
6 Months - 4	0		0		
5-17	*****		*****		
18-49	*****		*****		
50-64	18		18		
65+	*****		*****		
Supplemental oxygen					
6 Months - 4	743		745		
5-17	1,414		1,415		
18-49	2,771		2,773		
50-64	2,426		2,431		
65+	6,855		6,856		

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, 2014 and June 30, 2015 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	0		0		
18-49	*****		*****		
50-64	*****		*****		
65+	40		40		
Critical Care					
6 Months - 4	15		15		
5-17	11		11		
18-49	57		57		
50-64	112		113		
65+	567		567		
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	0		0		
65+	*****		*****		

Table 4. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2014 and June 30, 2015 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	36		36		
50-64	91		92		
65+	600		600		
ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis					
Hospitalization					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	27		27		
50-64	43		43		
65+	271		271		
BiPAP					
6 Months - 4	0		0		
5-17	*****		*****		
18-49	*****		*****		
50-64	*****		*****		
65+	*****		*****		
Supplemental oxygen					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	45		45		
50-64	50		50		
65+	166		166		

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, 2014 and June 30, 2015 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	0		0		
18-49	*****		*****		
50-64	*****		*****		
65+	*****		*****		
Critical Care					
6 Months - 4	*****		*****		
5-17	*****		*****		
18-49	31		31		
50-64	51		51		
65+	392		392		
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	*****		*****		
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, 2014 and June 30, 2015 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	21		21		
50-64	37		37		
65+	251		251		

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, 2014 and June 30, 2015 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
ILI						
Total						
6 Months - 4	3.53	5.87				1,623,455.8
5-17	3.45	5.56				5,653,105.4
18-49	2.95	5.07				17,544,760.4
50-64	2.76	5.05				10,784,047.8
65+	2.62	5.07				22,710,285.7
Treated Day of Diagnosis						
6 Months - 4	5.96	5.88				
5-17	5.63	5.57				
18-49	5.11	5.08				
50-64	5.13	5.10				
65+	5.26	5.24				
Treated Day After Diagnosis						
6 Months - 4	5.81	5.80				
5-17	5.56	5.53				
18-49	5.11	5.10				
50-64	5.16	5.15				
65+	5.23	5.22				
Treated 1-5 Days After Diagnosis						
6 Months - 4	5.79	5.78				
5-17	5.54	5.50				
18-49	4.98	4.97				
50-64	4.74	4.73				
65+	4.54	4.53				

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, 2014 and June 30, 2015 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
NOT Treated 0-5 Days After 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	5.96	5.88	233	5.49	70.82	
5-17	5.63	5.57	255	2.00	25.76	
18-49	5.11	5.08	1,331	8.79	114.02	
50-64	5.13	5.10	1,336	19.35	251.86	
65+	5.26	5.24	6,152	45.06	593.74	
Bilevel Positive Airway Pressure (BiPAP)						
6 Months - 4	5.96	5.88	*****	*****	*****	
5-17	5.63	5.57	*****	*****	*****	
18-49	5.11	5.08	379	2.50	32.33	
50-64	5.13	5.10	452	6.54	84.38	
65+	5.26	5.24	300	2.19	27.95	
Supplemental oxygen						
6 Months - 4	5.95	5.88	637	15.27	197.89	
5-17	5.63	5.57	592	4.69	60.57	
18-49	5.11	5.08	1,228	8.26	107.20	
50-64	5.13	5.10	1,056	15.83	205.79	
65+	5.26	5.24	3,085	23.67	307.37	

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, 2014 and June 30, 2015 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	5.96	5.88	*****	*****	*****	
5-17	5.63	5.57	*****	*****	*****	
18-49	5.11	5.08	66	0.44	5.62	
50-64	5.13	5.10	109	1.58	20.30	
65+	5.26	5.24	423	3.09	39.46	
Critical Care						
6 Months - 4	5.96	5.88	117	2.76	35.50	
5-17	5.63	5.57	159	1.25	16.05	
18-49	5.11	5.08	836	5.52	71.50	
50-64	5.13	5.10	1,033	14.96	194.28	
65+	5.26	5.24	4,976	36.43	477.06	
Extracorporeal membrane oxygenation (ECMO)						
6 Months - 4	5.96	5.88	0	0.00	0.00	
5-17	5.63	5.57	0	0.00	0.00	
18-49	5.11	5.08	*****	*****	*****	
50-64	5.13	5.10	*****	*****	*****	
65+	5.26	5.24	*****	*****	*****	
Death						
6 Months - 4	5.96	5.88	*****	*****	*****	
5-17	5.63	5.57	*****	*****	*****	
18-49	5.11	5.08	25	0.17	2.13	
50-64	5.13	5.10	55	0.80	10.23	
65+	5.26	5.24	700	5.10	65.28	

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, 2014 and June 30, 2015 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	5.96	5.88	223	5.25	67.77	
5-17	5.63	5.57	247	1.94	24.95	
18-49	5.11	5.08	1,291	8.53	110.57	
50-64	5.13	5.10	1,290	18.68	243.11	
65+	5.26	5.24	5,911	43.29	569.77	
ILI - Treated Day After Diagnosis						
Hospitalization						
6 Months - 4	5.80	5.79	21	7.40	98.73	
5-17	5.57	5.54	19	2.90	38.54	
18-49	5.12	5.11	268	27.86	376.93	
50-64	5.17	5.16	256	45.79	625.92	
65+	5.26	5.25	1,287	72.65	1,013.23	
BiPAP						
6 Months - 4	5.81	5.80	0	0.00	0.00	
5-17	5.56	5.53	0	0.00	0.00	
18-49	5.11	5.10	20	2.05	27.24	
50-64	5.16	5.15	27	4.66	61.97	
65+	5.23	5.22	29	1.52	20.13	
Supplemental oxygen						
6 Months - 4	5.79	5.78	38	13.90	186.09	
5-17	5.57	5.53	32	5.00	66.67	
18-49	5.11	5.10	131	14.49	194.54	
50-64	5.17	5.17	142	28.57	386.82	
65+	5.26	5.25	515	32.26	437.78	

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, 2014 and June 30, 2015 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	5.81	5.80	****	*****	*****	
5-17	5.56	5.53	0	0.00	0.00	
18-49	5.11	5.10	*****	*****	*****	
50-64	5.16	5.15	33	5.70	75.91	
65+	5.23	5.22	100	5.24	69.73	
Critical Care						
6 Months - 4	5.81	5.79	*****	*****	*****	
5-17	5.57	5.53	*****	*****	*****	
18-49	5.12	5.11	188	19.55	263.31	
50-64	5.17	5.16	222	39.81	541.99	
65+	5.26	5.25	1,025	58.32	804.81	
ECMO						
6 Months - 4	5.81	5.80	0	0.00	0.00	
5-17	5.56	5.53	0	0.00	0.00	
18-49	5.11	5.10	0	0.00	0.00	
50-64	5.16	5.15	0	0.00	0.00	
65+	5.23	5.22	0	0.00	0.00	
Death						
6 Months - 4	5.81	5.80	0	0.00	0.00	
5-17	5.56	5.53	0	0.00	0.00	
18-49	5.11	5.10	*****	*****	*****	
50-64	5.16	5.15	*****	*****	*****	
65+	5.23	5.22	260	13.61	181.30	

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, 2014 and June 30, 2015 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	5.81	5.79	20	7.05	93.98	
5-17	5.57	5.53	17	2.59	34.46	
18-49	5.12	5.11	261	27.13	366.83	
50-64	5.17	5.16	242	43.25	590.24	
65+	5.26	5.25	1,209	68.10	946.97	
ILI - Treated 1-5 Days After Diagnosis						
Hospitalization						
6 Months - 4	5.81	5.80	25	7.61	102.29	
5-17	5.55	5.52	25	3.23	43.45	
18-49	5.10	5.09	362	30.86	422.45	
50-64	5.06	5.05	378	50.75	704.83	
65+	5.08	5.07	1,926	73.81	1,047.59	
BiPAP						
6 Months - 4	5.79	5.78	0	0.00	0.00	
5-17	5.54	5.51	0	0.00	0.00	
18-49	4.98	4.97	27	2.12	28.56	
50-64	4.74	4.73	39	4.03	54.86	
65+	4.54	4.53	70	1.63	22.45	
Supplemental oxygen						
6 Months - 4	5.79	5.78	45	14.06	189.71	
5-17	5.54	5.51	42	5.54	74.51	
18-49	4.99	4.98	193	16.42	223.87	
50-64	4.76	4.76	265	32.36	449.38	
65+	4.56	4.55	1,182	32.79	460.96	

