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

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

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

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

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Overview for Request cder_mpl1r_wp030_nsdp_v01

Request ID: cder_mpl1r_wp030_nsdp_v01

Request Description: FDA has requested execution of Modular Program #1 (MP1), version 2.0, to investigate incidence of antiviral drug use. This query was run against the Sentinel Distributed Database (SDD) for the time period of January 1, 2010 to December 31, 2015.

Sentinel Modular Program Tool Used: Cohort Identification and Descriptive Analysis (CIDA) tool, version 2.2.3.

Data Source: Data from January 1, 2010 to December 31, 2015 from 16 health plans contributing to the SDD are included in this report. This request was distributed on June 20, 2016. See Appendix A for a list of the latest dates of available data for each Data Partner.

Study Design: This request was designed to calculate background rates. The number of qualifying patients with the exposures of interest were calculated overall and stratified by age group, sex, year, and year-month.

Exposure of Interest: The exposures of interest were two influenza antiviral drugs (oseltamivir and zanamivir), which were defined using National Drug Codes (NDCs). Two forms of oseltamivir, capsule and powder, were separately examined. Please see Appendix B for generic and brand names.

Cohort Eligibility Criteria: Patients were required to be continuously enrolled in plans with either drug coverage only or both medical and drug coverage. Enrollment was required for 90 days prior to dispensing of the drug of interest, during which gaps in coverage of up to 45 days were allowed. All valid dispensing index dates during the query period were included and a gap of 10 days was allowed between dispensings to be considered part of the same episode. Patients who received any of the drugs of interest (i.e., oseltamivir, including capsule or powder, or zanamivir) in the 45 or 90 days prior to a dispensing of interest were excluded. The following age groups were included in the cohort: 0-1, 2-4, 5-9, 10-14, 19-21, 22-44, 45-64, 65-74, and 75+ years.

Limitations: Algorithms to define exposures are imperfect and, therefore, exposures may be misclassified. Please note that not all Data Partners have data through the end of 2015, and therefore 2015 data should be interpreted with caution. Please see Appendix A for a list of the latest dates of available data for each Data Partner.

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

Notes: Please contact the Sentinel Operations Center Query Fulfillment Team (production@mini-sentinel.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) Tool***

Amount Supplied - number of units (pills, tablets, vials) dispensed. Net amount per NDC per dispensing. This is equivalent to the "RxAmt" value in the MSCDM.

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). Along with the Principal Diagnosis Indicator, forms the Care Setting/PDX parameter.

Cohort Definition (drug/exposure) - indicates how the cohort will be defined: (1) 01: Cohort includes only the first valid incident treatment episode during the query period; (2) 02: Cohort includes all valid incident treatment episodes during the query period; (3) 03: Cohort includes all valid incident treatment episodes during the query period until an event occurs.

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 MP algorithm: (0) 0: Counts all occurrences of an HOI during an exposure episode; (1) 1: de-duplicates occurrences of the same HOI code and code type on the same day; (2) 2: de-duplicates occurrences of the same HOI group on the same day (e.g., de-duplicates at the group level).

Exposure Extension Period - number of days post treatment period in which the outcomes/events are counted for a treatment episode.

Exposure Episode Length - number of days after exposure initiation that is considered "exposed time."

Lookback Period (pre-existing condition) - number of days wherein a member is required to have evidence of pre-existing condition (diagnosis/procedure/drug dispensing).

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.

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.

Treatment Episode Truncation Indicator - indicates whether observation of the incident query code during follow-up requires truncation of valid treatment episodes. A value of Y indicates that the treatment episodes should be truncated at the first occurrence of an incident query code. A value of N indicates that the treatment episodes should not be truncated at the occurrence of the incident query code.

Users - number of members with exposure during the query period. Member must have no evidence of exposure(s) of interest (defined by incidence criteria) in the prior washout period. A user may only be counted once in a query period.

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

**incident treatment episodes must be incident to both the exposure and the event

Table 1a: Summary of Incident Influenza Antiviral Drug Use among Patients with Medical and Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug and Washout Period

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member- Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Incident Use of Oseltamivir Capsules (45 day washout)												
	1,978,276	2,102,885	2,114,557	12,062,113	23,524,293	33,082.7	101,947,808	219,957,555.4	19.40	6.10	1.07	5.70
Incident Use of Oseltamivir Capsules (90 day washout)												
	1,975,692	2,090,667	2,102,055	11,985,963	23,367,554	32,872.2	101,934,600	219,595,694.0	19.38	6.07	1.06	5.70
Incident Use of Oseltamivir Powder (45 day washout)												
	459,758	494,188	496,763	3,178,093	44,274,001	8,713.7	101,947,808	219,957,555.4	4.51	6.91	1.08	6.40
Incident Use of Oseltamivir Powder (90 day washout)												
	459,177	490,700	493,233	3,156,339	43,985,985	8,653.9	101,934,600	219,595,694.0	4.50	6.87	1.07	6.40
Incident Use of Zanamivir (45 day washout)												
	7,559	7,955	8,010	58,725	158,573	161.1	101,947,808	219,957,527.7	0.07	7.77	1.06	7.33
Incident Use of Zanamivir (90 day washout)												
	7,461	7,783	7,832	57,173	154,947	156.8	101,934,600	219,595,663.4	0.07	7.66	1.05	7.30

Table 1b: Summary of Incident Influenza Antiviral Drug Use among Patients with Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug and Washout Period

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member- Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Incident Use of Oseltamivir Capsules (45 day washout)												
	2,155,115	2,295,245	2,311,988	13,365,791	25,511,905	36,667.1	109,554,203	237,889,786.7	19.67	6.20	1.07	5.78
Incident Use of Oseltamivir Capsules (90 day washout)												
	2,152,411	2,280,874	2,297,261	13,271,204	25,331,189	36,405.7	109,540,337	237,501,819.9	19.65	6.17	1.07	5.78
Incident Use of Oseltamivir Powder (45 day washout)												
	464,835	499,649	502,296	3,217,273	44,800,483	8,821.2	109,554,203	237,889,786.7	4.24	6.92	1.08	6.41
Incident Use of Oseltamivir Powder (90 day washout)												
	464,234	496,098	498,702	3,194,968	44,505,993	8,759.9	109,540,337	237,501,819.9	4.24	6.88	1.07	6.41
Incident Use of Zanamivir (45 day washout)												
	7,831	8,240	8,297	60,822	164,154	166.8	109,554,203	237,889,757.9	0.07	7.77	1.06	7.33
Incident Use of Zanamivir (90 day washout)												
	7,727	8,058	8,109	59,165	160,289	162.2	109,540,337	237,501,788.3	0.07	7.66	1.05	7.30



Table 2a: Summary of Incident Influenza Antiviral Drug Use among Patients with Medical and Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Age Group

