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

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

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

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

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## Overview for cder\_mpl1r\_wp034, Report 1 of 2

**Request ID:** cder\_mpl1r\_wp034\_nsdv\_v01

**Request Description:** In this report we estimated the number of pediatric patients 0 to <24 months of age with respiratory syncytial virus (RSV) and RSV-related events and related preventative services in the Sentinel Distributed Database (SDD). This is report 1 of 2. Report 2 contains estimates of the number of pediatric patients 1 to <24 months of age with RSV and RSV-related events and preventative services in the SDD.

**Sentinel Routine Querying Module:** Cohort Identification and Descriptive Analysis (CIDA) module, version 3.0.2.

**Data Source:** We included data from January 1, 2008 to September 30, 2015 from 16 Data Partners contributing to the SDD in this request. This request was distributed to Data Partners on August 7, 2016. See Appendix A for a list of the latest dates of available data for each Data Partner.

**Study Design:** We designed this request to calculate background rates of RSV and RSV-related events among children 0 to <24 months of age.

**Events of Interest:** We evaluated children aged 0 to <24 months for the following seven definitions for RSV-related events:

- 1) An RSV diagnosis in the inpatient, ambulatory, or emergency care setting
- 2) An RSV diagnosis in the inpatient or emergency care setting or two RSV diagnoses in the ambulatory care setting within 14 days of each other
- 3) A polymerase chain reaction (PCR) lab test for RSV or an antigen lab test for RSV
- 4) A PCR lab test for RSV
- 5) An antigen lab test for RSV
- 6) A Synagis dispensing or procedure
- 7) A bronchiolitis diagnosis

The events above were defined using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) codes, National Drug Codes (NDCs), Current Procedural Terminology, Fourth Edition (CPT-4) codes, and Healthcare Common Procedure Coding System (HCPCS) codes. Please see Appendix B for specific codes used to define the events of interest in this request. In order for an event to be included, we required that there was no evidence of an event of that type in the prior 30 days. All qualifying RSV-related events between January 1, 2008 and September 30, 2015 were considered for each child; cohort re-entry was allowed.

**Cohort Eligibility Criteria:** Members included in each cohort were required to be enrolled in plans with both medical and drug coverage for at least one day prior to the event of interest. The cohorts included the following age categories: 0-2, 0-5, 3-5, 6-11, 6-17, 12-23, and 18-23 months.

**Please see Appendix C for the specifications of parameters used in the analyses for this request.**

**Limitations:** Algorithms used to define exposures and events are imperfect and may be misclassified. Therefore, data should be interpreted with this limitation in mind.

**Notes:** Please contact the Sentinel Operations Center ([info@sentinelssystem.org](mailto:info@sentinelssystem.org)) for questions and to provide comments/suggestions for future enhancements to this document.

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

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

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

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

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

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

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

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

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

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

**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 1. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event**

<b>RSV-Related Event</b>	<b>New Members with Event</b>	<b>New Event Episodes</b>	<b>Eligible Members</b>	<b>Member-Years</b>	<b>Incidence per 1,000 Eligible Members</b>
RSV diagnosis in IP, ED, or AV care setting <sup>1</sup>	89,537	93,629	6,968,240	6,907,007.1	12.85
RSV diagnosis in IP or ED care setting or two RSV diagnoses in AV care setting <sup>1</sup>	44,528	45,059	6,968,240	6,907,007.1	6.39
Polymerase chain reaction (PCR) lab test for RSV or antigen lab test for RSV	86,044	93,800	6,968,240	6,907,007.1	12.35
PCR lab test for RSV	68,381	74,274	6,968,240	6,907,007.1	9.81
Antigen lab test for RSV	18,407	19,967	6,968,240	6,907,007.1	2.64
Synagis dispensing or procedure	24,034	32,921	6,968,240	6,907,007.1	3.45
Bronchiolitis diagnosis	775,782	979,029	6,968,240	6,907,007.1	111.33

<sup>1</sup>IP = inpatient hospital stay care setting  
 ED = emergency department care setting  
 AV = ambulatory visit care setting

**Table 2. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Age Group**

Age Group	New Members with Event	New Event Episodes	Eligible Members	Member-Years	Incidence per 1,000 Eligible Members
<b>RSV Diagnosis in IP, ED, or AV Care Setting<sup>1</sup></b>					
0-2 Months	18,287	18,421	4,024,997	827,968.8	4.54
0-5 Months	38,172	38,888	4,497,256	1,671,265.4	8.49
3-5 Months	20,226	20,467	3,824,481	843,296.6	5.29
6-11 Months	26,545	27,094	4,258,924	1,720,109.7	6.23
12-17 Months	16,371	16,641	4,362,134	1,744,803.1	3.75
12-23 Months	26,988	27,647	5,181,940	3,515,632.0	5.21
18-23 Months	10,834	11,006	4,360,536	1,770,828.9	2.48
<b>RSV Diagnosis in IP or ED Care Setting or Two RSV Diagnoses in AV Care Setting<sup>1</sup></b>					
0-2 Months	11,468	11,494	4,024,997	827,968.8	2.85
0-5 Months	20,982	21,062	4,497,256	1,671,265.4	4.67
3-5 Months	9,555	9,568	3,824,481	843,296.6	2.50
6-11 Months	11,689	11,727	4,258,924	1,720,109.7	2.74
12-17 Months	7,381	7,403	4,362,134	1,744,803.1	1.69
12-23 Months	12,203	12,270	5,181,940	3,515,632.0	2.35
18-23 Months	4,851	4,867	4,360,536	1,770,828.9	1.11
<b>Polymerase Chain Reaction (PCR) Lab Test for RSV or Antigen Lab Test for RSV</b>					
0-2 Months	15,588	15,725	4,024,997	827,968.8	3.87
0-5 Months	31,805	32,789	4,497,256	1,671,265.4	7.07
3-5 Months	16,819	17,064	3,824,481	843,296.6	4.40
6-11 Months	23,739	24,644	4,258,924	1,720,109.7	5.57
12-17 Months	19,752	20,404	4,362,134	1,744,803.1	4.53
12-23 Months	34,431	36,367	5,181,940	3,515,632.0	6.64
18-23 Months	15,514	15,963	4,360,536	1,770,828.9	3.56
<b>PCR Lab Test for RSV</b>					
0-2 Months	13,308	13,413	4,024,997	827,968.8	3.31
0-5 Months	26,962	27,746	4,497,256	1,671,265.4	6.00
3-5 Months	14,139	14,333	3,824,481	843,296.6	3.70
6-11 Months	18,957	19,629	4,258,924	1,720,109.7	4.45
12-17 Months	14,508	14,978	4,362,134	1,744,803.1	3.33
12-23 Months	25,470	26,899	5,181,940	3,515,632.0	4.92
18-23 Months	11,595	11,921	4,360,536	1,770,828.9	2.66
<b>Antigen Lab Test for RSV</b>					
0-2 Months	2,355	2,383	4,024,997	827,968.8	0.59
0-5 Months	4,988	5,160	4,497,256	1,671,265.4	1.11
3-5 Months	2,730	2,777	3,824,481	843,296.6	0.71
6-11 Months	4,931	5,135	4,258,924	1,720,109.7	1.16
12-17 Months	5,384	5,553	4,362,134	1,744,803.1	1.23
12-23 Months	9,224	9,672	5,181,940	3,515,632.0	1.78
18-23 Months	4,006	4,119	4,360,536	1,770,828.9	0.92