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, 2014 and June 30, 2015 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	5.79	5.78	*****	*****	*****	
5-17	5.54	5.51	*****	*****	*****	
18-49	4.99	4.98	*****	*****	*****	
50-64	4.76	4.75	66	6.89	93.96	
65+	4.55	4.54	250	5.88	81.01	
Critical Care						
6 Months - 4	5.81	5.80	19	5.76	77.36	
5-17	5.55	5.52	12	1.55	20.76	
18-49	5.08	5.07	260	21.90	298.64	
50-64	4.99	4.99	345	44.49	617.06	
65+	4.91	4.90	1,696	58.73	827.88	
ECMO						
6 Months - 4	5.79	5.78	0	0.00	0.00	
5-17	5.54	5.50	0	0.00	0.00	
18-49	4.98	4.97	0	0.00	0.00	
50-64	4.74	4.73	0	0.00	0.00	
65+	4.54	4.53	0	0.00	0.00	
Death						
6 Months - 4	5.79	5.78	*****	*****	*****	
5-17	5.54	5.50	0	0.00	0.00	
18-49	4.98	4.97	*****	*****	*****	
50-64	4.74	4.73	*****	*****	*****	
65+	4.54	4.53	576	13.43	185.48	

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, 2014 and June 30, 2015 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	5.81	5.80	23	6.99	93.95	
5-17	5.55	5.52	22	2.84	38.19	
18-49	5.09	5.08	355	30.19	413.27	
50-64	5.05	5.04	361	48.19	668.27	
65+	5.06	5.05	1,844	69.66	986.99	
ILI - NOT Treated 0-5 Days After Diagnosis						
Hospitalization						
6 Months - 4	0.00		79	2.46	38.27	
5-17	0.00		139	1.60	24.98	
18-49	0.00		1,269	10.74	167.75	
50-64	0.00		1,584	25.68	403.57	
65+	0.00		6,765	49.97	798.90	
BiPAP						
6 Months - 4	0.00		*****	*****	*****	
5-17	0.00		*****	*****	*****	
18-49	0.00		*****	*****	*****	
50-64	0.00		328	4.84	75.20	
65+	0.00		295	1.66	25.86	
Supplemental oxygen						
6 Months - 4	0.00		271	8.67	135.00	
5-17	0.00		205	2.40	37.40	
18-49	0.00		806	6.91	107.78	
50-64	0.00		1,083	17.11	267.90	
65+	0.00		4,289	26.17	414.79	

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, 2014 and June 30, 2015 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		*****	*****	*****	
50-64	0.00		314	4.69	72.85	
65+	0.00		1,354	7.80	121.98	
Critical Care						
6 Months - 4	0.00		40	1.24	19.33	
5-17	0.00		68	0.78	12.21	
18-49	0.00		891	7.55	117.66	
50-64	0.00		1,348	21.94	343.98	
65+	0.00		6,023	44.21	703.88	
ECMO						
6 Months - 4	0.00		0	0.00	0.00	
5-17	0.00		0	0.00	0.00	
18-49	0.00		*****	*****	*****	
50-64	0.00		*****	*****	*****	
65+	0.00		*****	*****	*****	
Death						
6 Months - 4	0.00		0	0.00	0.00	
5-17	0.00		0	0.00	0.00	
18-49	0.00		91	0.75	11.70	
50-64	0.00		392	5.79	89.86	
65+	0.00		5,809	33.01	519.54	

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, 2014 and June 30, 2015 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	0.00		73	2.27	35.35	
5-17	0.00		136	1.57	24.44	
18-49	0.00		1,235	10.44	163.14	
50-64	0.00		1,533	24.75	389.05	
65+	0.00		6,300	45.62	730.97	
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, 2014 and June 30, 2015 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						
5-17						
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, 2014 and June 30, 2015 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+						
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, 2014 and June 30, 2015 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						
5-17						
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, 2014 and June 30, 2015 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+						
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, 2014 and June 30, 2015 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						
5-17						
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, 2014 and June 30, 2015 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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
ILI					
Total					
<i>2014</i>					
July	7,413	60,064,963	7,413	0.0	0.19
August	7,425	60,666,954	7,425	0.0	0.20
September	13,529	59,844,695	13,529	0.0	0.26
October	22,616	60,913,831	22,616	0.0	0.32
November	54,787	60,225,411	54,787	0.0	0.54
December	371,716	61,196,804	371,716	0.0	0.62
<i>2015</i>					
January	302,871	57,580,025	302,871	0.0	0.57
February	150,460	56,887,643	150,460	0.0	0.56
March	97,262	57,183,951	97,262	0.0	0.50
April	43,228	57,265,003	43,228	0.0	0.42
May	16,100	57,305,232	16,100	0.0	0.32
June	8,658	57,466,932	8,658	0.0	0.20
Treated Day of Diagnosis					
<i>2014</i>					
July	1,216		1,216	95.7	1.00
August	1,327		1,327	104.7	1.00
September	3,113		3,113	245.4	1.00
October	6,436		6,436	507.2	1.00
November	26,209		26,209	2,062.2	1.00
December	199,612		199,612	15,202.3	1.00

Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	150,729		150,729	11,911.1	1.00
February	74,068		74,068	5,854.2	1.00
March	43,358		43,358	3,425.9	1.00
April	15,742		15,742	1,245.1	1.00
May	4,447		4,447	350.7	1.00
June	1,468		1,468	70.6	1.00
Treated Day After Diagnosis					
2014					
July	92		92	7.0	1.00
August	107		107	8.1	1.00
September	245		245	18.8	1.00
October	479		479	36.5	1.00
November	2,082		2,082	158.4	1.00
December	17,686		17,686	1,312.9	1.00
2015					
January	12,692		12,692	967.9	1.00
February	5,559		5,559	423.6	1.00
March	3,278		3,278	250.3	1.00
April	1,432		1,432	109.4	1.00
May	355		355	27.2	1.01
June	126		126	5.5	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, 2014 and June 30, 2015 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>2014</i>					
July	173		173	12.8	1.00
August	190		190	14.1	1.00
September	389		389	29.1	1.00
October	791		791	58.7	1.00
November	3,365		3,365	249.8	1.00
December	30,333		30,333	2,198.3	1.00
<i>2015</i>					
January	22,677		22,677	1,678.8	1.00
February	9,562		9,562	708.7	1.00
March	5,676		5,676	421.5	1.00
April	2,558		2,558	189.9	1.00
May	633		633	47.0	1.00
June	202		202	8.5	1.00
NOT Treated 0-5 Days After Diagnosis					
<i>2014</i>					
July	6,009		6,009	390.5	0.00
August	5,901		5,901	384.4	0.00
September	9,998		9,998	650.2	0.00
October	15,339		15,339	1,001.0	0.00
November	25,085		25,085	1,633.8	0.00
December	138,117		138,117	8,745.9	0.00

Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	129,143		129,143	8,410.7	0.00
February	66,675		66,675	4,342.4	0.00
March	48,124		48,124	3,137.7	0.00
April	24,879		24,879	1,622.6	0.00
May	10,998		10,998	716.5	0.00
June	5,791		5,791	214.1	0.00
ILI - Treated Day of Diagnosis					
Hospitalization					
2014					
July	1,215		1,215	93.2	1.00
August	1,323		1,323	102.5	1.00
September	3,110		3,110	240.0	1.00
October	6,430		6,430	499.0	1.00
November	26,190		26,190	2,043.1	1.00
December	199,322		199,322	15,015.1	1.00
2015					
January	150,447		150,447	11,735.0	1.00
February	73,969		73,969	5,779.0	1.00
March	43,312		43,312	3,382.6	1.00
April	15,729		15,729	1,226.7	1.00
May	4,440		4,440	344.9	1.00
June	1,468		1,468	69.3	1.00

Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2014 and June 30, 2015 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>2014</i>					
July	1,216		1,216	95.5	1.00
August	1,327		1,327	104.4	1.00
September	3,112		3,112	245.1	1.00
October	6,436		6,436	506.4	1.00
November	26,207		26,207	2,060.5	1.00
December	199,598		199,598	15,184.5	1.00
<i>2015</i>					
January	150,719		150,719	11,897.6	1.00
February	74,060		74,060	5,848.0	1.00
March	43,354		43,354	3,422.0	1.00
April	15,741		15,741	1,243.4	1.00
May	4,446		4,446	350.1	1.00
June	1,468		1,468	70.5	1.00
Supplemental oxygen					
<i>2014</i>					
July	1,183		1,183	91.9	1.00
August	1,293		1,293	101.0	1.00
September	3,024		3,024	235.5	1.00
October	6,278		6,278	490.0	1.00
November	25,510		25,510	1,992.6	1.00
December	194,219		194,219	14,670.1	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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	146,687		146,687	11,485.9	1.00
February	72,160		72,160	5,652.5	1.00
March	42,182		42,182	3,301.4	1.00
April	15,286		15,286	1,194.4	1.00
May	4,281		4,281	333.9	1.00
June	1,420		1,420	67.9	1.00
Mechanical ventilation					
2014					
July	1,215		1,215	95.2	1.00
August	1,327		1,327	104.7	1.00
September	3,113		3,113	245.0	1.00
October	6,436		6,436	506.5	1.00
November	26,208		26,208	2,061.1	1.00
December	199,593		199,593	15,190.4	1.00
2015					
January	150,700		150,700	11,899.1	1.00
February	74,062		74,062	5,848.6	1.00
March	43,356		43,356	3,423.6	1.00
April	15,742		15,742	1,243.9	1.00
May	4,447		4,447	350.5	1.00
June	1,468		1,468	70.5	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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Critical Care					
<i>2014</i>					
July	1,215		1,215	93.8	1.00
August	1,323		1,323	102.7	1.00
September	3,110		3,110	241.0	1.00
October	6,425		6,425	499.6	1.00
November	26,190		26,190	2,046.3	1.00
December	199,324		199,324	15,053.0	1.00
<i>2015</i>					
January	150,452		150,452	11,772.8	1.00
February	73,977		73,977	5,794.4	1.00
March	43,312		43,312	3,390.8	1.00
April	15,726		15,726	1,230.4	1.00
May	4,441		4,441	345.9	1.00
June	1,467		1,467	69.7	1.00
Extracorporeal membrane oxygenation (ECMO)					
<i>2014</i>					
July	1,216		1,216	95.7	1.00
August	1,327		1,327	104.7	1.00
September	3,113		3,113	245.4	1.00
October	6,436		6,436	507.2	1.00
November	26,209		26,209	2,062.2	1.00
December	199,612		199,612	15,202.3	1.00

Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	150,729		150,729	11,911.1	1.00
February	74,068		74,068	5,854.0	1.00
March	43,358		43,358	3,425.9	1.00
April	15,742		15,742	1,245.1	1.00
May	4,447		4,447	350.7	1.00
June	1,468		1,468	70.6	1.00
Death					
2014					
July	1,216		1,216	95.6	1.00
August	1,327		1,327	104.7	1.00
September	3,113		3,113	245.3	1.00
October	6,436		6,436	507.0	1.00
November	26,209		26,209	2,061.7	1.00
December	199,610		199,610	15,194.4	1.00
2015					
January	150,722		150,722	11,901.4	1.00
February	74,068		74,068	5,851.4	1.00
March	43,358		43,358	3,424.8	1.00
April	15,741		15,741	1,244.4	1.00
May	4,447		4,447	350.6	1.00
June	1,468		1,468	70.6	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, 2014 and June 30, 2015 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>2014</i>					
July	1,215		1,215	93.5	1.00
August	1,323		1,323	102.5	1.00
September	3,110		3,110	240.3	1.00
October	6,430		6,430	499.3	1.00
November	26,190		26,190	2,043.7	1.00
December	199,335		199,335	15,021.6	1.00
<i>2015</i>					
January	150,457		150,457	11,740.4	1.00
February	73,970		73,970	5,781.1	1.00
March	43,313		43,313	3,383.7	1.00
April	15,729		15,729	1,227.0	1.00
May	4,440		4,440	345.1	1.00
June	1,468		1,468	69.3	1.00
ILI - Treated Day After Diagnosis					
Hospitalization					
<i>2014</i>					
July	87		87	6.5	1.00
August	99		99	7.3	1.00
September	239		239	18.0	1.00
October	457		457	33.5	1.00
November	2,010		2,010	149.4	1.00
December	16,975		16,975	1,224.8	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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	12,177		12,177	898.8	1.00
February	5,312		5,312	392.2	1.00
March	3,146		3,146	234.2	1.00
April	1,361		1,361	100.8	1.00
May	336		336	25.2	1.01
June	122		122	5.1	1.00
BiPAP					
2014					
July	92		92	7.0	1.00
August	106		106	8.1	1.00
September	245		245	18.8	1.00
October	479		479	36.5	1.00
November	2,082		2,082	158.0	1.00
December	17,683		17,683	1,311.7	1.00
2015					
January	12,692		12,692	967.1	1.00
February	5,559		5,559	423.3	1.00
March	3,277		3,277	249.9	1.00
April	1,432		1,432	109.4	1.00
May	355		355	27.2	1.01
June	126		126	5.5	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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Supplemental oxygen					
<i>2014</i>					
July	84		84	6.3	1.00
August	88		88	6.7	1.00
September	221		221	16.7	1.00
October	436		436	32.9	1.00
November	1,847		1,847	138.4	1.00
December	15,643		15,643	1,145.2	1.00
<i>2015</i>					
January	11,245		11,245	842.7	1.00
February	4,950		4,950	371.1	1.00
March	2,917		2,917	218.5	1.00
April	1,242		1,242	93.6	1.00
May	316		316	23.8	1.00
June	117		117	5.2	1.00
Mechanical ventilation					
<i>2014</i>					
July	92		92	7.0	1.00
August	107		107	8.1	1.00
September	245		245	18.8	1.00
October	479		479	36.3	1.00
November	2,081		2,081	158.2	1.00
December	17,667		17,667	1,309.1	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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	12,677		12,677	963.8	1.00
February	5,551		5,551	422.0	1.00
March	3,276		3,276	249.7	1.00
April	1,431		1,431	108.9	1.00
May	354		354	27.1	1.01
June	126		126	5.5	1.00
Critical Care					
2014					
July	85		85	6.5	1.00
August	101		101	7.5	1.00
September	230		230	17.4	1.00
October	458		458	33.9	1.00
November	2,000		2,000	149.2	1.00
December	16,921		16,921	1,228.9	1.00
2015					
January	12,145		12,145	902.2	1.00
February	5,303		5,303	393.7	1.00
March	3,135		3,135	234.9	1.00
April	1,342		1,342	100.1	1.00
May	330		330	24.9	1.01
June	119		119	5.0	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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
ECMO					
<i>2014</i>					
July	92		92	7.0	1.00
August	107		107	8.1	1.00
September	245		245	18.8	1.00
October	479		479	36.5	1.00
November	2,082		2,082	158.4	1.00
December	17,686		17,686	1,312.9	1.00
<i>2015</i>					
January	12,692		12,692	967.9	1.00
February	5,559		5,559	423.6	1.00
March	3,278		3,278	250.3	1.00
April	1,432		1,432	109.4	1.00
May	355		355	27.2	1.01
June	126		126	5.5	1.00
Death					
<i>2014</i>					
July	92		92	7.0	1.00
August	107		107	8.1	1.00
September	245		245	18.8	1.00
October	479		479	36.4	1.00
November	2,082		2,082	158.3	1.00
December	17,684		17,684	1,310.2	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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	12,688		12,688	964.2	1.00
February	5,559		5,559	422.8	1.00
March	3,277		3,277	249.5	1.00
April	1,432		1,432	109.3	1.00
May	355		355	27.2	1.01
June	126		126	5.5	1.00
Discharge from hospital alive					
2014					
July	87		87	6.5	1.00
August	99		99	7.3	1.00
September	239		239	18.0	1.00
October	459		459	33.9	1.00
November	2,012		2,012	149.8	1.00
December	17,000		17,000	1,228.4	1.00
2015					
January	12,190		12,190	901.3	1.00
February	5,318		5,318	393.2	1.00
March	3,147		3,147	234.6	1.00
April	1,362		1,362	101.1	1.00
May	337		337	25.2	1.01
June	122		122	5.1	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, 2014 and June 30, 2015 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>2014</i>					
July	132		132	9.3	1.00
August	144		144	10.5	1.00
September	305		305	22.5	1.00
October	599		599	43.1	1.00
November	2,606		2,606	191.4	1.00
December	22,573		22,573	1,604.8	1.00
<i>2015</i>					
January	16,257		16,257	1,178.8	1.00
February	6,978		6,978	507.2	1.00
March	4,210		4,210	308.3	1.00
April	1,853		1,853	134.9	1.00
May	463		463	33.9	1.00
June	167		167	6.8	1.00
BiPAP					
<i>2014</i>					
July	173		173	12.8	1.00
August	189		189	14.1	1.00
September	389		389	29.1	1.00
October	791		791	58.6	1.00
November	3,365		3,365	249.1	1.00
December	30,323		30,323	2,195.7	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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	22,669		22,669	1,677.2	1.00
February	9,561		9,561	708.2	1.00
March	5,675		5,675	420.8	1.00
April	2,558		2,558	189.7	1.00
May	633		633	47.0	1.00
June	202		202	8.5	1.00
Supplemental oxygen					
2014					
July	152		152	11.0	1.00
August	164		164	12.1	1.00
September	341		341	25.2	1.00
October	718		718	52.5	1.00
November	2,950		2,950	215.3	1.00
December	26,290		26,290	1,874.6	1.00
2015					
January	19,843		19,843	1,442.8	1.00
February	8,400		8,400	611.4	1.00
March	4,980		4,980	363.1	1.00
April	2,200		2,200	160.1	1.00
May	558		558	40.9	1.00
June	182		182	7.8	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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Mechanical ventilation					
<i>2014</i>					
July	172		172	12.7	1.00
August	190		190	14.1	1.00
September	385		385	28.8	1.00
October	785		785	58.0	1.00
November	3,348		3,348	248.0	1.00
December	30,140		30,140	2,179.8	1.00
<i>2015</i>					
January	22,517		22,517	1,661.6	1.00
February	9,503		9,503	702.2	1.00
March	5,649		5,649	418.7	1.00
April	2,536		2,536	187.7	1.00
May	632		632	46.9	1.00
June	201		201	8.4	1.00
Critical Care					
<i>2014</i>					
July	132		132	9.4	1.00
August	149		149	10.9	1.00
September	304		304	22.5	1.00
October	623		623	45.0	1.00
November	2,692		2,692	197.9	1.00
December	23,797		23,797	1,698.0	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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	17,424		17,424	1,267.2	1.00
February	7,381		7,381	538.3	1.00
March	4,474		4,474	328.8	1.00
April	1,933		1,933	141.3	1.00
May	484		484	35.7	1.00
June	167		167	6.7	1.00
ECMO					
2014					
July	173		173	12.8	1.00
August	190		190	14.1	1.00
September	389		389	29.1	1.00
October	791		791	58.7	1.00
November	3,365		3,365	249.8	1.00
December	30,333		30,333	2,198.3	1.00
2015					
January	22,677		22,677	1,678.8	1.00
February	9,562		9,562	708.7	1.00
March	5,676		5,676	421.5	1.00
April	2,558		2,558	189.9	1.00
May	633		633	47.0	1.00
June	202		202	8.5	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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Death					
<i>2014</i>					
July	173		173	12.8	1.00
August	190		190	14.1	1.00
September	389		389	29.0	1.00
October	791		791	58.5	1.00
November	3,365		3,365	249.4	1.00
December	30,330		30,330	2,191.3	1.00
<i>2015</i>					
January	22,669		22,669	1,671.9	1.00
February	9,562		9,562	707.0	1.00
March	5,675		5,675	420.1	1.00
April	2,558		2,558	189.5	1.00
May	633		633	47.0	1.00
June	202		202	8.5	1.00
Discharge from hospital alive					
<i>2014</i>					
July	132		132	9.3	1.00
August	144		144	10.5	1.00
September	305		305	22.5	1.00
October	605		605	43.7	1.00
November	2,632		2,632	193.3	1.00
December	22,774		22,774	1,620.2	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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	16,406		16,406	1,191.2	1.00
February	7,029		7,029	511.2	1.00
March	4,225		4,225	309.9	1.00
April	1,861		1,861	135.4	1.00
May	466		466	34.1	1.00
June	167		167	6.8	1.00
ILI - NOT Treated 0-5 Days After Diagnosis					
Hospitalization					
2014					
July	5,391		5,391	342.6	0.00
August	5,284		5,284	336.5	0.00
September	9,198		9,198	588.5	0.00
October	13,977		13,977	898.4	0.00
November	22,886		22,886	1,475.1	0.00
December	122,393		122,393	7,662.6	0.00
2015					
January	113,126		113,126	7,286.7	0.00
February	60,004		60,004	3,874.4	0.00
March	43,998		43,998	2,839.1	0.00
April	22,509		22,509	1,450.9	0.00
May	9,977		9,977	640.4	0.00
June	5,223		5,223	190.7	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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
BiPAP					
<i>2014</i>					
July	6,006		6,006	390.1	0.00
August	5,899		5,899	383.9	0.00
September	9,988		9,988	649.0	0.00
October	15,333		15,333	999.4	0.00
November	25,071		25,071	1,631.4	0.00
December	138,049		138,049	8,734.9	0.00
<i>2015</i>					
January	129,082		129,082	8,398.8	0.00
February	66,645		66,645	4,336.2	0.00
March	48,093		48,093	3,132.8	0.00
April	24,865		24,865	1,620.2	0.00
May	10,995		10,995	715.8	0.00
June	5,787		5,787	213.9	0.00
Supplemental oxygen					
<i>2014</i>					
July	5,790		5,790	372.5	0.00
August	5,669		5,669	364.8	0.00
September	9,621		9,621	620.5	0.00
October	14,680		14,680	950.9	0.00
November	23,978		23,978	1,550.7	0.00
December	130,153		130,153	8,168.0	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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	121,914		121,914	7,867.2	0.00
February	63,413		63,413	4,098.0	0.00
March	45,811		45,811	2,961.7	0.00
April	23,481		23,481	1,517.7	0.00
May	10,451		10,451	674.7	0.00
June	5,524		5,524	202.7	0.00
Mechanical ventilation					
2014					
July	5,946		5,946	384.5	0.00
August	5,818		5,818	377.8	0.00
September	9,890		9,890	642.1	0.00
October	15,177		15,177	988.2	0.00
November	24,837		24,837	1,615.6	0.00
December	136,331		136,331	8,624.3	0.00
2015					
January	127,309		127,309	8,282.0	0.00
February	65,900		65,900	4,289.5	0.00
March	47,657		47,657	3,103.3	0.00
April	24,625		24,625	1,604.2	0.00
May	10,881		10,881	707.4	0.00
June	5,736		5,736	211.6	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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Critical Care					
<i>2014</i>					
July	5,202		5,202	332.4	0.00
August	5,169		5,169	330.6	0.00
September	9,127		9,127	586.2	0.00
October	13,880		13,880	894.6	0.00
November	22,745		22,745	1,469.9	0.00
December	123,199		123,199	7,730.8	0.00
<i>2015</i>					
January	113,810		113,810	7,347.5	0.00
February	60,185		60,185	3,890.1	0.00
March	43,966		43,966	2,842.6	0.00
April	22,363		22,363	1,444.1	0.00
May	9,796		9,796	631.3	0.00
June	5,129		5,129	187.7	0.00
ECMO					
<i>2014</i>					
July	6,008		6,008	390.4	0.00
August	5,901		5,901	384.4	0.00
September	9,998		9,998	650.2	0.00
October	15,339		15,339	1,001.0	0.00
November	25,085		25,085	1,633.8	0.00
December	138,111		138,111	8,745.5	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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	129,139		129,139	8,410.5	0.00
February	66,672		66,672	4,342.1	0.00
March	48,122		48,122	3,137.6	0.00
April	24,877		24,877	1,622.5	0.00
May	10,998		10,998	716.5	0.00
June	5,791		5,791	214.1	0.00
Death					
2014					
July	5,970		5,970	386.1	0.00
August	5,863		5,863	380.0	0.00
September	9,955		9,955	645.4	0.00
October	15,276		15,276	994.3	0.00
November	24,988		24,988	1,623.9	0.00
December	137,557		137,557	8,678.3	0.00
2015					
January	128,297		128,297	8,321.9	0.00
February	66,331		66,331	4,308.4	0.00
March	47,935		47,935	3,116.4	0.00
April	24,775		24,775	1,610.7	0.00
May	10,948		10,948	709.6	0.00
June	5,751		5,751	211.3	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, 2014 and June 30, 2015 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>2014</i>					
July	5,420		5,420	344.5	0.00
August	5,318		5,318	338.9	0.00
September	9,240		9,240	591.0	0.00
October	14,065		14,065	903.3	0.00
November	23,007		23,007	1,482.6	0.00
December	123,322		123,322	7,713.4	0.00
<i>2015</i>					
January	114,120		114,120	7,343.5	0.00
February	60,395		60,395	3,895.1	0.00
March	44,203		44,203	2,851.3	0.00
April	22,653		22,653	1,459.3	0.00
May	10,030		10,030	644.0	0.00
June	5,263		5,263	192.2	0.00
ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis					
Hospitalization					
<i>2014</i>					
July	659		659		
August	664		664		
September	887		887		
October	1,561		1,561		
November	2,948		2,948		
December	23,657		23,657		

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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	22,380		22,380		
February	9,224		9,224		
March	5,576		5,576		
April	3,072		3,072		
May	1,191		1,191		
June	744		744		
BiPAP					
2014					
July	*****		*****		
August	*****		*****		
September	*****		*****		
October	*****		*****		
November	14		14		
December	82		82		
2015					
January	67		67		
February	30		30		
March	31		31		
April	14		14		
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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Supplemental oxygen					
<i>2014</i>					
July	240		240		
August	258		258		
September	425		425		
October	735		735		
November	1,511		1,511		
December	12,071		12,071		
<i>2015</i>					
January	10,007		10,007		
February	4,396		4,396		
March	2,991		2,991		
April	1,749		1,749		
May	621		621		
June	330		330		
Mechanical ventilation					
<i>2014</i>					
July	64		64		
August	83		83		
September	113		113		
October	171		171		
November	270		270		
December	2,027		2,027		