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member- Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Incident Use of Oseltamivir Capsules (45 day washout)												
0-1 Years	11,765	11,822	11,902	73,416	258,099	201.4	4,292,837	3,875,550.9	2.74	6.24	1.01	6.17
2-4 Years	32,354	32,750	32,911	198,217	808,604	543.6	5,879,487	7,175,641.5	5.50	6.13	1.02	6.02
5-9 Years	86,615	89,451	89,951	540,878	2,179,156	1,483.7	8,554,073	13,012,866.0	10.13	6.24	1.04	6.01
10-14 Years	177,223	186,513	187,211	1,063,700	2,334,409	2,916.6	8,902,722	13,837,416.0	19.91	6.00	1.06	5.68
15-18 Years	134,479	140,203	140,647	786,110	1,412,313	2,155.0	8,139,911	11,606,620.8	16.52	5.85	1.05	5.59
19-21 Years	72,499	74,253	74,449	404,264	741,627	1,107.9	7,550,091	8,948,591.0	9.60	5.58	1.03	5.43
22-44 Years	770,167	811,689	814,467	4,612,638	8,118,969	12,643.4	40,943,638	70,067,772.1	18.81	5.99	1.06	5.66
45-64 Years	550,319	585,603	589,101	3,325,487	5,958,322	9,125.3	30,373,140	65,361,059.3	18.12	6.04	1.07	5.65
65-74 Years	92,872	98,293	99,340	564,515	984,825	1,550.6	7,129,478	15,375,755.0	13.03	6.08	1.07	5.68
75+ Years	67,435	72,308	74,578	492,888	727,971	1,355.2	3,908,717	10,696,282.8	17.25	7.31	1.11	6.61
Incident Use of Oseltamivir Capsules (90 day washout)												
0-1 Years	11,633	11,664	11,743	72,430	255,441	198.7	4,290,530	3,865,143.4	2.71	6.23	1.01	6.17
2-4 Years	31,926	32,231	32,391	195,256	795,963	535.5	5,876,399	7,151,477.0	5.43	6.12	1.01	6.03
5-9 Years	85,879	88,333	88,822	534,049	2,151,345	1,465.0	8,550,708	12,969,906.0	10.04	6.22	1.03	6.01
10-14 Years	176,902	185,391	186,081	1,057,264	2,320,131	2,898.9	8,900,147	13,803,873.8	19.88	5.98	1.05	5.68
15-18 Years	134,333	139,471	139,910	782,047	1,404,747	2,143.9	8,138,201	11,585,730.8	16.51	5.82	1.04	5.59
19-21 Years	72,445	74,001	74,194	402,884	739,091	1,104.1	7,548,668	8,937,705.6	9.60	5.56	1.02	5.43
22-44 Years	769,672	808,335	811,072	4,592,722	8,084,713	12,588.5	40,937,397	69,952,853.7	18.80	5.97	1.05	5.66
45-64 Years	549,916	581,987	585,344	3,302,455	5,918,522	9,061.1	30,370,126	65,279,321.0	18.11	6.01	1.06	5.64
65-74 Years	92,820	97,575	98,589	559,877	976,973	1,537.7	7,128,893	15,362,602.9	13.02	6.03	1.06	5.68
75+ Years	67,388	71,679	73,909	486,979	720,627	1,338.9	3,908,555	10,687,079.8	17.24	7.23	1.10	6.59
Incident Use of Oseltamivir Powder (45 day washout)												
0-1 Years	69,189	70,859	71,227	458,364	3,913,067	1,257.5	4,292,837	3,875,550.9	16.12	6.62	1.03	6.44
2-4 Years	136,600	143,178	143,955	919,939	11,217,058	2,523.0	5,879,487	7,175,641.5	23.23	6.73	1.05	6.39
5-9 Years	210,618	222,705	223,850	1,438,786	22,658,027	3,944.1	8,554,073	13,012,866.0	24.62	6.83	1.06	6.43
10-14 Years	48,770	49,863	50,085	312,742	5,637,318	856.9	8,902,722	13,837,416.0	5.48	6.41	1.03	6.24
15-18 Years	2,151	2,188	2,201	13,794	281,737	37.8	8,139,911	11,606,620.8	0.26	6.41	1.02	6.27
19-21 Years	459	463	468	2,711	53,188	7.5	7,550,091	8,948,591.0	0.06	5.91	1.02	5.79
22-44 Years	2,528	2,551	2,567	15,961	290,752	43.7	40,943,638	70,067,772.1	0.06	6.31	1.02	6.22
45-64 Years	1,036	1,041	1,044	6,612	123,202	18.1	30,373,140	65,361,059.3	0.03	6.38	1.01	6.33



Table 2a: Summary of Incident Influenza Antiviral Drug Use among Patients with Medical and Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Age Group

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member- Years	New Users / 1K			
									Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
65-74 Years	327	327	331	2,064	29,088	5.7	7,129,478	15,375,755.0	0.05	6.31	1.01	6.24
75+ Years	1,003	1,013	1,035	7,120	70,564	19.5	3,908,717	10,696,282.8	0.26	7.10	1.03	6.88
Incident Use of Oseltamivir Powder (90 day washout)												
0-1 Years	69,092	70,337	70,699	454,995	3,885,160	1,248.2	4,290,530	3,865,143.4	16.10	6.59	1.02	6.44
2-4 Years	136,351	141,991	142,759	912,546	11,131,886	2,502.8	5,876,399	7,151,477.0	23.20	6.69	1.05	6.39
5-9 Years	210,323	221,188	222,309	1,429,360	22,511,358	3,918.2	8,550,708	12,969,906.0	24.60	6.80	1.06	6.43
10-14 Years	48,677	49,635	49,854	311,430	5,612,950	853.3	8,900,147	13,803,873.8	5.47	6.40	1.02	6.25
15-18 Years	2,144	2,178	2,191	13,722	280,297	37.6	8,138,201	11,585,730.8	0.26	6.40	1.02	6.26
19-21 Years	456	460	465	2,697	52,768	7.4	7,548,668	8,937,705.6	0.06	5.91	1.02	5.80
22-44 Years	2,522	2,542	2,558	15,899	289,657	43.5	40,937,397	69,952,853.7	0.06	6.30	1.01	6.22
45-64 Years	1,034	1,039	1,042	6,601	123,082	18.1	30,370,126	65,279,321.0	0.03	6.38	1.01	6.33
65-74 Years	325	325	329	2,049	28,978	5.6	7,128,893	15,362,602.9	0.05	6.30	1.01	6.23
75+ Years	999	1,005	1,027	7,040	69,849	19.3	3,908,555	10,687,079.8	0.26	7.05	1.03	6.85
Incident Use of Zanamivir (45 day washout)												
0-1 Years	1	1	1	5	20	0.0	4,292,836	3,875,549.8	0.00	5.00	1.00	5.00
2-4 Years	16	16	16	82	288	0.2	5,879,487	7,175,637.3	0.00	5.13	1.00	5.13
5-9 Years	591	601	603	4,511	11,976	12.4	8,554,073	13,012,854.7	0.07	7.63	1.02	7.48
10-14 Years	785	806	806	5,674	15,931	15.5	8,902,722	13,837,408.8	0.09	7.23	1.03	7.04
15-18 Years	541	551	552	3,607	10,813	9.9	8,139,911	11,606,619.9	0.07	6.67	1.02	6.53
19-21 Years	291	296	296	1,912	5,884	5.2	7,550,091	8,948,590.6	0.04	6.57	1.02	6.46
22-44 Years	3,110	3,190	3,201	22,028	63,239	60.4	40,943,638	70,067,770.3	0.08	7.08	1.03	6.88
45-64 Years	1,969	2,180	2,215	18,111	44,193	49.8	30,373,140	65,361,058.8	0.06	9.20	1.12	8.18
65-74 Years	215	237	241	2,222	4,737	6.1	7,129,478	15,375,754.9	0.03	10.33	1.12	9.22
75+ Years	68	77	79	573	1,492	1.6	3,908,717	10,696,282.3	0.02	8.43	1.16	7.25
Incident Use of Zanamivir (90 day washout)												
0-1 Years	1	1	1	5	20	0.0	4,290,529	3,865,142.2	0.00	5.00	1.00	5.00
2-4 Years	13	13	13	62	228	0.2	5,876,399	7,151,472.2	0.00	4.77	1.00	4.77
5-9 Years	581	590	592	4,455	11,756	12.2	8,550,708	12,969,893.5	0.07	7.67	1.02	7.53
10-14 Years	776	795	795	5,595	15,711	15.3	8,900,146	13,803,865.9	0.09	7.21	1.02	7.04
15-18 Years	529	537	538	3,497	10,533	9.6	8,138,201	11,585,729.8	0.07	6.61	1.02	6.50
19-21 Years	288	291	291	1,882	5,784	5.2	7,548,668	8,937,705.2	0.04	6.53	1.01	6.47

Table 2a: Summary of Incident Influenza Antiviral Drug Use among Patients with Medical and Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Age Group

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member- Years	New Users / 1K			
									Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
22-44 Years	3,077	3,143	3,153	21,621	62,259	59.3	40,937,397	69,952,851.9	0.08	7.03	1.02	6.86
45-64 Years	1,944	2,108	2,138	17,341	42,607	47.6	30,370,126	65,279,320.5	0.06	8.92	1.10	8.11
65-74 Years	214	230	234	2,152	4,597	5.9	7,128,893	15,362,602.9	0.03	10.06	1.09	9.20
75+ Years	66	75	77	563	1,452	1.5	3,908,555	10,687,079.4	0.02	8.53	1.17	7.31

Table 2b: Summary of Incident Influenza Antiviral Drug Use among Patients with Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Age Group