**Table 2. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Age Group**

Age Group	New Members with Event	New Event Episodes	Eligible Members	Member-Years	Incidence per 1,000 Eligible Members
<b>Synagis Dispensing or Procedure</b>					
0-2 Months	9,448	9,755	4,024,997	827,968.8	2.35
0-5 Months	16,663	18,559	4,497,256	1,671,265.4	3.71
3-5 Months	8,137	8,804	3,824,481	843,296.6	2.13
6-11 Months	7,539	8,934	4,258,924	1,720,109.7	1.77
12-17 Months	2,972	3,546	4,362,134	1,744,803.1	0.68
12-23 Months	4,154	5,428	5,181,940	3,515,632.0	0.80
18-23 Months	1,570	1,882	4,360,536	1,770,828.9	0.36
<b>Bronchiolitis Diagnosis</b>					
0-2 Months	98,317	99,730	4,024,997	827,968.8	24.43
0-5 Months	295,719	316,982	4,497,256	1,671,265.4	65.76
3-5 Months	208,579	217,252	3,824,481	843,296.6	54.54
6-11 Months	304,942	338,034	4,258,924	1,720,109.7	71.60
12-17 Months	181,313	198,465	4,362,134	1,744,803.1	41.57
12-23 Months	282,438	324,013	5,181,940	3,515,632.0	54.50
18-23 Months	116,260	125,548	4,360,536	1,770,828.9	26.66

<sup>1</sup>IP = inpatient hospital stay care setting  
 ED = emergency department care setting  
 AV = ambulatory visit care setting

**Table 3. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Sex**

Sex	New Members with Event	New Event Episodes	Eligible Members	Member-Years	Incidence per 1,000 Eligible Members
<b>RSV Diagnosis in IP, ED, or AV Care Setting<sup>1</sup></b>					
Female	40,968	42,729	3,388,842	3,361,927.1	12.09
Male	48,567	50,898	3,578,839	3,544,728.2	13.57
Unknown	2	2	559	351.9	3.58
<b>RSV Diagnosis in IP or ED Care Setting or Two RSV Diagnoses in AV Care Setting<sup>1</sup></b>					
Female	20,264	20,489	3,388,842	3,361,927.1	5.98
Male	24,264	24,570	3,578,839	3,544,728.2	6.78
Unknown	0	0	559	351.9	0.00
<b>Polymerase Chain Reaction (PCR) Lab Test for RSV or Antigen Lab Test for RSV</b>					
Female	38,716	42,068	3,388,842	3,361,927.1	11.42
Male	47,324	51,728	3,578,839	3,544,728.2	13.22
Unknown	4	4	559	351.9	7.16
<b>PCR Lab Test for RSV</b>					
Female	30,787	33,324	3,388,842	3,361,927.1	9.08
Male	37,590	40,946	3,578,839	3,544,728.2	10.50
Unknown	4	4	559	351.9	7.16
<b>Antigen Lab Test for RSV</b>					
Female	8,244	8,927	3,388,842	3,361,927.1	2.43
Male	10,163	11,040	3,578,839	3,544,728.2	2.84
Unknown	0	0	559	351.9	0.00
<b>Synagis Dispensing or Procedure</b>					
Female	11,353	15,493	3,388,842	3,361,927.1	3.35
Male	12,681	17,428	3,578,839	3,544,728.2	3.54
Unknown	0	0	559	351.9	0.00
<b>Bronchiolitis Diagnosis</b>					
Female	326,469	402,981	3,388,842	3,361,927.1	96.34
Male	449,273	576,002	3,578,839	3,544,728.2	125.54
Unknown	40	46	559	351.9	71.56

<sup>1</sup>IP = inpatient hospital stay care setting  
ED = emergency department care setting  
AV = ambulatory visit care setting

**Table 4. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year**

Year	New Members with Event	New Event Episodes	Eligible Members	Member-Years	Incidence per 1,000 Eligible Members
<b>RSV Diagnosis in IP, ED, or AV Care Setting<sup>1</sup></b>					
2008	12,343	12,839	1,893,955	1,041,261.6	6.52
2009	11,771	12,138	1,761,806	984,582.2	6.68
2010	11,727	12,004	1,604,943	902,537.8	7.31
2011	12,265	12,531	1,497,263	842,322.3	8.19
2012	13,278	13,577	1,542,703	867,914.2	8.61
2013	13,028	13,279	1,545,593	856,060.7	8.43
2014	10,313	10,520	1,552,488	860,333.4	6.64
2015	6,645	6,741	1,225,954	551,994.9	5.42
<b>RSV Diagnosis in IP or ED Care Setting or Two RSV Diagnoses in AV Care Setting<sup>1</sup></b>					
2008	6,353	6,398	1,893,955	1,041,261.6	3.35
2009	5,852	5,894	1,761,806	984,582.2	3.32
2010	5,910	5,941	1,604,943	902,537.8	3.68
2011	6,153	6,179	1,497,263	842,322.3	4.11
2012	6,331	6,362	1,542,703	867,914.2	4.10
2013	6,247	6,278	1,545,593	856,060.7	4.04
2014	4,926	4,956	1,552,488	860,333.4	3.17
2015	3,043	3,051	1,225,954	551,994.9	2.48
<b>Polymerase Chain Reaction (PCR) Lab Test for RSV or Antigen Lab Test for RSV</b>					
2008	5,234	5,456	1,893,955	1,041,261.6	2.76
2009	9,777	10,187	1,761,806	984,582.2	5.55
2010	12,186	12,704	1,604,943	902,537.8	7.59
2011	11,464	12,035	1,497,263	842,322.3	7.66
2012	13,686	14,496	1,542,703	867,914.2	8.87
2013	13,862	14,658	1,545,593	856,060.7	8.97
2014	15,424	16,318	1,552,488	860,333.4	9.94
2015	7,709	7,946	1,225,954	551,994.9	6.29
<b>PCR Lab Test for RSV</b>					
2008	2,611	2,675	1,893,955	1,041,261.6	1.38
2009	7,012	7,197	1,761,806	984,582.2	3.98
2010	9,838	10,231	1,604,943	902,537.8	6.13
2011	9,021	9,467	1,497,263	842,322.3	6.02
2012	11,255	11,931	1,542,703	867,914.2	7.30
2013	11,430	12,103	1,545,593	856,060.7	7.40
2014	13,334	14,113	1,552,488	860,333.4	8.59
2015	6,359	6,557	1,225,954	551,994.9	5.19

**Table 4. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year**

Year	New Members with Event	New Event Episodes	Eligible Members	Member-Years	Incidence per 1,000 Eligible Members
<b>Antigen Lab Test for RSV</b>					
2008	2,635	2,791	1,893,955	1,041,261.6	1.39
2009	2,802	3,013	1,761,806	984,582.2	1.59
2010	2,419	2,539	1,604,943	902,537.8	1.51
2011	2,528	2,639	1,497,263	842,322.3	1.69
2012	2,523	2,624	1,542,703	867,914.2	1.64
2013	2,550	2,642	1,545,593	856,060.7	1.65
2014	2,207	2,288	1,552,488	860,333.4	1.42
2015	1,400	1,431	1,225,954	551,994.9	1.14
<b>Synagis Dispensing or Procedure</b>					
2008	6,843	9,049	1,893,955	1,041,261.6	3.61
2009	3,585	4,492	1,761,806	984,582.2	2.03
2010	3,417	4,055	1,604,943	902,537.8	2.13
2011	3,474	4,141	1,497,263	842,322.3	2.32
2012	3,658	4,125	1,542,703	867,914.2	2.37
2013	3,558	3,847	1,545,593	856,060.7	2.30
2014	2,569	2,820	1,552,488	860,333.4	1.65
2015	375	392	1,225,954	551,994.9	0.31
<b>Bronchiolitis Diagnosis</b>					
2008	122,316	141,205	1,893,955	1,041,261.6	64.58
2009	119,785	138,585	1,761,806	984,582.2	67.99
2010	114,882	131,512	1,604,943	902,537.8	71.58
2011	110,327	126,297	1,497,263	842,322.3	73.69
2012	115,928	131,912	1,542,703	867,914.2	75.15
2013	108,907	124,150	1,545,593	856,060.7	70.46
2014	97,269	110,937	1,552,488	860,333.4	62.65
2015	66,587	74,431	1,225,954	551,994.9	54.31