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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	1,997		1,997		
February	839		839		
March	499		499		
April	279		279		
May	118		118		
June	71		71		
Critical Care					
2014					
July	850		850		
August	773		773		
September	959		959		
October	1,634		1,634		
November	3,002		3,002		
December	21,603		21,603		
2015					
January	20,514		20,514		
February	8,641		8,641		
March	5,338		5,338		
April	3,127		3,127		
May	1,355		1,355		
June	852		852		

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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
ECMO					
<i>2014</i>					
July	*****		*****		
August	0		0		
September	0		0		
October	0		0		
November	0		0		
December	*****		*****		
<i>2015</i>					
January	*****		*****		
February	*****		*****		
March	*****		*****		
April	*****		*****		
May	0		0		
June	0		0		
Death					
<i>2014</i>					
July	42		42		
August	39		39		
September	49		49		
October	75		75		
November	110		110		
December	743		743		

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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	916		916		
February	384		384		
March	206		206		
April	112		112		
May	59		59		
June	43		43		
Discharge from hospital alive					
2014					
July	629		629		
August	629		629		
September	842		842		
October	1,460		1,460		
November	2,795		2,795		
December	22,435		22,435		
2015					
January	21,214		21,214		
February	8,776		8,776		
March	5,350		5,350		
April	2,918		2,918		
May	1,133		1,133		
June	692		692		

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, 2014 and June 30, 2015 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>2014</i>					
July	*****		*****		
August	*****		*****		
September	*****		*****		
October	*****		*****		
November	19		19		
December	290		290		
<i>2015</i>					
January	282		282		
February	99		99		
March	46		46		
April	*****		*****		
May	*****		*****		
June	0		0		
BiPAP					
<i>2014</i>					
July	0		0		
August	0		0		
September	*****		*****		
October	0		0		
November	*****		*****		
December	14		14		

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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	*****		*****		
February	*****		*****		
March	*****		*****		
April	*****		*****		
May	*****		*****		
June	0		0		
Supplemental oxygen					
2014					
July	33		33		
August	34		34		
September	89		89		
October	158		158		
November	699		699		
December	5,409		5,409		
2015					
January	4,042		4,042		
February	1,908		1,908		
March	1,176		1,176		
April	456		456		
May	166		166		
June	50		50		

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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Mechanical ventilation					
<i>2014</i>					
July	*****		*****		
August	0		0		
September	0		0		
October	0		0		
November	*****		*****		
December	*****		*****		
<i>2015</i>					
January	29		29		
February	*****		*****		
March	*****		*****		
April	0		0		
May	0		0		
June	0		0		
Critical Care					
<i>2014</i>					
July	*****		*****		
August	*****		*****		
September	*****		*****		
October	11		11		
November	19		19		
December	288		288		

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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	277		277		
February	91		91		
March	46		46		
April	16		16		
May	*****		*****		
June	*****		*****		
ECMO					
2014					
July	0		0		
August	0		0		
September	0		0		
October	0		0		
November	0		0		
December	0		0		
2015					
January	0		0		
February	0		0		
March	0		0		
April	0		0		
May	0		0		
June	0		0		

Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Death					
<i>2014</i>					
July	0		0		
August	0		0		
September	0		0		
October	0		0		
November	0		0		
December	*****		*****		
<i>2015</i>					
January	*****		*****		
February	0		0		
March	0		0		
April	*****		*****		
May	0		0		
June	0		0		
Discharge from hospital alive					
<i>2014</i>					
July	*****		*****		
August	*****		*****		
September	*****		*****		
October	*****		*****		
November	19		19		
December	277		277		

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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	272		272		
February	98		98		
March	45		45		
April	*****		*****		
May	*****		*****		
June	0		0		
ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis					
Hospitalization					
2014					
July	*****		*****		
August	*****		*****		
September	0		0		
October	*****		*****		
November	18		18		
December	140		140		
2015					
January	105		105		
February	46		46		
March	27		27		
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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
BiPAP					
<i>2014</i>					
July	0		0		
August	*****		*****		
September	0		0		
October	0		0		
November	0		0		
December	*****		*****		
<i>2015</i>					
January	*****		*****		
February	*****		*****		
March	*****		*****		
April	0		0		
May	0		0		
June	0		0		
Supplemental oxygen					
<i>2014</i>					
July	0		0		
August	0		0		
September	0		0		
October	*****		*****		
November	16		16		
December	122		122		

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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	83		83		
February	32		32		
March	20		20		
April	*****		*****		
May	*****		*****		
June	0		0		
Mechanical ventilation					
2014					
July	0		0		
August	0		0		
September	0		0		
October	*****		*****		
November	0		0		
December	*****		*****		
2015					
January	12		12		
February	*****		*****		
March	*****		*****		
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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
Critical Care					
<i>2014</i>					
July	0		0		
August	*****		*****		
September	*****		*****		
October	*****		*****		
November	*****		*****		
December	212		212		
<i>2015</i>					
January	127		127		
February	58		58		
March	38		38		
April	*****		*****		
May	*****		*****		
June	0		0		
ECMO					
<i>2014</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, 2014 and June 30, 2015 by Year and Month

Month	Members with a Diagnosis	Eligible Members ¹	New Diagnoses	Years at Risk	Dispensings per Member
2015					
January	0		0		
February	0		0		
March	0		0		
April	0		0		
May	0		0		
June	0		0		
Death					
2014					
July	0		0		
August	0		0		
September	0		0		
October	0		0		
November	0		0		
December	*****		*****		
2015					
January	*****		*****		
February	0		0		
March	*****		*****		
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, 2014 and June 30, 2015 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>2014</i>					
July	*****		*****		
August	*****		*****		
September	0		0		
October	*****		*****		
November	*****		*****		
December	124		124		
<i>2015</i>					
January	94		94		
February	42		42		
March	26		26		
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.

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, 2014 and June 30, 2015 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>2014</i>						
July	0.98	5.24				5,055,665.0
August	1.06	5.16				5,074,590.2
September	1.34	5.18				4,906,504.0
October	1.69	5.29				5,087,565.5
November	2.88	5.32				4,936,563.2
December	3.24	5.22				5,081,173.0
<i>2015</i>						
January	3.04	5.31				4,768,621.2
February	2.89	5.19				4,329,800.8
March	2.61	5.16				4,826,760.1
April	2.16	5.11				4,687,606.4
May	1.62	5.13				4,850,530.2
June	1.02	5.13				4,710,275.4
Treated Day of Diagnosis						
<i>2014</i>						
July	5.34	5.34				
August	5.27	5.26				
September	5.23	5.23				
October	5.35	5.34				
November	5.40	5.40				
December	5.30	5.30				

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, 2014 and June 30, 2015 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
2015						
January	5.37	5.37				
February	5.26	5.26				
March	5.23	5.23				
April	5.20	5.20				
May	5.21	5.21				
June	5.18	5.18				
Treated Day After Diagnosis						
2014						
July	5.12	5.12				
August	4.99	4.99				
September	5.17	5.17				
October	5.33	5.33				
November	5.27	5.26				
December	5.23	5.22				
2015						
January	5.43	5.42				
February	5.22	5.22				
March	5.17	5.17				
April	5.11	5.10				
May	5.18	5.15				
June	5.04	5.04				

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, 2014 and June 30, 2015 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>2014</i>						
July	4.58	4.58				
August	4.48	4.48				
September	4.78	4.78				
October	4.85	4.85				
November	4.81	4.80				
December	4.79	4.78				
<i>2015</i>						
January	4.90	4.90				
February	4.70	4.69				
March	4.69	4.68				
April	4.56	4.55				
May	4.60	4.58				
June	4.83	4.83				
NOT Treated 0-5 Days After Diagnosis						
<i>2014</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, 2014 and June 30, 2015 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
2015						
January	0.00					
February	0.00					
March	0.00					
April	0.00					
May	0.00					
June	0.00					
ILI - Treated Day of Diagnosis						
Hospitalization						
2014						
July	5.34	5.34	43	35.39	461.37	
August	5.27	5.26	32	24.19	312.20	
September	5.24	5.24	91	29.26	379.17	
October	5.35	5.34	136	21.15	272.55	
November	5.40	5.40	343	13.10	167.88	
December	5.30	5.30	3,219	16.15	214.38	
2015						
January	5.37	5.37	2,956	19.65	251.90	
February	5.26	5.26	1,295	17.51	224.09	
March	5.23	5.23	753	17.39	222.61	
April	5.20	5.20	309	19.65	251.90	
May	5.21	5.21	90	20.27	260.95	
June	5.18	5.18	40	27.25	577.20	