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member- Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Incident Use of Oseltamivir Capsules (45 day washout)												
0-1 Years	11,824	11,883	11,963	73,799	259,779	202.5	4,324,513	3,904,438.9	2.73	6.24	1.01	6.17
2-4 Years	32,571	32,971	33,133	199,603	814,861	547.4	5,936,648	7,246,549.1	5.49	6.13	1.02	6.02
5-9 Years	87,306	90,170	90,678	545,419	2,199,657	1,496.2	8,656,083	13,172,899.9	10.09	6.25	1.04	6.01
10-14 Years	178,949	188,366	189,069	1,074,336	2,356,985	2,945.7	9,024,230	14,033,083.5	19.83	6.00	1.06	5.68
15-18 Years	135,732	141,526	141,971	793,502	1,425,533	2,175.3	8,255,403	11,777,607.9	16.44	5.85	1.05	5.59
19-21 Years	73,291	75,066	75,267	408,794	749,802	1,120.3	7,681,490	9,097,513.4	9.54	5.58	1.03	5.43
22-44 Years	783,700	826,232	829,141	4,696,949	8,264,814	12,874.6	41,901,193	71,682,576.2	18.70	5.99	1.06	5.66
45-64 Years	573,612	611,030	615,138	3,485,146	6,216,819	9,564.7	31,741,684	68,024,270.4	18.07	6.08	1.07	5.67
65-74 Years	153,930	163,411	165,523	970,474	1,647,082	2,666.6	10,559,269	22,297,082.4	14.58	6.30	1.08	5.86
75+ Years	142,611	154,590	160,105	1,117,769	1,576,573	3,073.9	6,275,968	16,653,765.0	22.72	7.84	1.12	6.98
Incident Use of Oseltamivir Capsules (90 day washout)												
0-1 Years	11,691	11,724	11,803	72,808	257,111	199.8	4,322,195	3,893,963.5	2.70	6.23	1.01	6.17
2-4 Years	32,140	32,449	32,610	196,627	802,126	539.2	5,933,547	7,222,194.0	5.42	6.12	1.01	6.03
5-9 Years	86,567	89,048	89,545	538,569	2,171,686	1,477.4	8,652,709	13,129,556.2	10.00	6.22	1.03	6.01
10-14 Years	178,625	187,232	187,927	1,067,795	2,342,577	2,927.7	9,021,657	13,999,214.0	19.80	5.98	1.05	5.68
15-18 Years	135,586	140,788	141,228	789,399	1,417,907	2,164.0	8,253,686	11,756,528.5	16.43	5.82	1.04	5.59
19-21 Years	73,237	74,809	75,007	407,389	747,216	1,116.4	7,680,058	9,086,514.8	9.54	5.56	1.02	5.43
22-44 Years	783,200	822,777	825,644	4,676,399	8,229,521	12,818.1	41,894,904	71,565,658.5	18.69	5.97	1.05	5.66
45-64 Years	573,201	607,098	611,052	3,459,637	6,173,558	9,493.6	31,738,555	67,939,059.2	18.06	6.04	1.07	5.66
65-74 Years	153,833	162,048	164,102	960,675	1,631,671	2,639.3	10,558,490	22,275,093.5	14.57	6.24	1.07	5.85
75+ Years	142,496	152,901	158,343	1,101,906	1,557,816	3,030.2	6,275,358	16,634,037.8	22.71	7.73	1.11	6.96
Incident Use of Oseltamivir Powder (45 day washout)												
0-1 Years	69,651	71,337	71,708	461,904	3,941,571	1,267.2	4,324,513	3,904,438.9	16.11	6.63	1.03	6.44
2-4 Years	137,677	144,310	145,092	927,458	11,311,622	2,543.7	5,936,648	7,246,549.1	23.19	6.74	1.05	6.39
5-9 Years	212,403	224,641	225,793	1,452,077	22,868,454	3,980.5	8,656,083	13,172,899.9	24.54	6.84	1.06	6.43
10-14 Years	49,271	50,377	50,599	316,087	5,697,939	866.0	9,024,230	14,033,083.5	5.46	6.42	1.03	6.25
15-18 Years	2,180	2,219	2,232	13,998	286,621	38.3	8,255,403	11,777,607.9	0.26	6.42	1.02	6.27
19-21 Years	476	480	486	2,820	55,324	7.8	7,681,490	9,097,513.4	0.06	5.92	1.02	5.80
22-44 Years	2,632	2,658	2,674	16,615	304,217	45.5	41,901,193	71,682,576.2	0.06	6.31	1.02	6.21
45-64 Years	1,181	1,189	1,200	7,723	139,980	21.2	31,741,684	68,024,270.4	0.04	6.54	1.02	6.44
65-74 Years	561	568	585	4,046	53,954	11.1	10,559,269	22,297,082.4	0.05	7.21	1.04	6.92
75+ Years	1,849	1,870	1,927	14,545	140,802	39.9	6,275,968	16,653,765.0	0.29	7.87	1.04	7.55
Incident Use of Oseltamivir Powder (90 day washout)												
0-1 Years	69,554	70,809	71,174	458,490	3,913,339	1,257.8	4,322,195	3,893,963.5	16.09	6.59	1.02	6.44

Table 2b: Summary of Incident Influenza Antiviral Drug Use among Patients with Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Age Group

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member- Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
2-4 Years	137,426	143,112	143,885	919,987	11,225,500	2,523.2	5,933,547	7,222,194.0	23.16	6.69	1.05	6.39
5-9 Years	212,105	223,109	224,237	1,442,558	22,720,226	3,954.4	8,652,709	13,129,556.2	24.51	6.80	1.06	6.43
10-14 Years	49,178	50,147	50,366	314,767	5,673,391	862.4	9,021,657	13,999,214.0	5.45	6.40	1.02	6.25
15-18 Years	2,173	2,209	2,222	13,926	285,181	38.1	8,253,686	11,756,528.5	0.26	6.41	1.02	6.27
19-21 Years	473	477	483	2,806	54,904	7.7	7,680,058	9,086,514.8	0.06	5.93	1.02	5.81
22-44 Years	2,625	2,648	2,664	16,539	302,942	45.3	41,894,904	71,565,658.5	0.06	6.30	1.01	6.21
45-64 Years	1,178	1,184	1,195	7,674	139,320	21.1	31,738,555	67,939,059.2	0.04	6.51	1.01	6.42
65-74 Years	552	556	573	3,932	52,649	10.8	10,558,490	22,275,093.5	0.05	7.12	1.04	6.86
75+ Years	1,838	1,847	1,903	14,289	138,543	39.2	6,275,358	16,634,037.8	0.29	7.77	1.04	7.51
Incident Use of Zanamivir (45 day washout)												
0-1 Years	1	1	1	5	20	0.0	4,324,512	3,904,437.8	0.00	5.00	1.00	5.00
2-4 Years	16	16	16	82	288	0.2	5,936,648	7,246,544.9	0.00	5.13	1.00	5.13
5-9 Years	595	605	607	4,534	12,048	12.4	8,656,083	13,172,888.5	0.07	7.62	1.02	7.47
10-14 Years	793	814	814	5,739	16,111	15.7	9,024,230	14,033,076.4	0.09	7.24	1.03	7.05
15-18 Years	543	553	554	3,617	10,853	9.9	8,255,403	11,777,607.1	0.07	6.66	1.02	6.53
19-21 Years	294	299	299	1,935	5,946	5.3	7,681,490	9,097,513.0	0.04	6.58	1.02	6.47
22-44 Years	3,138	3,218	3,229	22,240	63,859	61.0	41,901,193	71,682,574.4	0.07	7.09	1.03	6.89
45-64 Years	2,014	2,225	2,261	18,463	45,101	50.8	31,741,684	68,024,269.8	0.06	9.17	1.12	8.17
65-74 Years	336	368	372	3,167	7,221	8.7	10,559,269	22,297,082.2	0.03	9.43	1.11	8.51
75+ Years	130	141	144	1,040	2,707	2.9	6,275,968	16,653,763.7	0.02	8.00	1.11	7.22
Incident Use of Zanamivir (90 day washout)												
0-1 Years	1	1	1	5	20	0.0	4,322,194	3,893,962.4	0.00	5.00	1.00	5.00
2-4 Years	13	13	13	62	228	0.2	5,933,547	7,222,189.2	0.00	4.77	1.00	4.77
5-9 Years	585	594	596	4,478	11,828	12.3	8,652,709	13,129,543.6	0.07	7.65	1.02	7.51
10-14 Years	783	802	802	5,640	15,851	15.4	9,021,656	13,999,206.1	0.09	7.20	1.02	7.03
15-18 Years	531	539	540	3,507	10,573	9.6	8,253,686	11,756,527.5	0.06	6.60	1.02	6.49
19-21 Years	291	294	294	1,905	5,846	5.2	7,680,058	9,086,514.4	0.04	6.55	1.01	6.48
22-44 Years	3,105	3,171	3,181	21,833	62,879	59.8	41,894,904	71,565,656.5	0.07	7.03	1.02	6.86
45-64 Years	1,988	2,152	2,183	17,673	43,475	48.6	31,738,555	67,939,058.5	0.06	8.89	1.10	8.10
65-74 Years	333	356	360	3,052	6,981	8.4	10,558,490	22,275,093.3	0.03	9.17	1.08	8.48
75+ Years	126	136	139	1,010	2,607	2.8	6,275,358	16,634,036.7	0.02	8.02	1.10	7.27