<sup>1</sup>IP = inpatient hospital stay care setting  
 ED = emergency department care setting  
 AV = ambulatory visit care setting

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

Year-Month	New Members with Event	New Event Episodes	Eligible Members	Member-Years	Incidence per 1,000 Eligible Members
<b>RSV Diagnosis in IP, ED, or AV Care Setting<sup>1</sup></b>					
2008					
January	4,095	4,095	1,103,735	89,503.7	3.71
February	3,041	3,041	1,095,123	83,542.6	2.78
March	1,158	1,158	1,096,651	89,183.8	1.06
April	422	422	1,092,641	86,088.5	0.39
May	163	163	1,090,385	88,623.6	0.15
June	84	84	1,084,859	85,426.5	0.08
July	48	48	1,085,430	88,158.4	0.04
August	83	83	1,083,775	87,950.0	0.08
September	162	162	1,078,041	84,837.8	0.15
October	317	317	1,075,144	87,385.1	0.29
November	930	930	1,065,191	84,200.6	0.87
December	2,336	2,336	1,060,052	86,361.1	2.20
2009					
January	3,452	3,452	1,066,744	86,699.1	3.24
February	3,019	3,019	1,052,497	77,674.7	2.87
March	1,467	1,467	1,049,582	85,364.6	1.40
April	496	496	1,041,394	82,117.5	0.48
May	169	169	1,036,151	84,322.7	0.16
June	94	94	1,029,871	81,206.3	0.09
July	75	75	1,025,625	83,316.5	0.07
August	88	88	1,019,419	82,811.0	0.09
September	167	167	1,012,390	79,714.5	0.16
October	324	324	1,005,429	81,844.8	0.32
November	770	770	995,989	78,760.2	0.77
December	2,017	2,017	989,737	80,750.3	2.04
2010					
January	3,328	3,328	970,199	78,927.4	3.43
February	3,492	3,492	959,983	70,885.4	3.64
March	1,792	1,792	956,955	77,911.9	1.87
April	439	439	949,748	74,922.8	0.46
May	156	156	945,138	77,051.8	0.17
June	90	90	943,582	74,309.3	0.10
July	49	49	939,388	76,448.2	0.05
August	81	81	934,557	76,048.1	0.09
September	115	115	931,218	73,262.0	0.12
October	242	242	924,441	75,334.5	0.26
November	601	601	918,709	72,649.7	0.65
December	1,619	1,619	916,375	74,786.8	1.77

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

<b>Year-Month</b>	<b>New Members with</b>		<b>Eligible</b>	<b>Member-Years</b>	<b>Incidence per 1,000</b>
	<b>Event</b>	<b>New Event Episodes</b>	<b>Members</b>		<b>Eligible Members</b>
<b>2011</b>					
January	2,804	2,804	893,207	72,772.1	3.14
February	3,597	3,597	885,979	65,465.6	4.06
March	2,615	2,615	886,988	72,188.6	2.95
April	694	694	881,968	69,577.4	0.79
May	217	217	880,394	71,686.2	0.25
June	60	60	879,074	69,227.4	0.07
July	45	45	876,104	71,257.2	0.05
August	67	67	877,672	71,199.3	0.08
September	121	121	874,617	68,796.1	0.14
October	278	278	871,246	70,940.0	0.32
November	614	614	868,297	68,585.0	0.71
December	1,419	1,419	865,051	70,627.4	1.64
<b>2012</b>					
January	2,574	2,574	912,019	74,357.0	2.82
February	2,924	2,924	907,318	69,373.3	3.22
March	2,107	2,107	909,738	74,079.5	2.32
April	697	697	905,039	71,480.3	0.77
May	238	238	905,494	73,711.0	0.26
June	98	98	904,834	71,276.9	0.11
July	57	57	898,161	73,097.4	0.06
August	91	91	901,153	73,197.8	0.10
September	180	180	898,165	70,794.1	0.20
October	425	425	897,026	73,024.9	0.47
November	1,015	1,015	894,055	70,682.0	1.14
December	3,171	3,171	891,018	72,839.8	3.56
<b>2013</b>					
January	4,171	4,171	898,428	73,223.9	4.64
February	2,815	2,815	893,035	65,991.5	3.15
March	1,420	1,420	894,444	72,899.4	1.59
April	480	480	889,929	70,244.3	0.54
May	174	174	891,402	72,492.9	0.20
June	65	65	889,735	70,105.1	0.07
July	55	55	896,188	72,781.3	0.06
August	82	82	895,586	72,679.4	0.09
September	150	150	891,428	70,221.1	0.17
October	364	364	892,142	72,578.2	0.41
November	983	983	889,091	70,228.1	1.11
December	2,520	2,520	890,852	72,615.6	2.83

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

Year-Month	New Members with Event	New Event Episodes	Eligible Members	Member-Years	Incidence per 1,000 Eligible Members
<b>2014</b>					
January	2,955	2,955	897,903	73,235.3	3.29
February	2,156	2,156	895,830	66,210.6	2.41
March	1,363	1,363	897,196	73,143.2	1.52
April	496	496	899,948	71,047.5	0.55
May	186	186	902,570	73,521.4	0.21
June	86	86	901,553	71,133.7	0.10
July	49	49	902,404	73,344.5	0.05
August	57	57	896,362	72,662.8	0.06
September	115	115	893,422	70,356.7	0.13
October	297	297	893,537	72,726.6	0.33
November	676	676	889,193	70,336.7	0.76
December	2,084	2,084	888,996	72,614.4	2.34
<b>2015</b>					
January	2,417	2,417	798,301	65,124.3	3.03
February	2,394	2,394	795,910	58,882.6	3.01
March	1,197	1,197	800,686	65,307.7	1.49
April	401	401	799,692	61,342.2	0.50
May	99	99	776,496	63,277.4	0.13
June	56	56	776,739	61,252.0	0.07
July	42	42	733,150	59,610.2	0.06
August	48	48	732,602	59,548.8	0.07
September	87	87	731,848	57,649.7	0.12
<b>RSV Diagnosis in IP or ED Care Setting or Two RSV Diagnoses in AV Care Setting<sup>1</sup></b>					
<b>2008</b>					
January	2,135	2,135	1,103,735	89,503.7	1.93
February	1,574	1,574	1,095,123	83,542.6	1.44
March	583	583	1,096,651	89,183.8	0.53
April	184	184	1,092,641	86,088.5	0.17
May	67	67	1,090,385	88,623.6	0.06
June	35	35	1,084,859	85,426.5	0.03
July	20	20	1,085,430	88,158.4	0.02
August	27	27	1,083,775	87,950.0	0.02
September	68	68	1,078,041	84,837.8	0.06
October	127	127	1,075,144	87,385.1	0.12
November	447	447	1,065,191	84,200.6	0.42
December	1,131	1,131	1,060,052	86,361.1	1.07