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, 2014 and June 30, 2015 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>2014</i>						
July	5.34	5.34	*****	*****	*****	
August	5.27	5.26	*****	*****	*****	
September	5.23	5.23	*****	*****	*****	
October	5.35	5.34	17	2.64	33.57	
November	5.40	5.40	49	1.87	23.78	
December	5.30	5.30	451	2.26	29.70	
<i>2015</i>						
January	5.37	5.37	326	2.16	27.40	
February	5.26	5.26	138	1.86	23.60	
March	5.23	5.23	86	1.98	25.13	
April	5.20	5.20	37	2.35	29.76	
May	5.21	5.21	*****	*****	*****	
June	5.18	5.18	*****	*****	*****	
Supplemental oxygen						
<i>2014</i>						
July	5.34	5.34	21	17.75	228.51	
August	5.27	5.26	23	17.79	227.72	
September	5.23	5.23	60	19.84	254.78	
October	5.34	5.34	88	14.02	179.59	
November	5.41	5.40	286	11.21	143.53	
December	5.31	5.30	2,262	11.65	154.19	

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, 2014 and June 30, 2015 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
2015						
January	5.37	5.37	2,002	13.65	174.30	
February	5.26	5.26	950	13.17	168.07	
March	5.23	5.23	562	13.32	170.23	
April	5.20	5.20	255	16.68	213.50	
May	5.22	5.22	66	15.42	197.66	
June	5.19	5.19	23	16.20	338.73	
Mechanical ventilation						
2014						
July	5.34	5.34	*****	*****	*****	
August	5.27	5.26	*****	*****	*****	
September	5.23	5.23	*****	*****	*****	
October	5.35	5.34	12	1.86	23.69	
November	5.40	5.40	21	0.80	10.19	
December	5.30	5.30	202	1.01	13.30	
2015						
January	5.37	5.37	197	1.31	16.56	
February	5.26	5.26	101	1.36	17.27	
March	5.23	5.23	43	0.99	12.56	
April	5.20	5.20	*****	*****	*****	
May	5.21	5.21	*****	*****	*****	
June	5.18	5.18	*****	*****	*****	

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, 2014 and June 30, 2015 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>2014</i>						
July	5.34	5.34	33	27.16	351.81	
August	5.27	5.26	28	21.16	272.64	
September	5.24	5.24	73	23.47	302.90	
October	5.35	5.34	119	18.52	238.19	
November	5.40	5.40	271	10.35	132.43	
December	5.30	5.30	2,464	12.36	163.69	
<i>2015</i>						
January	5.37	5.37	2,200	14.62	186.87	
February	5.26	5.26	992	13.41	171.20	
March	5.23	5.23	591	13.65	174.30	
April	5.20	5.20	247	15.71	200.75	
May	5.21	5.21	73	16.44	211.04	
June	5.18	5.18	30	20.45	430.42	
Extracorporeal membrane oxygenation (ECMO)						
<i>2014</i>						
July	5.34	5.34	0	0.00	0.00	
August	5.27	5.26	0	0.00	0.00	
September	5.23	5.23	0	0.00	0.00	
October	5.35	5.34	0	0.00	0.00	
November	5.40	5.40	0	0.00	0.00	
December	5.30	5.30	*****	*****	*****	

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, 2014 and June 30, 2015 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
2015						
January	5.37	5.37	*****	*****	*****	
February	5.26	5.26	*****	*****	*****	
March	5.23	5.23	0	0.00	0.00	
April	5.20	5.20	0	0.00	0.00	
May	5.21	5.21	0	0.00	0.00	
June	5.18	5.18	0	0.00	0.00	
Death						
2014						
July	5.34	5.34	*****	*****	*****	
August	5.27	5.26	0	0.00	0.00	
September	5.23	5.23	*****	*****	*****	
October	5.35	5.34	*****	*****	*****	
November	5.40	5.40	20	0.76	9.70	
December	5.30	5.30	270	1.35	17.77	
2015						
January	5.37	5.37	309	2.05	25.96	
February	5.26	5.26	106	1.43	18.12	
March	5.23	5.23	41	0.95	11.97	
April	5.20	5.20	*****	*****	*****	
May	5.21	5.21	*****	*****	*****	
June	5.18	5.18	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, 2014 and June 30, 2015 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>2014</i>						
July	5.34	5.34	37	30.45	395.72	
August	5.27	5.26	32	24.19	312.20	
September	5.24	5.24	83	26.69	345.40	
October	5.35	5.34	131	20.37	262.37	
November	5.40	5.40	328	12.52	160.49	
December	5.30	5.30	3,104	15.57	206.64	
<i>2015</i>						
January	5.37	5.37	2,845	18.91	242.33	
February	5.26	5.26	1,240	16.76	214.49	
March	5.23	5.23	731	16.88	216.04	
April	5.20	5.20	304	19.33	247.76	
May	5.21	5.21	87	19.59	252.10	
June	5.18	5.18	40	27.25	577.20	
ILI - Treated Day After Diagnosis						
Hospitalization						
<i>2014</i>						
July	5.18	5.18	*****	*****	*****	
August	5.05	5.05	*****	*****	*****	
September	5.16	5.16	*****	*****	*****	
October	5.32	5.32	24	52.52	716.42	
November	5.30	5.28	67	33.33	448.46	
December	5.25	5.23	698	41.12	569.89	

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, 2014 and June 30, 2015 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
2015						
January	5.45	5.44	605	49.68	673.12	
February	5.25	5.24	251	47.25	639.98	
March	5.18	5.17	116	36.87	495.30	
April	5.15	5.14	63	46.29	625.00	
May	5.21	5.18	*****	*****	*****	
June	5.01	5.01	*****	*****	*****	
BiPAP						
2014						
July	5.12	5.12	0	0.00	0.00	
August	4.99	4.99	0	0.00	0.00	
September	5.17	5.17	0	0.00	0.00	
October	5.33	5.33	*****	*****	*****	
November	5.27	5.26	*****	*****	*****	
December	5.23	5.22	*****	*****	*****	
2015						
January	5.43	5.42	25	1.97	25.85	
February	5.22	5.22	*****	*****	*****	
March	5.17	5.17	*****	*****	*****	
April	5.11	5.10	*****	*****	*****	
May	5.18	5.15	0	0.00	0.00	
June	5.04	5.04	*****	*****	*****	

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, 2014 and June 30, 2015 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>2014</i>						
July	5.07	5.07	*****	*****	*****	
August	5.01	5.01	0	0.00	0.00	
September	5.09	5.09	*****	*****	*****	
October	5.28	5.28	*****	*****	*****	
November	5.28	5.26	41	22.20	296.24	
December	5.26	5.24	305	19.50	266.33	
<i>2015</i>						
January	5.45	5.44	275	24.46	326.33	
February	5.24	5.23	118	23.84	317.97	
March	5.19	5.18	76	26.05	347.83	
April	5.14	5.14	*****	*****	*****	
May	5.20	5.20	*****	*****	*****	
June	5.05	5.05	*****	*****	*****	
Mechanical ventilation						
<i>2014</i>						
July	5.12	5.12	0	0.00	0.00	
August	4.99	4.99	0	0.00	0.00	
September	5.17	5.17	0	0.00	0.00	
October	5.33	5.33	*****	*****	*****	
November	5.27	5.26	*****	*****	*****	
December	5.23	5.22	*****	*****	*****	

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, 2014 and June 30, 2015 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
2015						
January	5.43	5.42	57	4.50	59.14	
February	5.22	5.22	23	4.14	54.50	
March	5.17	5.17	*****	*****	*****	
April	5.11	5.10	*****	*****	*****	
May	5.18	5.15	*****	*****	*****	
June	5.04	5.04	0	0.00	0.00	
Critical Care						
2014						
July	5.20	5.20	0	0.00	0.00	
August	5.03	5.03	*****	*****	*****	
September	5.21	5.21	*****	*****	*****	
October	5.31	5.31	*****	*****	*****	
November	5.30	5.29	54	27.00	361.93	
December	5.25	5.23	532	31.44	432.91	
2015						
January	5.45	5.44	485	39.93	537.57	
February	5.23	5.22	213	40.17	541.02	
March	5.18	5.18	85	27.11	361.86	
April	5.15	5.14	46	34.28	459.54	
May	5.22	5.18	*****	*****	*****	
June	5.07	5.07	*****	*****	*****	

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, 2014 and June 30, 2015 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>2014</i>						
July	5.12	5.12	0	0.00	0.00	
August	4.99	4.99	0	0.00	0.00	
September	5.17	5.17	0	0.00	0.00	
October	5.33	5.33	0	0.00	0.00	
November	5.27	5.26	0	0.00	0.00	
December	5.23	5.22	0	0.00	0.00	
<i>2015</i>						
January	5.43	5.42	0	0.00	0.00	
February	5.22	5.22	0	0.00	0.00	
March	5.17	5.17	0	0.00	0.00	
April	5.11	5.10	0	0.00	0.00	
May	5.18	5.15	0	0.00	0.00	
June	5.04	5.04	0	0.00	0.00	
Death						
<i>2014</i>						
July	5.12	5.12	0	0.00	0.00	
August	4.99	4.99	0	0.00	0.00	
September	5.17	5.17	*****	*****	*****	
October	5.33	5.33	*****	*****	*****	
November	5.27	5.26	*****	*****	*****	
December	5.23	5.22	*****	*****	*****	