Table 3a: Summary of Incident Influenza Antiviral Drug Use among Patients with Medical and Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Sex

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member- Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Incident Use of Oseltamivir Capsules (45 day washout)												
Female	1,079,425	1,148,750	1,155,424	6,624,124	12,671,218	18,169.7	51,646,599	112,552,807.4	20.90	6.14	1.07	5.73
Male	898,790	954,071	959,069	5,437,638	10,852,324	14,912.0	50,296,141	107,395,010.1	17.87	6.05	1.07	5.67
Unknown	61	64	64	351	751	1.0	5,068	9,737.8	12.04	5.75	1.05	5.48
Incident Use of Oseltamivir Capsules (90 day washout)												
Female	1,078,086	1,142,025	1,148,541	6,582,155	12,586,913	18,053.8	51,639,471	112,359,497.1	20.88	6.11	1.07	5.73
Male	897,546	948,579	953,451	5,403,462	10,779,900	14,817.5	50,290,063	107,226,470.4	17.85	6.02	1.06	5.67
Unknown	60	63	63	346	741	0.9	5,066	9,726.5	11.84	5.77	1.05	5.49
Incident Use of Oseltamivir Powder (45 day washout)												
Female	220,344	236,371	237,593	1,521,740	21,103,549	4,172.3	51,646,599	112,552,807.4	4.27	6.91	1.08	6.40
Male	239,395	257,797	259,150	1,656,227	23,168,842	4,541.0	50,296,141	107,395,010.1	4.76	6.92	1.08	6.39
Unknown	19	20	20	126	1,610	0.3	5,068	9,737.8	3.75	6.63	1.05	6.30
Incident Use of Oseltamivir Powder (90 day washout)												
Female	220,076	234,752	235,956	1,511,666	20,968,149	4,144.7	51,639,471	112,359,497.1	4.26	6.87	1.07	6.41
Male	239,082	255,928	257,257	1,644,547	23,016,226	4,508.9	50,290,063	107,226,470.4	4.75	6.88	1.08	6.39
Unknown	19	20	20	126	1,610	0.3	5,066	9,726.5	3.75	6.63	1.05	6.30
Incident Use of Zanamivir (45 day washout)												
Female	4,056	4,271	4,300	32,222	84,906	88.4	51,646,599	112,552,794.0	0.08	7.94	1.06	7.49
Male	3,503	3,684	3,710	26,503	73,667	72.7	50,296,141	107,394,995.9	0.07	7.57	1.06	7.14
Unknown	0	0	0	0	0	0.0	5,068	9,737.8	0.00	---	---	---
Incident Use of Zanamivir (90 day washout)												
Female	3,998	4,171	4,199	31,352	82,808	86.0	51,639,471	112,359,482.2	0.08	7.84	1.05	7.47
Male	3,463	3,612	3,633	25,821	72,139	70.8	50,290,063	107,226,454.7	0.07	7.46	1.05	7.11
Unknown	0	0	0	0	0	0.0	5,066	9,726.5	0.00	---	---	---

Table 3b: Summary of Incident Influenza Antiviral Drug Use among Patients with Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Sex

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member- Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Incident Use of Oseltamivir Capsules (45 day washout)												
Female	1,188,842	1,268,229	1,278,221	7,446,486	13,901,741	20,430.5	55,893,867	122,863,627.3	21.27	6.26	1.08	5.83
Male	966,212	1,026,952	1,033,703	5,918,954	11,609,413	16,235.6	53,655,171	115,016,368.1	18.01	6.13	1.07	5.73
Unknown	61	64	64	351	751	1.0	5,165	9,791.3	11.81	5.75	1.05	5.48
Incident Use of Oseltamivir Capsules (90 day washout)												
Female	1,187,432	1,260,103	1,269,899	7,392,642	13,802,278	20,281.8	55,886,329	122,654,226.1	21.25	6.23	1.07	5.82
Male	964,919	1,020,708	1,027,299	5,878,216	11,528,170	16,122.9	53,648,845	114,837,813.8	17.99	6.09	1.06	5.72
Unknown	60	63	63	346	741	0.9	5,163	9,780.0	11.62	5.77	1.05	5.49
Incident Use of Oseltamivir Powder (45 day washout)												
Female	223,058	239,291	240,559	1,543,178	21,385,140	4,231.1	55,893,867	122,863,627.3	3.99	6.92	1.08	6.41
Male	241,758	260,338	261,717	1,673,969	23,413,733	4,589.7	53,655,171	115,016,368.1	4.51	6.92	1.08	6.40
Unknown	19	20	20	126	1,610	0.3	5,165	9,791.3	3.68	6.63	1.05	6.30
Incident Use of Oseltamivir Powder (90 day washout)												
Female	222,778	237,635	238,884	1,532,757	21,246,115	4,202.5	55,886,329	122,654,226.1	3.99	6.88	1.07	6.42
Male	241,437	258,443	259,798	1,662,085	23,258,268	4,557.0	53,648,845	114,837,813.8	4.50	6.88	1.08	6.40
Unknown	19	20	20	126	1,610	0.3	5,163	9,780.0	3.68	6.63	1.05	6.30
Incident Use of Zanamivir (45 day washout)												
Female	4,197	4,418	4,449	33,407	87,837	91.7	55,893,867	122,863,613.2	0.08	7.96	1.06	7.51
Male	3,634	3,822	3,848	27,415	76,317	75.2	53,655,171	115,016,353.4	0.07	7.54	1.06	7.12
Unknown	0	0	0	0	0	0.0	5,165	9,791.3	0.00	---	---	---
Incident Use of Zanamivir (90 day washout)												
Female	4,137	4,314	4,344	32,482	85,639	89.1	55,886,329	122,654,210.6	0.07	7.85	1.05	7.48
Male	3,590	3,744	3,765	26,683	74,650	73.1	53,648,845	114,837,797.8	0.07	7.43	1.05	7.09
Unknown	0	0	0	0	0	0.0	5,163	9,780.0	0.00	---	---	---



Table 4a: Summary of Incident Influenza Antiviral Drug Use among Patients with Medical and Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member- Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Incident Use of Oseltamivir Capsules (45 day washout)												
2010	123,089	124,835	125,468	700,928	1,307,989	1,922.9	47,934,747	37,919,875.0	2.57	5.69	1.02	5.59
2011	295,389	297,493	299,081	1,726,226	3,654,462	4,735.0	46,530,717	37,035,475.7	6.35	5.84	1.01	5.77
2012	272,501	275,170	276,684	1,602,832	2,905,751	4,396.5	49,511,346	38,872,788.4	5.50	5.88	1.02	5.79
2013	521,041	528,137	531,112	3,015,770	6,624,348	8,271.5	49,349,611	39,289,122.7	10.56	5.79	1.02	5.68
2014	522,098	529,603	532,619	3,035,702	5,520,134	8,325.6	51,090,220	39,866,388.4	10.22	5.81	1.02	5.70
2015	345,759	347,647	349,593	1,980,655	3,511,610	5,431.1	46,909,713	26,973,905.3	7.37	5.73	1.01	5.67
Incident Use of Oseltamivir Capsules (90 day washout)												
2010	121,982	123,194	123,803	691,213	1,289,817	1,896.1	47,925,295	37,860,937.7	2.55	5.67	1.01	5.58
2011	294,376	295,849	297,400	1,716,030	3,631,288	4,706.8	46,528,034	36,985,006.1	6.33	5.83	1.01	5.77
2012	272,340	274,523	276,000	1,598,612	2,898,237	4,384.7	49,509,576	38,852,677.2	5.50	5.87	1.01	5.79
2013	518,746	524,406	527,292	2,992,131	6,564,798	8,206.3	49,342,676	39,202,997.7	10.51	5.77	1.02	5.67
2014	521,429	527,893	530,862	3,025,364	5,501,554	8,297.0	51,084,798	39,807,468.8	10.21	5.80	1.02	5.70
2015	343,924	344,802	346,698	1,962,613	3,481,860	5,381.4	46,898,333	26,886,606.4	7.33	5.71	1.01	5.66
Incident Use of Oseltamivir Powder (45 day washout)												
2010	33,370	33,862	34,037	203,571	1,460,382	558.2	47,934,747	37,919,875.0	0.70	6.10	1.02	5.98
2011	55,105	55,311	55,583	330,565	2,576,150	906.3	46,530,717	37,035,475.7	1.18	6.00	1.01	5.95
2012	90,007	91,153	91,624	595,145	9,206,778	1,631.9	49,511,346	38,872,788.4	1.82	6.61	1.02	6.50
2013	97,015	98,505	99,092	642,370	9,602,364	1,761.7	49,349,611	39,289,122.7	1.97	6.62	1.02	6.48
2014	139,339	142,123	142,842	924,922	14,137,789	2,535.7	51,090,220	39,866,388.4	2.73	6.64	1.03	6.48
2015	72,905	73,234	73,585	481,520	7,290,537	1,319.9	46,909,713	26,973,905.3	1.55	6.60	1.01	6.54
Incident Use of Oseltamivir Powder (90 day washout)												
2010	33,130	33,513	33,682	201,494	1,446,632	552.5	47,925,295	37,860,937.7	0.69	6.08	1.02	5.98
2011	54,773	54,932	55,199	328,347	2,560,334	900.3	46,528,034	36,985,006.1	1.18	5.99	1.01	5.95
2012	89,971	90,992	91,461	594,155	9,192,408	1,629.2	49,509,576	38,852,677.2	1.82	6.60	1.02	6.50
2013	96,193	97,455	98,031	635,827	9,504,127	1,743.8	49,342,676	39,202,997.7	1.95	6.61	1.02	6.49
2014	139,060	141,500	142,207	920,941	14,081,343	2,524.7	51,084,798	39,807,468.8	2.72	6.62	1.02	6.48
2015	72,209	72,308	72,653	475,575	7,201,140	1,303.6	46,898,333	26,886,606.4	1.54	6.59	1.01	6.55
Incident Use of Zanamivir (45 day washout)												
2010	2,911	2,949	2,962	20,808	59,348	57.1	47,934,746	37,919,873.2	0.06	7.15	1.02	7.02
2011	2,269	2,295	2,311	16,276	46,210	44.7	46,530,717	37,035,472.0	0.05	7.17	1.02	7.04