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

<b>Year-Month</b>	<b>New Members with Event</b>	<b>New Event Episodes</b>	<b>Eligible Members</b>	<b>Member-Years</b>	<b>Incidence per 1,000 Eligible Members</b>
<b>2009</b>					
January	1,675	1,675	1,066,744	86,699.1	1.57
February	1,462	1,462	1,052,497	77,674.7	1.39
March	712	712	1,049,582	85,364.6	0.68
April	222	222	1,041,394	82,117.5	0.21
May	72	72	1,036,151	84,322.7	0.07
June	42	42	1,029,871	81,206.3	0.04
July	30	30	1,025,625	83,316.5	0.03
August	41	41	1,019,419	82,811.0	0.04
September	80	80	1,012,390	79,714.5	0.08
October	149	149	1,005,429	81,844.8	0.15
November	386	386	995,989	78,760.2	0.39
December	1,023	1,023	989,737	80,750.3	1.03
<b>2010</b>					
January	1,705	1,705	970,199	78,927.4	1.76
February	1,737	1,737	959,983	70,885.4	1.81
March	886	886	956,955	77,911.9	0.93
April	209	209	949,748	74,922.8	0.22
May	60	60	945,138	77,051.8	0.06
June	41	41	943,582	74,309.3	0.04
July	22	22	939,388	76,448.2	0.02
August	37	37	934,557	76,048.1	0.04
September	45	45	931,218	73,262.0	0.05
October	120	120	924,441	75,334.5	0.13
November	287	287	918,709	72,649.7	0.31
December	792	792	916,375	74,786.8	0.86
<b>2011</b>					
January	1,424	1,424	893,207	72,772.1	1.59
February	1,830	1,830	885,979	65,465.6	2.07
March	1,281	1,281	886,988	72,188.6	1.44
April	334	334	881,968	69,577.4	0.38
May	104	104	880,394	71,686.2	0.12
June	27	27	879,074	69,227.4	0.03
July	17	17	876,104	71,257.2	0.02
August	32	32	877,672	71,199.3	0.04
September	55	55	874,617	68,796.1	0.06
October	126	126	871,246	70,940.0	0.14
November	276	276	868,297	68,585.0	0.32
December	673	673	865,051	70,627.4	0.78

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

<b>Year-Month</b>	<b>New Members with</b>		<b>Eligible</b>	<b>Member-Years</b>	<b>Incidence per 1,000</b>
	<b>Event</b>	<b>New Event Episodes</b>	<b>Members</b>		<b>Eligible Members</b>
<b>2012</b>					
January	1,186	1,186	912,019	74,357.0	1.30
February	1,354	1,354	907,318	69,373.3	1.49
March	964	964	909,738	74,079.5	1.06
April	351	351	905,039	71,480.3	0.39
May	115	115	905,494	73,711.0	0.13
June	36	36	904,834	71,276.9	0.04
July	35	35	898,161	73,097.4	0.04
August	44	44	901,153	73,197.8	0.05
September	71	71	898,165	70,794.1	0.08
October	181	181	897,026	73,024.9	0.20
November	466	466	894,055	70,682.0	0.52
December	1,559	1,559	891,018	72,839.8	1.75
<b>2013</b>					
January	1,956	1,956	898,428	73,223.9	2.18
February	1,369	1,369	893,035	65,991.5	1.53
March	695	695	894,444	72,899.4	0.78
April	235	235	889,929	70,244.3	0.26
May	78	78	891,402	72,492.9	0.09
June	27	27	889,735	70,105.1	0.03
July	22	22	896,188	72,781.3	0.02
August	44	44	895,586	72,679.4	0.05
September	63	63	891,428	70,221.1	0.07
October	167	167	892,142	72,578.2	0.19
November	445	445	889,091	70,228.1	0.50
December	1,177	1,177	890,852	72,615.6	1.32
<b>2014</b>					
January	1,340	1,340	897,903	73,235.3	1.49
February	992	992	895,830	66,210.6	1.11
March	654	654	897,196	73,143.2	0.73
April	252	252	899,948	71,047.5	0.28
May	103	103	902,570	73,521.4	0.11
June	44	44	901,553	71,133.7	0.05
July	24	24	902,404	73,344.5	0.03
August	23	23	896,362	72,662.8	0.03
September	54	54	893,422	70,356.7	0.06
October	153	153	893,537	72,726.6	0.17
November	322	322	889,193	70,336.7	0.36
December	995	995	888,996	72,614.4	1.12

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

Year-Month	New Members with		Eligible Members	Member-Years	Incidence per 1,000 Eligible Members
	Event	New Event Episodes			
<b>2015</b>					
January	1,113	1,113	798,301	65,124.3	1.39
February	1,065	1,065	795,910	58,882.6	1.34
March	558	558	800,686	65,307.7	0.70
April	178	178	799,692	61,342.2	0.22
May	50	50	776,496	63,277.4	0.06
June	24	24	776,739	61,252.0	0.03
July	17	17	733,150	59,610.2	0.02
August	21	21	732,602	59,548.8	0.03
September	25	25	731,848	57,649.7	0.03
<b>Polymerase Chain Reaction (PCR) Lab Test for RSV or Antigen Lab Test for RSV</b>					
<b>2008</b>					
January	784	784	1,103,735	89,503.7	0.71
February	759	759	1,095,123	83,542.6	0.69
March	589	589	1,096,651	89,183.8	0.54
April	367	367	1,092,641	86,088.5	0.34
May	312	312	1,090,385	88,623.6	0.29
June	293	293	1,084,859	85,426.5	0.27
July	253	253	1,085,430	88,158.4	0.23
August	251	251	1,083,775	87,950.0	0.23
September	307	307	1,078,041	84,837.8	0.28
October	395	395	1,075,144	87,385.1	0.37
November	473	473	1,065,191	84,200.6	0.44
December	673	673	1,060,052	86,361.1	0.63
<b>2009</b>					
January	798	798	1,066,744	86,699.1	0.75
February	785	785	1,052,497	77,674.7	0.75
March	717	717	1,049,582	85,364.6	0.68
April	585	585	1,041,394	82,117.5	0.56
May	673	673	1,036,151	84,322.7	0.65
June	475	475	1,029,871	81,206.3	0.46
July	381	381	1,025,625	83,316.5	0.37
August	533	533	1,019,419	82,811.0	0.52
September	1,050	1,050	1,012,390	79,714.5	1.04
October	1,604	1,604	1,005,429	81,844.8	1.60
November	1,469	1,469	995,989	78,760.2	1.47
December	1,117	1,117	989,737	80,750.3	1.13

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

Year-Month	New Members with		Eligible Members	Member-Years	Incidence per 1,000 Eligible Members
	Event	New Event Episodes			
2010					
January	999	999	970,199	78,927.4	1.03
February	990	990	959,983	70,885.4	1.03
March	891	891	956,955	77,911.9	0.93
April	635	635	949,748	74,922.8	0.67
May	546	546	945,138	77,051.8	0.58
June	686	686	943,582	74,309.3	0.73
July	874	874	939,388	76,448.2	0.93
August	987	987	934,557	76,048.1	1.06
September	1,192	1,192	931,218	73,262.0	1.28
October	1,231	1,231	924,441	75,334.5	1.33
November	1,753	1,753	918,709	72,649.7	1.91
December	1,920	1,920	916,375	74,786.8	2.10
2011					
January	1,749	1,749	893,207	72,772.1	1.96
February	1,628	1,628	885,979	65,465.6	1.84
March	1,538	1,538	886,988	72,188.6	1.73
April	1,049	1,049	881,968	69,577.4	1.19
May	725	725	880,394	71,686.2	0.82
June	617	617	879,074	69,227.4	0.70
July	505	505	876,104	71,257.2	0.58
August	574	574	877,672	71,199.3	0.65
September	655	655	874,617	68,796.1	0.75
October	871	871	871,246	70,940.0	1.00
November	967	967	868,297	68,585.0	1.11
December	1,157	1,157	865,051	70,627.4	1.34
2012					
January	1,364	1,364	912,019	74,357.0	1.50
February	1,449	1,449	907,318	69,373.3	1.60
March	1,260	1,260	909,738	74,079.5	1.39
April	1,036	1,036	905,039	71,480.3	1.14
May	1,022	1,022	905,494	73,711.0	1.13
June	907	907	904,834	71,276.9	1.00
July	867	867	898,161	73,097.4	0.97
August	1,006	1,006	901,153	73,197.8	1.12
September	1,057	1,057	898,165	70,794.1	1.18
October	1,293	1,293	897,026	73,024.9	1.44
November	1,383	1,383	894,055	70,682.0	1.55
December	1,852	1,852	891,018	72,839.8	2.08