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, 2014 and June 30, 2015 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
2015						
January	5.43	5.42	115	9.06	119.27	
February	5.22	5.22	31	5.58	73.32	
March	5.17	5.16	*****	*****	*****	
April	5.11	5.10	*****	*****	*****	
May	5.18	5.15	*****	*****	*****	
June	5.04	5.04	0	0.00	0.00	
Discharge from hospital alive						
2014						
July	5.18	5.18	*****	*****	*****	
August	5.05	5.05	*****	*****	*****	
September	5.16	5.16	*****	*****	*****	
October	5.32	5.32	21	45.75	619.47	
November	5.30	5.28	62	30.82	413.89	
December	5.25	5.23	656	38.59	534.03	
2015						
January	5.45	5.44	573	47.01	635.75	
February	5.25	5.24	239	44.94	607.83	
March	5.18	5.17	110	34.95	468.88	
April	5.15	5.14	60	44.05	593.47	
May	5.21	5.18	*****	*****	*****	
June	5.01	5.01	*****	*****	*****	

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, 2014 and June 30, 2015 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>2014</i>						
July	4.94	4.94	*****	*****	*****	
August	4.82	4.82	*****	*****	*****	
September	5.17	5.17	*****	*****	*****	
October	5.19	5.19	36	60.10	835.27	
November	5.14	5.13	87	33.38	454.55	
December	5.14	5.13	1,036	45.90	645.56	
<i>2015</i>						
January	5.37	5.36	881	54.19	747.37	
February	5.08	5.08	356	51.02	701.89	
March	5.05	5.04	169	40.14	548.17	
April	4.95	4.94	96	51.81	711.64	
May	4.93	4.91	*****	*****	*****	
June	5.06	5.06	*****	*****	*****	
BiPAP						
<i>2014</i>						
July	4.58	4.58	0	0.00	0.00	
August	4.48	4.48	0	0.00	0.00	
September	4.78	4.78	0	0.00	0.00	
October	4.85	4.85	*****	*****	*****	
November	4.81	4.80	*****	*****	*****	
December	4.79	4.78	48	1.58	21.86	

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, 2014 and June 30, 2015 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
2015						
January	4.90	4.90	34	1.50	20.27	
February	4.70	4.69	15	1.57	21.18	
March	4.69	4.68	11	1.94	26.14	
April	4.56	4.55	*****	*****	*****	
May	4.60	4.58	0	0.00	0.00	
June	4.83	4.83	*****	*****	*****	
Supplemental oxygen						
2014						
July	4.54	4.54	*****	*****	*****	
August	4.45	4.45	*****	*****	*****	
September	4.74	4.74	*****	*****	*****	
October	4.84	4.84	18	25.07	342.86	
November	4.82	4.81	80	27.12	371.57	
December	4.82	4.81	650	24.72	346.74	
2015						
January	4.94	4.93	529	26.66	366.65	
February	4.72	4.71	232	27.62	379.46	
March	4.71	4.71	134	26.91	369.04	
April	4.59	4.58	62	28.18	387.26	
May	4.61	4.61	*****	*****	*****	
June	4.84	4.84	*****	*****	*****	

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, 2014 and June 30, 2015 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>2014</i>						
July	4.60	4.60	0	0.00	0.00	
August	4.48	4.48	*****	*****	*****	
September	4.80	4.80	0	0.00	0.00	
October	4.87	4.87	*****	*****	*****	
November	4.82	4.81	*****	*****	*****	
December	4.79	4.78	112	3.72	51.38	
<i>2015</i>						
January	4.91	4.91	129	5.73	77.64	
February	4.70	4.70	54	5.68	76.90	
March	4.69	4.69	17	3.01	40.60	
April	4.57	4.56	*****	*****	*****	
May	4.60	4.59	*****	*****	*****	
June	4.83	4.83	*****	*****	*****	
Critical Care						
<i>2014</i>						
July	4.90	4.90	*****	*****	*****	
August	4.74	4.74	*****	*****	*****	
September	5.07	5.07	*****	*****	*****	
October	5.08	5.08	31	49.76	688.89	
November	5.09	5.07	76	28.23	384.03	
December	5.06	5.04	880	36.98	518.26	

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, 2014 and June 30, 2015 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
2015						
January	5.24	5.24	769	44.13	606.85	
February	4.97	4.97	318	43.08	590.75	
March	4.96	4.95	136	30.40	413.63	
April	4.84	4.84	75	38.80	530.79	
May	4.86	4.84	*****	*****	*****	
June	5.09	5.09	*****	*****	*****	
ECMO						
2014						
July	4.58	4.58	0	0.00	0.00	
August	4.48	4.48	0	0.00	0.00	
September	4.78	4.78	0	0.00	0.00	
October	4.85	4.85	0	0.00	0.00	
November	4.81	4.80	0	0.00	0.00	
December	4.79	4.78	0	0.00	0.00	
2015						
January	4.90	4.90	0	0.00	0.00	
February	4.70	4.69	0	0.00	0.00	
March	4.69	4.68	0	0.00	0.00	
April	4.56	4.55	0	0.00	0.00	
May	4.60	4.58	0	0.00	0.00	
June	4.83	4.83	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, 2014 and June 30, 2015 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>2014</i>						
July	4.58	4.58	0	0.00	0.00	
August	4.48	4.48	*****	*****	*****	
September	4.78	4.78	*****	*****	*****	
October	4.85	4.85	*****	*****	*****	
November	4.81	4.80	*****	*****	*****	
December	4.79	4.78	247	8.14	112.72	
<i>2015</i>						
January	4.90	4.90	227	10.01	135.77	
February	4.70	4.69	68	7.11	96.18	
March	4.68	4.68	35	6.17	83.31	
April	4.56	4.55	*****	*****	*****	
May	4.60	4.58	*****	*****	*****	
June	4.83	4.83	0	0.00	0.00	
Discharge from hospital alive						
<i>2014</i>						
July	4.94	4.94	*****	*****	*****	
August	4.82	4.82	*****	*****	*****	
September	5.17	5.17	*****	*****	*****	
October	5.17	5.17	33	54.55	755.15	
November	5.13	5.11	86	32.67	444.90	
December	5.13	5.12	988	43.38	609.80	

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, 2014 and June 30, 2015 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
2015						
January	5.35	5.35	841	51.26	706.01	
February	5.07	5.06	350	49.79	684.66	
March	5.04	5.04	156	36.92	503.39	
April	4.94	4.94	96	51.59	709.01	
May	4.92	4.90	*****	*****	*****	
June	5.06	5.06	*****	*****	*****	
ILI - NOT Treated 0-5 Days After Diagnosis						
Hospitalization						
2014						
July	0.00		244	45.26	712.20	
August	0.00		223	42.20	662.70	
September	0.00		302	32.83	513.17	
October	0.00		423	30.26	470.84	
November	0.00		486	21.24	329.47	
December	0.00		2,385	19.49	311.25	
2015						
January	0.00		2,670	23.60	366.42	
February	0.00		1,202	20.03	310.24	
March	0.00		905	20.57	318.76	
April	0.00		565	25.10	389.41	
May	0.00		309	30.97	482.51	
June	0.00		122	23.36	639.75	

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, 2014 and June 30, 2015 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>2014</i>						
July	0.00		*****	*****	*****	
August	0.00		*****	*****	*****	
September	0.00		18	1.80	27.73	
October	0.00		39	2.54	39.02	
November	0.00		48	1.91	29.42	
December	0.00		227	1.64	25.99	
<i>2015</i>						
January	0.00		236	1.83	28.10	
February	0.00		116	1.74	26.75	
March	0.00		97	2.02	30.96	
April	0.00		46	1.85	28.39	
May	0.00		*****	*****	*****	
June	0.00		*****	*****	*****	
Supplemental oxygen						
<i>2014</i>						
July	0.00		99	17.10	265.77	
August	0.00		123	21.70	337.17	
September	0.00		142	14.76	228.85	
October	0.00		204	13.90	214.53	
November	0.00		306	12.76	197.33	
December	0.00		1,845	14.18	225.88	

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, 2014 and June 30, 2015 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
2015						
January	0.00		1,890	15.50	240.24	
February	0.00		846	13.34	206.44	
March	0.00		627	13.69	211.70	
April	0.00		363	15.46	239.18	
May	0.00		156	14.93	231.21	
June	0.00		53	9.59	261.47	
Mechanical ventilation						
2014						
July	0.00		64	10.76	166.45	
August	0.00		46	7.91	121.76	
September	0.00		58	5.86	90.33	
October	0.00		77	5.07	77.92	
November	0.00		90	3.62	55.71	
December	0.00		394	2.89	45.68	
2015						
January	0.00		519	4.08	62.67	
February	0.00		209	3.17	48.72	
March	0.00		157	3.29	50.59	
April	0.00		98	3.98	61.09	
May	0.00		62	5.70	87.64	
June	0.00		25	4.36	118.15	