Table 4a: Summary of Incident Influenza Antiviral Drug Use among Patients with Medical and Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member- Years	New Users / 1K			
									Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
2012	1,009	1,034	1,053	8,307	20,943	22.8	49,511,346	38,872,786.8	0.02	8.23	1.04	7.89
2013	879	908	910	7,335	17,801	20.1	49,349,611	39,289,114.8	0.02	8.34	1.04	8.06
2014	480	489	491	3,601	8,927	9.9	51,090,219	39,866,382.1	0.01	7.50	1.02	7.33
2015	273	280	283	2,398	5,343	6.6	46,909,713	26,973,898.8	0.01	8.78	1.04	8.47
Incident Use of Zanamivir (90 day washout)												
2010	2,864	2,889	2,901	20,333	58,124	55.8	47,925,295	37,860,933.0	0.06	7.10	1.01	7.01
2011	2,245	2,267	2,282	16,023	45,635	43.9	46,528,034	36,985,002.4	0.05	7.14	1.02	7.02
2012	1,001	1,019	1,034	8,082	20,523	22.2	49,509,576	38,852,675.6	0.02	8.07	1.03	7.82
2013	864	879	881	7,101	17,235	19.4	49,342,675	39,202,990.1	0.02	8.22	1.02	8.06
2014	469	472	474	3,426	8,547	9.4	51,084,798	39,807,462.5	0.01	7.30	1.01	7.23
2015	257	257	260	2,208	4,883	6.1	46,898,331	26,886,599.8	0.01	8.59	1.01	8.49



Table 4b: Summary of Incident Influenza Antiviral Drug Use among Patients with Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member- Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Incident Use of Oseltamivir Capsules (45 day washout)												
2010	127,533	129,381	130,074	727,840	1,354,314	1,996.8	50,297,950	39,904,563.1	2.54	5.71	1.02	5.60
2011	306,974	309,244	311,067	1,803,065	3,779,185	4,946.3	49,813,003	39,623,798.1	6.16	5.87	1.01	5.80
2012	294,079	297,110	299,214	1,752,679	3,132,511	4,808.7	53,417,840	42,089,675.7	5.51	5.96	1.02	5.86
2013	561,851	569,732	573,759	3,292,083	7,064,082	9,031.2	53,496,356	42,814,958.7	10.50	5.86	1.02	5.74
2014	577,591	586,409	591,038	3,416,163	6,100,375	9,371.9	55,932,362	43,902,172.2	10.33	5.91	1.02	5.78
2015	400,928	403,369	406,836	2,373,961	4,081,439	6,512.1	52,001,794	29,554,618.9	7.71	5.92	1.01	5.84
Incident Use of Oseltamivir Capsules (90 day washout)												
2010	126,381	127,651	128,318	717,570	1,335,218	1,968.5	50,288,388	39,844,146.2	2.51	5.68	1.02	5.59
2011	305,930	307,494	309,274	1,792,157	3,754,871	4,916.0	49,810,189	39,571,336.7	6.14	5.86	1.01	5.79
2012	293,892	296,307	298,364	1,746,933	3,123,048	4,792.6	53,415,994	42,068,395.9	5.50	5.94	1.02	5.86
2013	559,374	565,561	569,487	3,264,799	6,999,554	8,956.0	53,489,041	42,722,610.1	10.46	5.84	1.02	5.73
2014	576,805	584,318	588,888	3,402,807	6,077,319	9,334.9	55,926,768	43,839,284.2	10.31	5.90	1.02	5.78
2015	398,559	399,543	402,930	2,346,938	4,041,179	6,437.7	51,989,516	29,456,046.9	7.67	5.89	1.01	5.82
Incident Use of Oseltamivir Powder (45 day washout)												
2010	33,503	33,995	34,173	204,490	1,466,614	560.7	50,297,950	39,904,563.1	0.67	6.10	1.02	5.98
2011	55,391	55,597	55,870	332,323	2,590,513	911.2	49,813,003	39,623,798.1	1.11	6.00	1.01	5.95
2012	90,872	92,030	92,508	601,135	9,299,317	1,648.3	53,417,840	42,089,675.7	1.70	6.62	1.02	6.50
2013	98,042	99,544	100,136	649,334	9,708,572	1,780.8	53,496,356	42,814,958.7	1.83	6.62	1.02	6.48
2014	140,819	143,632	144,376	935,736	14,295,448	2,565.3	55,932,362	43,902,172.2	2.52	6.64	1.03	6.48
2015	74,510	74,851	75,233	494,255	7,440,019	1,354.8	52,001,794	29,554,618.9	1.43	6.63	1.01	6.57
Incident Use of Oseltamivir Powder (90 day washout)												
2010	33,262	33,645	33,817	202,403	1,452,814	555.0	50,288,388	39,844,146.2	0.66	6.09	1.02	5.99
2011	55,058	55,217	55,485	330,100	2,574,672	905.1	49,810,189	39,571,336.7	1.11	6.00	1.01	5.95
2012	90,835	91,866	92,342	600,121	9,284,652	1,645.6	53,415,994	42,068,395.9	1.70	6.61	1.02	6.50
2013	97,213	98,485	99,066	642,743	9,609,315	1,762.7	53,489,041	42,722,610.1	1.82	6.61	1.02	6.49
2014	140,538	143,000	143,732	931,692	14,238,282	2,554.1	55,926,768	43,839,284.2	2.51	6.63	1.02	6.48
2015	73,785	73,885	74,260	487,909	7,346,258	1,337.4	51,989,516	29,456,046.9	1.42	6.61	1.01	6.57
Incident Use of Zanamivir (45 day washout)												
2010	2,966	3,004	3,018	21,252	60,444	58.3	50,297,949	39,904,561.4	0.06	7.17	1.02	7.04
2011	2,324	2,352	2,368	16,624	47,361	45.6	49,813,003	39,623,794.4	0.05	7.15	1.02	7.02

Table 4b: Summary of Incident Influenza Antiviral Drug Use among Patients with Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member- Years	New Users / 1K			
									Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
2012	1,065	1,091	1,110	8,814	22,139	24.2	53,417,840	42,089,674.0	0.02	8.28	1.04	7.94
2013	940	969	971	7,825	19,010	21.4	53,496,356	42,814,950.7	0.02	8.32	1.03	8.06
2014	513	522	525	3,794	9,483	10.4	55,932,361	43,902,165.9	0.01	7.40	1.02	7.23
2015	295	302	305	2,513	5,717	6.9	52,001,794	29,554,611.5	0.01	8.52	1.03	8.24
Incident Use of Zanamivir (90 day washout)												
2010	2,919	2,944	2,957	20,777	59,220	57.0	50,288,388	39,844,141.5	0.06	7.12	1.01	7.03
2011	2,298	2,321	2,336	16,336	46,725	44.8	49,810,189	39,571,333.0	0.05	7.11	1.02	6.99
2012	1,057	1,075	1,090	8,579	21,699	23.5	53,415,994	42,068,394.3	0.02	8.12	1.03	7.87
2013	919	934	936	7,531	18,284	20.6	53,489,040	42,722,602.3	0.02	8.19	1.02	8.05
2014	502	505	508	3,619	9,103	9.9	55,926,768	43,839,277.8	0.01	7.21	1.01	7.12
2015	279	279	282	2,323	5,257	6.4	51,989,514	29,456,039.4	0.01	8.33	1.01	8.24