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

<b>Year-Month</b>	<b>New Members with Event</b>	<b>New Event Episodes</b>	<b>Eligible Members</b>	<b>Member-Years</b>	<b>Incidence per 1,000 Eligible Members</b>
<b>2013</b>					
January	1,778	1,778	898,428	73,223.9	1.98
February	1,403	1,403	893,035	65,991.5	1.57
March	1,168	1,168	894,444	72,899.4	1.31
April	1,044	1,044	889,929	70,244.3	1.17
May	957	957	891,402	72,492.9	1.07
June	815	815	889,735	70,105.1	0.92
July	914	914	896,188	72,781.3	1.02
August	935	935	895,586	72,679.4	1.04
September	1,162	1,162	891,428	70,221.1	1.30
October	1,384	1,384	892,142	72,578.2	1.55
November	1,471	1,471	889,091	70,228.1	1.65
December	1,627	1,627	890,852	72,615.6	1.83
<b>2014</b>					
January	1,622	1,622	897,903	73,235.3	1.81
February	1,401	1,401	895,830	66,210.6	1.56
March	1,219	1,219	897,196	73,143.2	1.36
April	1,187	1,187	899,948	71,047.5	1.32
May	1,362	1,362	902,570	73,521.4	1.51
June	1,306	1,306	901,553	71,133.7	1.45
July	1,149	1,149	902,404	73,344.5	1.27
August	1,115	1,115	896,362	72,662.8	1.24
September	1,235	1,235	893,422	70,356.7	1.38
October	1,376	1,376	893,537	72,726.6	1.54
November	1,379	1,379	889,193	70,336.7	1.55
December	1,967	1,967	888,996	72,614.4	2.21
<b>2015</b>					
January	1,433	1,433	798,301	65,124.3	1.80
February	1,221	1,221	795,910	58,882.6	1.53
March	1,118	1,118	800,686	65,307.7	1.40
April	973	973	799,692	61,342.2	1.22
May	794	794	776,496	63,277.4	1.02
June	623	623	776,739	61,252.0	0.80
July	537	537	733,150	59,610.2	0.73
August	555	555	732,602	59,548.8	0.76
September	692	692	731,848	57,649.7	0.95

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

Year-Month	New Members with		Eligible Members	Member-Years	Incidence per 1,000 Eligible Members
	Event	New Event Episodes			
<b>PCR Lab Test for RSV</b>					
2008					
January	316	316	1,103,735	89,503.7	0.29
February	285	285	1,095,123	83,542.6	0.26
March	234	234	1,096,651	89,183.8	0.21
April	182	182	1,092,641	86,088.5	0.17
May	180	180	1,090,385	88,623.6	0.17
June	191	191	1,084,859	85,426.5	0.18
July	152	152	1,085,430	88,158.4	0.14
August	143	143	1,083,775	87,950.0	0.13
September	184	184	1,078,041	84,837.8	0.17
October	222	222	1,075,144	87,385.1	0.21
November	252	252	1,065,191	84,200.6	0.24
December	334	334	1,060,052	86,361.1	0.32
2009					
January	388	388	1,066,744	86,699.1	0.36
February	434	434	1,052,497	77,674.7	0.41
March	391	391	1,049,582	85,364.6	0.37
April	382	382	1,041,394	82,117.5	0.37
May	506	506	1,036,151	84,322.7	0.49
June	307	307	1,029,871	81,206.3	0.30
July	252	252	1,025,625	83,316.5	0.25
August	360	360	1,019,419	82,811.0	0.35
September	780	780	1,012,390	79,714.5	0.77
October	1,301	1,301	1,005,429	81,844.8	1.29
November	1,244	1,244	995,989	78,760.2	1.25
December	852	852	989,737	80,750.3	0.86
2010					
January	700	700	970,199	78,927.4	0.72
February	698	698	959,983	70,885.4	0.73
March	628	628	956,955	77,911.9	0.66
April	449	449	949,748	74,922.8	0.47
May	403	403	945,138	77,051.8	0.43
June	558	558	943,582	74,309.3	0.59
July	736	736	939,388	76,448.2	0.78
August	840	840	934,557	76,048.1	0.90
September	1,000	1,000	931,218	73,262.0	1.07
October	1,044	1,044	924,441	75,334.5	1.13
November	1,542	1,542	918,709	72,649.7	1.68
December	1,633	1,633	916,375	74,786.8	1.78

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

<b>Year-Month</b>	<b>New Members with Event</b>	<b>New Event Episodes</b>	<b>Eligible Members</b>	<b>Member-Years</b>	<b>Incidence per 1,000 Eligible Members</b>
<b>2011</b>					
January	1,430	1,430	893,207	72,772.1	1.60
February	1,287	1,287	885,979	65,465.6	1.45
March	1,246	1,246	886,988	72,188.6	1.40
April	859	859	881,968	69,577.4	0.97
May	566	566	880,394	71,686.2	0.64
June	462	462	879,074	69,227.4	0.53
July	341	341	876,104	71,257.2	0.39
August	415	415	877,672	71,199.3	0.47
September	494	494	874,617	68,796.1	0.56
October	681	681	871,246	70,940.0	0.78
November	773	773	868,297	68,585.0	0.89
December	913	913	865,051	70,627.4	1.06
<b>2012</b>					
January	1,114	1,114	912,019	74,357.0	1.22
February	1,175	1,175	907,318	69,373.3	1.30
March	1,013	1,013	909,738	74,079.5	1.11
April	834	834	905,039	71,480.3	0.92
May	834	834	905,494	73,711.0	0.92
June	737	737	904,834	71,276.9	0.81
July	706	706	898,161	73,097.4	0.79
August	805	805	901,153	73,197.8	0.89
September	891	891	898,165	70,794.1	0.99
October	1,104	1,104	897,026	73,024.9	1.23
November	1,173	1,173	894,055	70,682.0	1.31
December	1,545	1,545	891,018	72,839.8	1.73
<b>2013</b>					
January	1,439	1,439	898,428	73,223.9	1.60
February	1,175	1,175	893,035	65,991.5	1.32
March	958	958	894,444	72,899.4	1.07
April	845	845	889,929	70,244.3	0.95
May	792	792	891,402	72,492.9	0.89
June	666	666	889,735	70,105.1	0.75
July	718	718	896,188	72,781.3	0.80
August	757	757	895,586	72,679.4	0.85
September	961	961	891,428	70,221.1	1.08
October	1,182	1,182	892,142	72,578.2	1.32
November	1,244	1,244	889,091	70,228.1	1.40
December	1,366	1,366	890,852	72,615.6	1.53