Table 5. Summary of Outcomes After Diagnosis of Influenza-like Illness (ILI) by Time of Treatment in the Sentinel Distributed Database (SDD) between July 1, 2014 and June 30, 2015 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>2014</i>						
July	0.00		205	39.41	616.73	
August	0.00		199	38.50	601.94	
September	0.00		241	26.41	411.12	
October	0.00		347	25.00	387.88	
November	0.00		400	17.59	272.13	
December	0.00		1,978	16.06	255.86	
<i>2015</i>						
January	0.00		2,301	20.22	313.17	
February	0.00		1,095	18.19	281.48	
March	0.00		764	17.38	268.77	
April	0.00		483	21.60	334.46	
May	0.00		256	26.13	405.51	
June	0.00		101	19.69	538.09	
ECMO						
<i>2014</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		*****	*****	*****	

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, 2014 and June 30, 2015 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
2015						
January	0.00		*****	*****	*****	
February	0.00		*****	*****	*****	
March	0.00		0	0.00	0.00	
April	0.00		*****	*****	*****	
May	0.00		0	0.00	0.00	
June	0.00		0	0.00	0.00	
Death						
2014						
July	0.00		121	20.27	313.39	
August	0.00		109	18.59	286.84	
September	0.00		130	13.06	201.43	
October	0.00		172	11.26	172.99	
November	0.00		242	9.68	149.02	
December	0.00		1,673	12.16	192.78	
2015						
January	0.00		1,974	15.39	237.21	
February	0.00		817	12.32	189.63	
March	0.00		498	10.39	159.80	
April	0.00		309	12.47	191.84	
May	0.00		187	17.08	263.53	
June	0.00		60	10.43	283.96	

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, 2014 and June 30, 2015 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>2014</i>						
July	0.00		232	42.80	673.44	
August	0.00		213	40.05	628.50	
September	0.00		280	30.30	473.77	
October	0.00		415	29.51	459.43	
November	0.00		455	19.78	306.89	
December	0.00		2,260	18.33	293.00	
<i>2015</i>						
January	0.00		2,518	22.06	342.89	
February	0.00		1,126	18.64	289.08	
March	0.00		851	19.25	298.46	
April	0.00		532	23.48	364.56	
May	0.00		279	27.82	433.23	
June	0.00		116	22.04	603.54	
ILI - Excluded: Outcome Before Treatment, 0-5 Days After Diagnosis						
Hospitalization						
<i>2014</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, 2014 and June 30, 2015 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
2015						
January						
February						
March						
April						
May						
June						
BiPAP						
2014						
July						
August						
September						
October						
November						
December						
2015						
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, 2014 and June 30, 2015 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>2014</i>						
July						
August						
September						
October						
November						
December						
<i>2015</i>						
January						
February						
March						
April						
May						
June						
Mechanical ventilation						
<i>2014</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, 2014 and June 30, 2015 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
2015						
January						
February						
March						
April						
May						
June						
Critical Care						
2014						
July						
August						
September						
October						
November						
December						
2015						
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, 2014 and June 30, 2015 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>2014</i>						
July						
August						
September						
October						
November						
December						
<i>2015</i>						
January						
February						
March						
April						
May						
June						
Death						
<i>2014</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, 2014 and June 30, 2015 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
2015						
January						
February						
March						
April						
May						
June						
Discharge from hospital alive						
2014						
July						
August						
September						
October						
November						
December						
2015						
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, 2014 and June 30, 2015 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>2014</i>						
July						
August						
September						
October						
November						
December						
<i>2015</i>						
January						
February						
March						
April						
May						
June						
BiPAP						
<i>2014</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, 2014 and June 30, 2015 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
2015						
January						
February						
March						
April						
May						
June						
Supplemental oxygen						
2014						
July						
August						
September						
October						
November						
December						
2015						
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, 2014 and June 30, 2015 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>2014</i>						
July						
August						
September						
October						
November						
December						
<i>2015</i>						
January						
February						
March						
April						
May						
June						
Critical Care						
<i>2014</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, 2014 and June 30, 2015 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
2015						
January						
February						
March						
April						
May						
June						
ECMO						
2014						
July						
August						
September						
October						
November						
December						
2015						
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, 2014 and June 30, 2015 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>2014</i>						
July						
August						
September						
October						
November						
December						
<i>2015</i>						
January						
February						
March						
April						
May						
June						
Discharge from hospital alive						
<i>2014</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, 2014 and June 30, 2015 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
2015						
January						
February						
March						
April						
May						
June						
ILI - Excluded: Outcome and Treatment, 1-5 Days After Diagnosis						
Hospitalization						
2014						
July						
August						
September						
October						
November						
December						
2015						
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, 2014 and June 30, 2015 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>2014</i>						
July						
August						
September						
October						
November						
December						
<i>2015</i>						
January						
February						
March						
April						
May						
June						
Supplemental oxygen						
<i>2014</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, 2014 and June 30, 2015 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
2015						
January						
February						
March						
April						
May						
June						
Mechanical ventilation						
2014						
July						
August						
September						
October						
November						
December						
2015						
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, 2014 and June 30, 2015 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>2014</i>						
July						
August						
September						
October						
November						
December						
<i>2015</i>						
January						
February						
March						
April						
May						
June						
ECMO						
<i>2014</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, 2014 and June 30, 2015 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
2015						
January						
February						
March						
April						
May						
June						
Death						
2014						
July						
August						
September						
October						
November						
December						
2015						
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, 2014 and June 30, 2015 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>2014</i>						
July						
August						
September						
October						
November						
December						
<i>2015</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, 2015)

DP ID	Start Date ¹	End Date ¹
DP01	1/1/2000	6/30/2015
DP02	1/1/2000	6/30/2015
DP03	1/1/2008	6/30/2015
DP04	1/1/2000	6/30/2015
DP05	1/1/2006	6/30/2015
DP06	1/1/2008	6/30/2015
DP07	1/1/2000	6/30/2015
DP08	6/1/2007	6/30/2015
DP09	1/1/2004	6/30/2015
DP10	1/1/2000	6/30/2015
DP11	6/1/2007	6/30/2015
DP12	1/1/2000	6/30/2015
DP13	1/1/2010	6/30/2015

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)			
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
0WHQ73Z	Insertion of Infusion Device into Respiratory Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0WHQ7YZ	Insertion of Other Device into Respiratory Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), and Revenue Codes Used to Define Endpoints in this Request

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		Procedure	CPT-4
	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.		
99226		Procedure	CPT-4
	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.		
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

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
201	Surgical	Procedure	Revenue
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	
		Category	Code Type
Peramivir			
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 qvalsplitted 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)
Influenza Season July 1, 2015 - June 30, 2016	
influenza virus vaccine qvalsplitted 2016-2017(6 mos and older)	Flulaval Quad 2016-2017
influenza virus vaccine qvalsplitted 2016-2017(6 mos and up)/PF	Flulaval Quad 2016-2017 (PF)

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

Generic Name	Brand Name
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 qvalsplitted 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	Pevnar (PF)
pneumococcal 23-valent polysaccharide vaccine	Pneumovax 23
pneumococcal 13-valent conjugate vaccine (Diphtheria crm)/PF	Pevnar 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

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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

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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	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

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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

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
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

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

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).

<p style="text-align: center;"> 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 </p>														
Exposure							Inclusion/Exclusion					Outcome		
Scenario	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 Partners (DP) end date; *Query end date;	Treatment	Exclusion	(-10,-1)	N/A for National Drug Codes (NDCs) For procedure codes (PXX): 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 PXX: Ambulatory visit; Other ambulatory visit; Emergency department;	Hospitalization (Admission Date; Discharge Status = Alive, Expired, Unknown)	0	Inpatient
3	ILI Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	N/A for NDCs For PXX: 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 PXX: 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 PXX: 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).

<p style="text-align: center;"> 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 </p>														
Exposure								Inclusion/Exclusion				Outcome		
Scenario	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
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

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).

<p style="text-align: center;"> 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 </p>														
Exposure							Inclusion/Exclusion					Outcome		
Scenario	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
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
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).

<p style="text-align: center;"> 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 </p>														
Exposure								Inclusion/Exclusion				Outcome		
Scenario	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
18	P&I Diagnosis	*Ambulatory visit; *Other ambulatory visit; *Emergency department;	30 days	ILI Diagnosis, Definition 1	All valid exposure episodes during query period;	30	*Disenrollment; *DP end date; *Query end date;	Treatment	Exclusion	(-10,-1)	N/A for NDCs For PXs: Ambulatory visit; Other ambulatory visit; Emergency department;	Death	0	Any

Appendix H. Specifications Defining Parameters for this Request

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

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

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).

<p style="text-align: center;"> 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 </p>														
Exposure							Inclusion/Exclusion				Outcome			
Scenario	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
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
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