Table 5a: Summary of Incident Influenza Antiviral Drug Use among Patients with Medical and Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year/Month

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Incident Use of Oseltamivir Capsules (45 day washout)												
2010												
January	22,439	22,439	22,542	123,774	240,953	339.2	37,265,055	3,099,764.7	0.60	5.52	1.00	5.49
February	18,048	18,048	18,139	100,210	192,483	275.0	36,556,227	2,790,311.3	0.49	5.55	1.01	5.52
March	16,497	16,497	16,553	92,227	175,280	252.8	36,438,922	3,079,772.8	0.45	5.59	1.00	5.57
April	5,249	5,249	5,286	28,617	54,506	78.5	38,893,656	3,182,798.5	0.13	5.45	1.01	5.41
May	2,706	2,706	2,724	14,676	28,116	40.3	39,372,271	3,284,939.6	0.07	5.42	1.01	5.39
June	1,946	1,946	1,958	10,531	19,873	28.9	39,395,257	3,173,041.3	0.05	5.41	1.01	5.38
July	1,330	1,330	1,342	7,231	13,708	19.8	39,051,525	3,258,241.2	0.03	5.44	1.01	5.39
August	1,825	1,825	1,837	10,212	18,887	28.0	38,983,749	3,247,421.3	0.05	5.60	1.01	5.56
September	3,630	3,630	3,663	20,591	37,643	56.6	39,047,085	3,128,812.8	0.09	5.67	1.01	5.62
October	5,812	5,812	5,871	32,210	60,031	88.7	39,002,909	3,244,560.3	0.15	5.54	1.01	5.49
November	10,840	10,840	10,900	61,384	113,438	168.6	39,183,035	3,150,601.1	0.28	5.66	1.01	5.63
December	34,513	34,513	34,653	199,265	353,071	546.3	39,436,425	3,279,610.1	0.88	5.77	1.00	5.75
2011												
January	74,988	74,988	75,395	436,439	812,816	1,197.4	36,262,171	3,015,564.7	2.07	5.82	1.01	5.79
February	132,501	132,501	133,158	773,398	1,719,265	2,120.9	35,546,051	2,709,230.2	3.73	5.84	1.00	5.81
March	52,396	52,396	52,660	306,824	712,843	841.3	35,512,063	2,994,938.0	1.48	5.86	1.01	5.83
April	8,747	8,747	8,786	49,983	107,655	137.0	37,953,487	3,102,026.5	0.23	5.71	1.00	5.69
May	2,686	2,686	2,704	15,142	30,253	41.6	38,479,084	3,211,061.4	0.07	5.64	1.01	5.60
June	1,572	1,572	1,582	8,679	17,021	23.8	38,456,033	3,102,257.4	0.04	5.52	1.01	5.49
July	972	972	979	5,359	10,435	14.7	38,086,525	3,176,649.6	0.03	5.51	1.01	5.47
August	1,294	1,294	1,309	7,298	13,921	20.1	38,050,840	3,170,287.1	0.03	5.64	1.01	5.58
September	2,858	2,858	2,875	15,715	29,732	43.2	38,183,769	3,062,966.6	0.07	5.50	1.01	5.47
October	4,856	4,856	4,878	26,693	50,188	73.3	38,209,487	3,179,945.3	0.13	5.50	1.00	5.47
November	6,242	6,242	6,289	34,312	64,159	94.3	38,417,759	3,089,377.8	0.16	5.50	1.01	5.46
December	8,381	8,381	8,466	46,384	86,173	127.4	38,744,074	3,221,171.0	0.22	5.53	1.01	5.48
2012												
January	9,461	9,461	9,518	53,052	98,095	145.6	35,667,729	2,970,471.6	0.27	5.61	1.01	5.57
February	21,720	21,720	21,818	125,870	225,313	345.3	35,483,518	2,775,021.6	0.61	5.80	1.00	5.77
March	35,382	35,382	35,513	207,053	367,341	567.4	41,192,589	2,972,225.2	0.86	5.85	1.00	5.83
April	14,132	14,132	14,239	81,054	145,852	222.2	40,563,353	3,317,867.8	0.35	5.74	1.01	5.69
May	7,456	7,456	7,495	42,201	76,736	115.7	41,105,220	3,430,790.7	0.18	5.66	1.01	5.63
June	3,379	3,379	3,400	18,850	35,209	51.7	41,087,335	3,314,718.1	0.08	5.58	1.01	5.54
July	1,775	1,775	1,783	9,762	17,897	26.8	40,543,564	3,383,336.9	0.04	5.50	1.00	5.48
August	2,167	2,167	2,180	11,898	22,090	32.6	40,481,360	3,375,711.1	0.05	5.49	1.01	5.46
September	3,201	3,201	3,224	17,659	32,670	48.4	40,615,713	3,256,563.0	0.08	5.52	1.01	5.48
October	7,252	7,252	7,309	41,653	74,460	114.3	40,628,757	3,379,985.7	0.18	5.74	1.01	5.70
November	26,902	26,902	27,035	157,179	275,873	431.1	40,816,772	3,284,455.6	0.66	5.84	1.00	5.81
December	142,343	142,343	143,170	836,601	1,534,215	2,295.4	41,047,394	3,411,641.1	3.47	5.88	1.01	5.84
2013												

Table 5a: Summary of Incident Influenza Antiviral Drug Use among Patients with Medical and Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year/Month

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
2010												
January	221,978	221,978	223,537	1,289,152	2,830,338	3,536.7	38,352,214	3,186,567.7	5.79	5.81	1.01	5.77
February	86,140	86,140	86,554	486,314	1,156,091	1,333.3	37,639,086	2,867,022.0	2.29	5.65	1.00	5.62
March	56,860	56,860	57,113	323,226	843,602	885.9	37,703,788	3,181,167.6	1.51	5.68	1.00	5.66
April	19,893	19,893	19,964	112,794	279,907	309.1	40,178,806	3,286,457.6	0.50	5.67	1.00	5.65
May	4,698	4,698	4,722	26,210	58,430	71.9	40,711,748	3,400,712.4	0.12	5.58	1.01	5.55
June	2,057	2,057	2,068	11,169	24,236	30.6	40,705,609	3,286,409.3	0.05	5.43	1.01	5.40
July	1,511	1,511	1,521	8,388	18,200	23.1	40,433,222	3,376,857.5	0.04	5.55	1.01	5.51
August	1,975	1,975	2,000	11,327	24,326	31.1	40,361,564	3,366,354.0	0.05	5.74	1.01	5.66
September	4,486	4,486	4,528	25,156	54,016	69.2	40,745,059	3,248,710.0	0.11	5.61	1.01	5.56
October	9,064	9,064	9,129	51,110	108,945	140.3	40,685,552	3,389,110.5	0.22	5.64	1.01	5.60
November	17,540	17,540	17,639	99,117	185,108	271.9	40,887,423	3,291,853.1	0.43	5.65	1.01	5.62
December	101,935	101,935	102,337	571,807	1,041,149	1,568.2	41,032,106	3,407,900.9	2.48	5.61	1.00	5.59
2014												
January	136,599	136,599	137,246	766,273	1,484,525	2,101.2	37,608,919	3,130,938.2	3.63	5.61	1.00	5.58
February	54,414	54,414	54,632	303,324	553,938	831.3	36,967,827	2,819,367.7	1.47	5.57	1.00	5.55
March	27,615	27,615	27,743	153,185	281,148	419.9	37,204,543	3,141,255.1	0.74	5.55	1.00	5.52
April	22,458	22,458	22,546	127,135	228,517	348.3	40,881,912	3,345,758.4	0.55	5.66	1.00	5.64
May	9,736	9,736	9,770	54,356	98,122	148.9	41,655,173	3,465,518.2	0.23	5.58	1.00	5.56
June	3,353	3,353	3,369	18,302	33,876	50.2	41,983,874	3,360,145.0	0.08	5.46	1.00	5.43
July	2,099	2,099	2,116	11,492	21,315	31.5	42,038,794	3,477,313.1	0.05	5.47	1.01	5.43
August	2,269	2,269	2,285	12,643	22,992	34.7	41,683,208	3,467,412.1	0.05	5.57	1.01	5.53
September	4,772	4,772	4,810	26,762	48,977	73.5	41,710,487	3,347,743.3	0.11	5.61	1.01	5.56
October	9,009	9,009	9,075	51,491	92,068	141.2	41,689,341	3,471,155.9	0.22	5.72	1.01	5.67
November	28,471	28,471	28,604	164,333	295,046	450.9	41,865,582	3,367,832.1	0.68	5.77	1.00	5.75
December	228,808	228,808	230,423	1,346,406	2,359,611	3,694.0	41,800,603	3,471,949.3	5.47	5.88	1.01	5.84
2015												
January	175,560	175,560	176,702	1,017,692	1,780,798	2,791.5	36,938,863	3,068,056.6	4.75	5.80	1.01	5.76
February	83,742	83,742	84,154	475,164	845,341	1,302.5	35,796,405	2,725,305.7	2.34	5.67	1.00	5.65
March	49,645	49,645	49,836	278,226	500,382	762.5	36,108,595	3,046,740.7	1.37	5.60	1.00	5.58
April	21,157	21,157	21,243	116,724	212,384	319.8	39,889,519	3,190,399.0	0.53	5.52	1.00	5.49
May	6,446	6,446	6,482	35,030	64,846	96.1	40,280,303	3,319,624.1	0.16	5.43	1.01	5.40
June	2,642	2,642	2,656	13,876	26,249	38.1	40,211,360	3,243,341.2	0.07	5.25	1.01	5.22
July	1,213	1,213	1,221	6,675	12,109	18.3	28,381,741	2,372,484.7	0.04	5.50	1.01	5.47
August	1,128	1,128	1,143	6,186	11,478	17.0	24,559,207	2,048,900.7	0.05	5.48	1.01	5.41
September	2,577	2,577	2,600	13,392	24,797	36.8	24,572,346	1,975,720.8	0.10	5.20	1.01	5.15
October	2,484	2,484	2,500	12,700	23,249	34.8	14,996,762	1,254,348.6	0.17	5.11	1.01	5.08
November	431	431	432	2,140	4,263	5.9	5,326,075	404,979.7	0.08	4.97	1.00	4.95
December	622	622	624	2,850	5,713	7.8	4,008,669	324,003.4	0.16	4.58	1.00	4.57
Incident Use of Oseltamivir Capsules (90 day washout)												
2010												