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

<b>Year-Month</b>	<b>New Members with Event</b>	<b>New Event Episodes</b>	<b>Eligible Members</b>	<b>Member-Years</b>	<b>Incidence per 1,000 Eligible Members</b>
<b>2014</b>					
January	1,356	1,356	897,903	73,235.3	1.51
February	1,191	1,191	895,830	66,210.6	1.33
March	1,031	1,031	897,196	73,143.2	1.15
April	1,021	1,021	899,948	71,047.5	1.13
May	1,195	1,195	902,570	73,521.4	1.32
June	1,176	1,176	901,553	71,133.7	1.30
July	981	981	902,404	73,344.5	1.09
August	938	938	896,362	72,662.8	1.05
September	1,083	1,083	893,422	70,356.7	1.21
October	1,197	1,197	893,537	72,726.6	1.34
November	1,223	1,223	889,193	70,336.7	1.38
December	1,721	1,721	888,996	72,614.4	1.94
<b>2015</b>					
January	1,226	1,226	798,301	65,124.3	1.54
February	1,038	1,038	795,910	58,882.6	1.30
March	932	932	800,686	65,307.7	1.16
April	837	837	799,692	61,342.2	1.05
May	671	671	776,496	63,277.4	0.86
June	491	491	776,739	61,252.0	0.63
July	394	394	733,150	59,610.2	0.54
August	435	435	732,602	59,548.8	0.59
September	533	533	731,848	57,649.7	0.73
<b>Antigen Lab Test for RSV</b>					
<b>2008</b>					
January	468	468	1,103,735	89,503.7	0.42
February	475	475	1,095,123	83,542.6	0.43
March	357	357	1,096,651	89,183.8	0.33
April	186	186	1,092,641	86,088.5	0.17
May	132	132	1,090,385	88,623.6	0.12
June	102	102	1,084,859	85,426.5	0.09
July	101	101	1,085,430	88,158.4	0.09
August	109	109	1,083,775	87,950.0	0.10
September	124	124	1,078,041	84,837.8	0.12
October	174	174	1,075,144	87,385.1	0.16
November	223	223	1,065,191	84,200.6	0.21
December	340	340	1,060,052	86,361.1	0.32

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

<b>Year-Month</b>	<b>New Members with Event</b>	<b>New Event Episodes</b>	<b>Eligible Members</b>	<b>Member-Years</b>	<b>Incidence per 1,000 Eligible Members</b>
<b>2009</b>					
January	411	411	1,066,744	86,699.1	0.39
February	351	351	1,052,497	77,674.7	0.33
March	326	326	1,049,582	85,364.6	0.31
April	204	204	1,041,394	82,117.5	0.20
May	169	169	1,036,151	84,322.7	0.16
June	170	170	1,029,871	81,206.3	0.17
July	130	130	1,025,625	83,316.5	0.13
August	175	175	1,019,419	82,811.0	0.17
September	270	270	1,012,390	79,714.5	0.27
October	309	309	1,005,429	81,844.8	0.31
November	230	230	995,989	78,760.2	0.23
December	268	268	989,737	80,750.3	0.27
<b>2010</b>					
January	303	303	970,199	78,927.4	0.31
February	302	302	959,983	70,885.4	0.31
March	268	268	956,955	77,911.9	0.28
April	192	192	949,748	74,922.8	0.20
May	148	148	945,138	77,051.8	0.16
June	131	131	943,582	74,309.3	0.14
July	148	148	939,388	76,448.2	0.16
August	155	155	934,557	76,048.1	0.17
September	197	197	931,218	73,262.0	0.21
October	187	187	924,441	75,334.5	0.20
November	214	214	918,709	72,649.7	0.23
December	294	294	916,375	74,786.8	0.32
<b>2011</b>					
January	327	327	893,207	72,772.1	0.37
February	346	346	885,979	65,465.6	0.39
March	302	302	886,988	72,188.6	0.34
April	196	196	881,968	69,577.4	0.22
May	166	166	880,394	71,686.2	0.19
June	158	158	879,074	69,227.4	0.18
July	173	173	876,104	71,257.2	0.20
August	164	164	877,672	71,199.3	0.19
September	165	165	874,617	68,796.1	0.19
October	195	195	871,246	70,940.0	0.22
November	199	199	868,297	68,585.0	0.23
December	248	248	865,051	70,627.4	0.29

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

<b>Year-Month</b>	<b>New Members with Event</b>	<b>New Event Episodes</b>	<b>Eligible Members</b>	<b>Member-Years</b>	<b>Incidence per 1,000 Eligible Members</b>
<b>2012</b>					
January	255	255	912,019	74,357.0	0.28
February	276	276	907,318	69,373.3	0.30
March	253	253	909,738	74,079.5	0.28
April	206	206	905,039	71,480.3	0.23
May	193	193	905,494	73,711.0	0.21
June	171	171	904,834	71,276.9	0.19
July	169	169	898,161	73,097.4	0.19
August	203	203	901,153	73,197.8	0.23
September	171	171	898,165	70,794.1	0.19
October	196	196	897,026	73,024.9	0.22
November	215	215	894,055	70,682.0	0.24
December	316	316	891,018	72,839.8	0.35
<b>2013</b>					
January	351	351	898,428	73,223.9	0.39
February	236	236	893,035	65,991.5	0.26
March	214	214	894,444	72,899.4	0.24
April	206	206	889,929	70,244.3	0.23
May	170	170	891,402	72,492.9	0.19
June	153	153	889,735	70,105.1	0.17
July	206	206	896,188	72,781.3	0.23
August	180	180	895,586	72,679.4	0.20
September	206	206	891,428	70,221.1	0.23
October	211	211	892,142	72,578.2	0.24
November	238	238	889,091	70,228.1	0.27
December	271	271	890,852	72,615.6	0.30
<b>2014</b>					
January	276	276	897,903	73,235.3	0.31
February	216	216	895,830	66,210.6	0.24
March	192	192	897,196	73,143.2	0.21
April	174	174	899,948	71,047.5	0.19
May	178	178	902,570	73,521.4	0.20
June	137	137	901,553	71,133.7	0.15
July	177	177	902,404	73,344.5	0.20
August	183	183	896,362	72,662.8	0.20
September	156	156	893,422	70,356.7	0.17
October	180	180	893,537	72,726.6	0.20
November	164	164	889,193	70,336.7	0.18
December	255	255	888,996	72,614.4	0.29

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

Year-Month	New Members with		Eligible Members	Member-Years	Incidence per 1,000 Eligible Members
	Event	New Event Episodes			
<b>2015</b>					
January	216	216	798,301	65,124.3	0.27
February	189	189	795,910	58,882.6	0.24
March	191	191	800,686	65,307.7	0.24
April	141	141	799,692	61,342.2	0.18
May	124	124	776,496	63,277.4	0.16
June	137	137	776,739	61,252.0	0.18
July	148	148	733,150	59,610.2	0.20
August	123	123	732,602	59,548.8	0.17
September	162	162	731,848	57,649.7	0.22
<b>Synagis Dispensing or Procedure</b>					
<b>2008</b>					
January	2,106	2,106	1,103,735	89,503.7	1.91
February	1,339	1,339	1,095,123	83,542.6	1.22
March	1,229	1,229	1,096,651	89,183.8	1.12
April	411	411	1,092,641	86,088.5	0.38
May	8	8	1,090,385	88,623.6	0.01
June	9	9	1,084,859	85,426.5	0.01
July	8	8	1,085,430	88,158.4	0.01
August	23	23	1,083,775	87,950.0	0.02
September	425	425	1,078,041	84,837.8	0.39
October	1,538	1,538	1,075,144	87,385.1	1.43
November	975	975	1,065,191	84,200.6	0.92
December	978	978	1,060,052	86,361.1	0.92
<b>2009</b>					
January	834	834	1,066,744	86,699.1	0.78
February	679	679	1,052,497	77,674.7	0.65
March	545	545	1,049,582	85,364.6	0.52
April	355	355	1,041,394	82,117.5	0.34
May	3	3	1,036,151	84,322.7	0.00
June	0	0	1,029,871	81,206.3	0.00
July	1	1	1,025,625	83,316.5	0.00
August	2	2	1,019,419	82,811.0	0.00
September	13	13	1,012,390	79,714.5	0.01
October	668	668	1,005,429	81,844.8	0.66
November	877	877	995,989	78,760.2	0.88
December	515	515	989,737	80,750.3	0.52

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

<b>Year-Month</b>	<b>New Members with</b>		<b>Eligible</b>	<b>Member-Years</b>	<b>Incidence per 1,000</b>
	<b>Event</b>	<b>New Event Episodes</b>	<b>Members</b>		<b>Eligible Members</b>
<b>2010</b>					
January	572	572	970,199	78,927.4	0.59
February	435	435	959,983	70,885.4	0.45
March	379	379	956,955	77,911.9	0.40
April	176	176	949,748	74,922.8	0.19
May	1	1	945,138	77,051.8	0.00
June	3	3	943,582	74,309.3	0.00
July	3	3	939,388	76,448.2	0.00
August	14	14	934,557	76,048.1	0.01
September	17	17	931,218	73,262.0	0.02
October	726	726	924,441	75,334.5	0.79
November	1,178	1,178	918,709	72,649.7	1.28
December	551	551	916,375	74,786.8	0.60
<b>2011</b>					
January	640	640	893,207	72,772.1	0.72
February	445	445	885,979	65,465.6	0.50
March	432	432	886,988	72,188.6	0.49
April	212	212	881,968	69,577.4	0.24
May	0	0	880,394	71,686.2	0.00
June	2	2	879,074	69,227.4	0.00
July	0	0	876,104	71,257.2	0.00
August	10	10	877,672	71,199.3	0.01
September	23	23	874,617	68,796.1	0.03
October	735	735	871,246	70,940.0	0.84
November	1,025	1,025	868,297	68,585.0	1.18
December	617	617	865,051	70,627.4	0.71
<b>2012</b>					
January	761	761	912,019	74,357.0	0.83
February	562	562	907,318	69,373.3	0.62
March	436	436	909,738	74,079.5	0.48
April	139	139	905,039	71,480.3	0.15
May	0	0	905,494	73,711.0	0.00
June	0	0	904,834	71,276.9	0.00
July	2	2	898,161	73,097.4	0.00
August	17	17	901,153	73,197.8	0.02
September	15	15	898,165	70,794.1	0.02
October	891	891	897,026	73,024.9	0.99
November	860	860	894,055	70,682.0	0.96
December	442	442	891,018	72,839.8	0.50

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

<b>Year-Month</b>	<b>New Members with Event</b>	<b>New Event Episodes</b>	<b>Eligible Members</b>	<b>Member-Years</b>	<b>Incidence per 1,000 Eligible Members</b>
<b>2013</b>					
January	562	562	898,428	73,223.9	0.63
February	364	364	893,035	65,991.5	0.41
March	303	303	894,444	72,899.4	0.34
April	101	101	889,929	70,244.3	0.11
May	1	1	891,402	72,492.9	0.00
June	2	2	889,735	70,105.1	0.00
July	3	3	896,188	72,781.3	0.00
August	91	91	895,586	72,679.4	0.10
September	98	98	891,428	70,221.1	0.11
October	964	964	892,142	72,578.2	1.08
November	834	834	889,091	70,228.1	0.94
December	524	524	890,852	72,615.6	0.59
<b>2014</b>					
January	534	534	897,903	73,235.3	0.59
February	436	436	895,830	66,210.6	0.49
March	342	342	897,196	73,143.2	0.38
April	73	73	899,948	71,047.5	0.08
May	4	4	902,570	73,521.4	0.00
June	0	0	901,553	71,133.7	0.00
July	1	1	902,404	73,344.5	0.00
August	68	68	896,362	72,662.8	0.08
September	80	80	893,422	70,356.7	0.09
October	195	195	893,537	72,726.6	0.22
November	844	844	889,193	70,336.7	0.95
December	243	243	888,996	72,614.4	0.27
<b>2015</b>					
January	156	156	798,301	65,124.3	0.20
February	122	122	795,910	58,882.6	0.15
March	92	92	800,686	65,307.7	0.11
April	14	14	799,692	61,342.2	0.02
May	0	0	776,496	63,277.4	0.00
June	0	0	776,739	61,252.0	0.00
July	1	1	733,150	59,610.2	0.00
August	1	1	732,602	59,548.8	0.00
September	6	6	731,848	57,649.7	0.01

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

Year-Month	New Members with Event	New Event Episodes	Eligible Members	Member-Years	Incidence per 1,000 Eligible Members
<b>Bronchiolitis Diagnosis</b>					
2008					
January	32,349	32,349	1,103,735	89,503.7	29.31
February	22,815	22,815	1,095,123	83,542.6	20.83
March	12,855	12,855	1,096,651	89,183.8	11.72
April	9,417	9,417	1,092,641	86,088.5	8.62
May	6,220	6,220	1,090,385	88,623.6	5.70
June	4,582	4,582	1,084,859	85,426.5	4.22
July	2,398	2,398	1,085,430	88,158.4	2.21
August	3,649	3,649	1,083,775	87,950.0	3.37
September	5,610	5,610	1,078,041	84,837.8	5.20
October	7,230	7,230	1,075,144	87,385.1	6.72
November	11,508	11,508	1,065,191	84,200.6	10.80
December	22,572	22,572	1,060,052	86,361.1	21.29
2009					
January	28,107	28,107	1,066,744	86,699.1	26.35
February	24,646	24,646	1,052,497	77,674.7	23.42
March	16,036	16,036	1,049,582	85,364.6	15.28
April	10,746	10,746	1,041,394	82,117.5	10.32
May	5,913	5,913	1,036,151	84,322.7	5.71
June	4,347	4,347	1,029,871	81,206.3	4.22
July	2,398	2,398	1,025,625	83,316.5	2.34
August	3,891	3,891	1,019,419	82,811.0	3.82
September	5,892	5,892	1,012,390	79,714.5	5.82
October	7,497	7,497	1,005,429	81,844.8	7.46
November	10,756	10,756	995,989	78,760.2	10.80
December	18,356	18,356	989,737	80,750.3	18.55
2010					
January	26,010	26,010	970,199	78,927.4	26.81
February	28,066	28,066	959,983	70,885.4	29.24
March	18,096	18,096	956,955	77,911.9	18.91
April	8,539	8,539	949,748	74,922.8	8.99
May	5,470	5,470	945,138	77,051.8	5.79
June	4,296	4,296	943,582	74,309.3	4.55
July	2,340	2,340	939,388	76,448.2	2.49
August	3,253	3,253	934,557	76,048.1	3.48
September	4,836	4,836	931,218	73,262.0	5.19
October	6,091	6,091	924,441	75,334.5	6.59
November	9,279	9,279	918,709	72,649.7	10.10
December	15,236	15,236	916,375	74,786.8	16.63