Table 5a: Summary of Incident Influenza Antiviral Drug Use among Patients with Medical and Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year/Month

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
2010												
January	21,718	21,718	21,814	119,620	232,857	327.8	37,004,257	3,066,248.9	0.59	5.51	1.00	5.48
February	17,727	17,727	17,812	98,356	188,933	269.9	36,482,099	2,779,394.6	0.49	5.55	1.00	5.52
March	16,301	16,301	16,357	91,054	173,229	249.6	36,397,847	3,075,301.1	0.45	5.59	1.00	5.57
April	5,167	5,167	5,202	28,184	53,676	77.3	38,854,137	3,179,557.8	0.13	5.45	1.01	5.42
May	2,658	2,658	2,675	14,370	27,572	39.5	39,344,617	3,282,009.7	0.07	5.41	1.01	5.37
June	1,915	1,915	1,927	10,314	19,521	28.3	39,385,421	3,171,634.7	0.05	5.39	1.01	5.35
July	1,313	1,313	1,325	7,106	13,498	19.5	39,046,756	3,257,695.9	0.03	5.41	1.01	5.36
August	1,800	1,800	1,812	10,058	18,517	27.6	38,980,772	3,247,107.9	0.05	5.59	1.01	5.55
September	3,608	3,608	3,640	20,295	37,381	55.8	39,044,674	3,128,607.0	0.09	5.63	1.01	5.58
October	5,788	5,788	5,845	32,075	59,771	88.3	38,999,627	3,244,339.4	0.15	5.54	1.01	5.49
November	10,794	10,794	10,851	61,111	112,918	167.8	39,176,336	3,150,206.2	0.28	5.66	1.01	5.63
December	34,405	34,405	34,543	198,670	351,945	544.6	39,424,030	3,278,834.6	0.87	5.77	1.00	5.75
2011												
January	74,844	74,844	75,248	435,535	811,159	1,194.9	36,239,710	3,014,208.0	2.07	5.82	1.01	5.79
February	131,930	131,930	132,584	769,820	1,711,246	2,111.1	35,483,979	2,705,926.8	3.72	5.84	1.00	5.81
March	51,974	51,974	52,224	304,239	705,900	834.1	35,348,919	2,985,860.8	1.47	5.85	1.00	5.83
April	8,523	8,523	8,560	48,708	104,384	133.5	37,721,125	3,083,846.2	0.23	5.71	1.00	5.69
May	2,615	2,615	2,630	14,663	29,469	40.2	38,398,940	3,197,606.7	0.07	5.61	1.01	5.58
June	1,529	1,529	1,536	8,400	16,473	23.0	38,440,742	3,099,176.2	0.04	5.49	1.00	5.47
July	967	967	974	5,324	10,375	14.6	38,082,566	3,176,026.3	0.03	5.51	1.01	5.47
August	1,273	1,273	1,286	7,093	13,621	19.5	38,048,677	3,170,049.2	0.03	5.57	1.01	5.52
September	2,841	2,841	2,858	15,630	29,562	42.9	38,182,167	3,062,821.5	0.07	5.50	1.01	5.47
October	4,842	4,842	4,863	26,603	50,028	73.0	38,207,377	3,179,800.3	0.13	5.49	1.00	5.47
November	6,203	6,203	6,246	34,061	63,686	93.6	38,412,650	3,089,095.1	0.16	5.49	1.01	5.45
December	8,308	8,308	8,391	45,954	85,385	126.3	38,735,282	3,220,589.1	0.21	5.53	1.01	5.48
2012												
January	9,406	9,406	9,460	52,634	97,438	144.5	35,657,894	2,969,729.8	0.26	5.60	1.01	5.56
February	21,644	21,644	21,740	125,422	224,496	344.0	35,470,374	2,774,123.2	0.61	5.79	1.00	5.77
March	35,290	35,290	35,419	206,468	366,291	565.8	41,171,787	2,970,963.9	0.86	5.85	1.00	5.83
April	14,068	14,068	14,172	80,697	145,198	221.2	40,508,283	3,314,981.3	0.35	5.74	1.01	5.69
May	7,405	7,405	7,442	41,946	76,216	115.0	41,032,899	3,424,724.3	0.18	5.66	1.00	5.64
June	3,347	3,347	3,363	18,652	34,833	51.1	41,058,783	3,310,773.7	0.08	5.57	1.00	5.55
July	1,762	1,762	1,770	9,692	17,757	26.6	40,530,145	3,381,712.6	0.04	5.50	1.00	5.48
August	2,151	2,151	2,163	11,798	21,900	32.4	40,475,112	3,374,940.8	0.05	5.48	1.01	5.45
September	3,184	3,184	3,207	17,564	32,500	48.2	40,612,427	3,256,211.5	0.08	5.52	1.01	5.48
October	7,223	7,223	7,279	41,418	74,110	113.6	40,625,083	3,379,713.1	0.18	5.73	1.01	5.69
November	26,856	26,856	26,981	156,738	275,210	429.9	40,809,916	3,284,054.8	0.66	5.84	1.00	5.81
December	142,187	142,187	143,004	835,583	1,532,288	2,292.5	41,030,908	3,410,748.2	3.47	5.88	1.01	5.84
2013												
January	221,514	221,514	223,056	1,286,291	2,823,547	3,528.8	38,270,003	3,183,365.1	5.79	5.81	1.01	5.77