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

<b>Year-Month</b>	<b>New Members with Event</b>	<b>New Event Episodes</b>	<b>Eligible Members</b>	<b>Member-Years</b>	<b>Incidence per 1,000 Eligible Members</b>
<b>2011</b>					
January	21,595	21,595	893,207	72,772.1	24.18
February	23,844	23,844	885,979	65,465.6	26.91
March	18,839	18,839	886,988	72,188.6	21.24
April	9,994	9,994	881,968	69,577.4	11.33
May	5,916	5,916	880,394	71,686.2	6.72
June	3,724	3,724	879,074	69,227.4	4.24
July	1,879	1,879	876,104	71,257.2	2.14
August	2,763	2,763	877,672	71,199.3	3.15
September	4,496	4,496	874,617	68,796.1	5.14
October	6,643	6,643	871,246	70,940.0	7.62
November	10,480	10,480	868,297	68,585.0	12.07
December	16,124	16,124	865,051	70,627.4	18.64
<b>2012</b>					
January	22,620	22,620	912,019	74,357.0	24.80
February	24,110	24,110	907,318	69,373.3	26.57
March	16,306	16,306	909,738	74,079.5	17.92
April	8,221	8,221	905,039	71,480.3	9.08
May	4,869	4,869	905,494	73,711.0	5.38
June	3,568	3,568	904,834	71,276.9	3.94
July	2,434	2,434	898,161	73,097.4	2.71
August	3,433	3,433	901,153	73,197.8	3.81
September	5,153	5,153	898,165	70,794.1	5.74
October	7,363	7,363	897,026	73,024.9	8.21
November	11,726	11,726	894,055	70,682.0	13.12
December	22,109	22,109	891,018	72,839.8	24.81
<b>2013</b>					
January	26,116	26,116	898,428	73,223.9	29.07
February	19,353	19,353	893,035	65,991.5	21.67
March	12,549	12,549	894,444	72,899.4	14.03
April	8,846	8,846	889,929	70,244.3	9.94
May	5,845	5,845	891,402	72,492.9	6.56
June	3,855	3,855	889,735	70,105.1	4.33
July	2,620	2,620	896,188	72,781.3	2.92
August	3,233	3,233	895,586	72,679.4	3.61
September	4,583	4,583	891,428	70,221.1	5.14
October	7,102	7,102	892,142	72,578.2	7.96
November	11,091	11,091	889,091	70,228.1	12.47
December	18,957	18,957	890,852	72,615.6	21.28

**Table 5. Summary of Pediatric Patients with Respiratory Syncytial Virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD) between January 1, 2008 and September 30, 2015, by Event and Year-Month**

<b>Year-Month</b>	<b>New Members with Event</b>	<b>New Event Episodes</b>	<b>Eligible Members</b>	<b>Member-Years</b>	<b>Incidence per 1,000 Eligible Members</b>
<b>2014</b>					
January	20,108	20,108	897,903	73,235.3	22.39
February	16,427	16,427	895,830	66,210.6	18.34
March	13,198	13,198	897,196	73,143.2	14.71
April	8,594	8,594	899,948	71,047.5	9.55
May	5,582	5,582	902,570	73,521.4	6.18
June	3,714	3,714	901,553	71,133.7	4.12
July	2,218	2,218	902,404	73,344.5	2.46
August	3,111	3,111	896,362	72,662.8	3.47
September	5,137	5,137	893,422	70,356.7	5.75
October	6,170	6,170	893,537	72,726.6	6.91
November	9,162	9,162	889,193	70,336.7	10.30
December	17,516	17,516	888,996	72,614.4	19.70
<b>2015</b>					
January	19,350	19,350	798,301	65,124.3	24.24
February	18,706	18,706	795,910	58,882.6	23.50
March	13,142	13,142	800,686	65,307.7	16.41
April	8,105	8,105	799,692	61,342.2	10.14
May	4,628	4,628	776,496	63,277.4	5.96
June	3,087	3,087	776,739	61,252.0	3.97
July	1,706	1,706	733,150	59,610.2	2.33
August	2,210	2,210	732,602	59,548.8	3.02
September	3,497	3,497	731,848	57,649.7	4.78

<sup>1</sup>IP = inpatient hospital stay care setting  
 ED = emergency department care setting  
 AV = ambulatory visit care setting

**Appendix A. Latest Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (August 7, 2016)**

DP ID	Start Date <sup>1</sup>	End Date <sup>1</sup>
DP01	1/1/2008	12/31/2014
DP02	1/1/2008	10/31/2014
DP03	1/1/2012	6/30/2015
DP04	1/1/2008	4/30/2015
DP05	1/1/2008	4/30/2014
DP06	1/1/2008	10/31/2014
DP07	1/1/2008	4/30/2014
DP08	1/1/2008	3/31/2015
DP09	1/1/2008	12/31/2014
DP10	1/1/2008	3/31/2015
DP11	1/1/2008	7/31/2014
DP12	1/1/2008	2/28/2015
DP13	1/1/2008	12/31/2012
DP14	1/1/2008	8/31/2014
DP15	1/1/2008	3/31/2015
DP16	1/1/2008	6/30/2012

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

**Appendix B. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4) and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>	<b>Code Category</b>
<b>Respiratory Syncytial Virus Diagnoses</b>			
079.6	Respiratory syncytial virus	ICD-9-CM	Diagnosis
480.1	Pneumonia due to respiratory syncytial virus	ICD-9-CM	Diagnosis
<b>Bronchiolitis Diagnoses</b>			
466.11	Acute bronchiolitis due to respiratory syncytial virus	ICD-9-CM	Diagnosis
466.19	Acute bronchiolitis due to other infectious organisms	ICD-9-CM	Diagnosis
<b>Lab Test for RSV</b>			
87798	Qualitative real-time polymerase chain reaction (RT-PCR)	CPT-4	Procedure
87899	Rapid antigen-detection test	CPT-4	Procedure
<b>Drug Dispensings and Procedures</b>			
S9562	Synagis	HCPCS	Procedure
C9003	Synagis	HCPCS	Procedure

### Appendix C. Specifications Defining Parameters used in this Request

In this request we used the Cohort Identification and Descriptive Analysis (CIDA) module, version 3.0.2 to investigate numbers of pediatric patients diagnosed and/or hospitalized with respiratory syncytial virus (RSV) and RSV-Related Events and Preventative Services in the Sentinel Distributed Database (SDD).

**Enrollment Gap:** 45 days  
**Query Period:** January 1, 2008 - September 30, 2015  
**Age Groups:** 0-2, 0-5, 3-5, 6-11, 6-17, 12-23, and 18-23 months  
**Coverage Requirement:** Drug and Medical  
**Pre-Exposure Enrollment Requirement:** 0 days

Scenario	Event/Index Date				Incidence Criteria			
	Incident Event	Care Setting	Principal Discharge Diagnosis	Combo	Cohort Definition	Washout (days)*	Incident with respect to:	Incidence Care Setting
1	RSV diagnosis	IP, ED, or AV	Any	N/A	All valid events	30	RSV diagnosis	Any
2	RSV diagnosis, or	IP or ED	Any	N/A	All valid events	30	RSV diagnosis	Any
	2 RSV diagnoses	AV	N/A	Diagnoses must occur within 14 days of each other, index date is date of the first diagnosis				
3	PCR lab test for RSV, or antigen lab test for RSV	Any	N/A	N/A	All valid events	30	PCR lab test for RSV, or antigen lab test for RSV	Any
4	PCR lab test for RSV	Any	N/A	N/A	All valid events	30	PCR lab test for RSV	Any
5	Antigen lab test for RSV	Any	N/A	N/A	All valid events	30	Antigen lab test for RSV	Any
6	Synagis dispensing or procedure	Any	N/A	N/A	All valid events	30	Synagis dispensing or procedure	Any
7	Bronchiolitis diagnosis	Any	Any	N/A	All valid events	30	Bronchiolitis diagnosis	Any

\*The washout will be done in the combination tool to avoid requiring pre-index enrollment.

International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) codes, National Drug Codes (NDCs), Current Procedural Terminology, Fourth Edition (CPT-4) codes, and Healthcare Common Procedure Coding System (HCPCS) codes are provided by Optum360. NDC codes are checked against First Data Bank's "National Drug Data File (NDDF®) Plus."