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	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
February	85,264	85,264	85,675	481,117	1,143,167	1,319.1	37,386,387	2,854,376.8	2.28	5.64	1.00	5.62
March	55,338	55,338	55,573	314,113	817,118	860.9	37,365,104	3,153,404.4	1.48	5.68	1.00	5.65
April	19,453	19,453	19,521	110,048	272,581	301.6	39,989,161	3,263,534.6	0.49	5.66	1.00	5.64
May	4,615	4,615	4,638	25,684	57,328	70.5	40,615,611	3,389,451.6	0.11	5.57	1.00	5.54
June	2,017	2,017	2,025	10,937	23,782	30.0	40,674,856	3,281,582.6	0.05	5.42	1.00	5.40
July	1,494	1,494	1,504	8,296	18,030	22.8	40,426,156	3,375,602.3	0.04	5.55	1.01	5.52
August	1,950	1,950	1,968	10,965	23,850	30.1	40,358,387	3,365,975.9	0.05	5.62	1.01	5.57
September	4,468	4,468	4,497	24,706	53,402	67.9	40,742,806	3,248,500.9	0.11	5.53	1.01	5.49
October	9,039	9,039	9,103	50,965	108,691	139.9	40,682,063	3,388,888.6	0.22	5.64	1.01	5.60
November	17,473	17,473	17,558	98,148	183,800	269.2	40,879,249	3,291,408.3	0.43	5.62	1.00	5.59
December	101,781	101,781	102,174	570,861	1,039,502	1,565.6	41,015,869	3,406,906.6	2.48	5.61	1.00	5.59
2014												
January	136,349	136,349	136,984	764,618	1,481,611	2,096.6	37,567,116	3,128,895.9	3.63	5.61	1.00	5.58
February	54,154	54,154	54,369	301,794	551,062	827.1	36,801,706	2,811,703.8	1.47	5.57	1.00	5.55
March	27,199	27,199	27,322	150,810	276,762	413.3	36,977,348	3,122,558.0	0.74	5.54	1.00	5.52
April	22,184	22,184	22,272	125,474	225,677	343.8	40,761,649	3,330,718.7	0.54	5.66	1.00	5.63
May	9,661	9,661	9,694	53,932	97,340	147.7	41,599,057	3,459,044.0	0.23	5.58	1.00	5.56
June	3,298	3,298	3,313	18,003	33,306	49.3	41,945,683	3,356,364.2	0.08	5.46	1.00	5.43
July	2,081	2,081	2,095	11,378	21,107	31.2	42,022,250	3,475,136.1	0.05	5.47	1.01	5.43
August	2,246	2,246	2,258	12,403	22,648	34.0	41,677,514	3,466,599.5	0.05	5.52	1.01	5.49
September	4,749	4,749	4,786	26,620	48,733	73.1	41,707,050	3,347,404.1	0.11	5.61	1.01	5.56
October	8,985	8,985	9,051	51,356	91,818	140.9	41,684,941	3,470,853.6	0.22	5.72	1.01	5.67
November	28,421	28,421	28,552	164,041	294,523	450.1	41,856,535	3,367,311.8	0.68	5.77	1.00	5.75
December	228,566	228,566	230,166	1,344,935	2,356,968	3,689.8	41,782,934	3,470,878.9	5.47	5.88	1.01	5.84
2015												
January	175,270	175,270	176,405	1,015,742	1,777,545	2,786.1	36,857,843	3,065,025.6	4.76	5.80	1.01	5.76
February	82,978	82,978	83,377	470,338	837,336	1,289.2	35,484,345	2,709,332.5	2.34	5.67	1.00	5.64
March	48,462	48,462	48,640	270,649	488,200	741.7	35,789,409	3,016,765.4	1.35	5.58	1.00	5.56
April	20,734	20,734	20,810	114,119	208,024	312.6	39,695,917	3,169,117.8	0.52	5.50	1.00	5.48
May	6,358	6,358	6,390	34,500	63,904	94.6	40,193,149	3,309,047.9	0.16	5.43	1.01	5.40
June	2,603	2,603	2,617	13,651	25,839	37.5	40,176,429	3,238,595.3	0.06	5.24	1.01	5.22
July	1,189	1,189	1,197	6,550	11,869	18.0	28,374,381	2,371,370.4	0.04	5.51	1.01	5.47
August	1,115	1,115	1,130	6,121	11,348	16.8	24,556,739	2,048,572.5	0.05	5.49	1.01	5.42
September	2,569	2,569	2,589	13,314	24,681	36.6	24,570,776	1,975,569.5	0.10	5.18	1.01	5.14
October	2,473	2,473	2,489	12,649	23,157	34.7	14,995,636	1,254,274.5	0.16	5.11	1.01	5.08
November	431	431	432	2,140	4,263	5.9	5,325,667	404,957.0	0.08	4.97	1.00	4.95
December	620	620	622	2,840	5,693	7.8	4,008,251	323,978.1	0.15	4.58	1.00	4.57
Incident Use of Oseltamivir Powder (45 day washout)												
2010												
January	3,534	3,534	3,549	20,767	145,230	56.9	37,265,055	3,099,764.7	0.09	5.88	1.00	5.85

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February	3,757	3,757	3,775	22,473	156,808	61.6	36,556,227	2,790,311.3	0.10	5.98	1.00	5.95
March	3,915	3,915	3,934	23,509	165,112	64.4	36,438,922	3,079,772.8	0.11	6.00	1.00	5.98
April	1,001	1,001	1,009	6,079	40,477	16.6	38,893,656	3,182,798.5	0.03	6.07	1.01	6.02
May	403	403	407	2,527	16,240	7.0	39,372,271	3,284,939.6	0.01	6.27	1.01	6.21
June	214	214	215	1,273	8,590	3.5	39,395,257	3,173,041.3	0.01	5.95	1.00	5.92
July	158	158	159	941	6,100	2.6	39,051,525	3,258,241.2	0.00	5.96	1.01	5.92
August	198	198	198	1,225	7,715	3.4	38,983,749	3,247,421.3	0.01	6.19	1.00	6.19
September	514	514	515	3,162	21,592	8.7	39,047,085	3,128,812.8	0.01	6.15	1.00	6.14
October	1,223	1,223	1,230	7,575	52,976	20.8	39,002,909	3,244,560.3	0.03	6.19	1.01	6.16
November	4,042	4,042	4,067	24,481	179,628	67.2	39,183,035	3,150,601.1	0.10	6.06	1.01	6.02
December	14,903	14,903	14,979	89,559	659,916	245.6	39,436,425	3,279,610.1	0.38	6.01	1.01	5.98
2011												
January	28,031	28,031	28,192	166,887	1,247,203	457.8	36,262,171	3,015,564.7	0.77	5.95	1.01	5.92
February	20,697	20,697	20,778	122,843	903,579	336.7	35,546,051	2,709,230.2	0.58	5.94	1.00	5.91
March	3,176	3,176	3,191	18,925	133,860	51.8	35,512,063	2,994,938.0	0.09	5.96	1.00	5.93
April	330	330	331	1,965	13,180	5.4	37,953,487	3,102,026.5	0.01	5.95	1.00	5.94
May	59	59	59	390	2,505	1.1	38,479,084	3,211,061.4	0.00	6.61	1.00	6.61
June	30	30	31	200	1,708	0.6	38,456,033	3,102,257.4	0.00	6.67	1.03	6.45
July	18	18	18	131	855	0.4	38,086,525	3,176,649.6	0.00	7.28	1.00	7.28
August	43	43	43	283	3,580	0.8	38,050,840	3,170,287.1	0.00	6.58	1.00	6.58
September	235	235	236	1,436	21,030	3.9	38,183,769	3,062,966.6	0.01	6.11	1.00	6.08
October	581	581	584	3,784	53,173	10.4	38,209,487	3,179,945.3	0.02	6.51	1.01	6.48
November	836	836	838	5,425	77,935	14.9	38,417,759	3,089,377.8	0.02	6.49	1.00	6.47
December	1,275	1,275	1,282	8,296	117,542	22.7	38,744,074	3,221,171.0	0.03	6.51	1.01	6.47
2012												
January	1,805	1,805	1,818	11,942	174,044	32.7	35,667,729	2,970,471.6	0.05	6.62	1.01	6.57
February	7,195	7,195	7,235	47,252	729,590	129.6	35,483,518	2,775,021.6	0.20	6.57	1.01	6.53
March	14,264	14,264	14,336	92,955	1,427,945	254.7	41,192,589	2,972,225.2	0.35	6.52	1.01	6.48
April	4,310	4,310	4,334	28,362	431,198	77.7	40,563,353	3,317,867.8	0.11	6.58	1.01	6.54
May	2,421	2,421	2,429	15,911	246,334	43.6	41,105,220	3,430,790.7	0.06	6.57	1.00	6.55
June	913	913	916	6,112	91,065	16.7	41,087,335	3,314,718.1	0.02	6.69	1.00	6.67
July	329	329	331	2,143	32,205	5.9	40,543,564	3,383,336.9	0.01	6.51	1.01	6.47
August	309	309	310	2,036	29,020	5.6	40,481,360	3,375,711.1	0.01	6.59	1.01	6.57
September	541	541	542	3,638	53,497	10.0	40,615,713	3,256,563.0	0.01	6.72	1.00	6.71
October	2,085	2,085	2,093	13,996	209,518	38.4	40,628,757	3,379,985.7	0.05	6.71	1.00	6.69
November	10,377	10,377	10,440	67,942	1,052,715	186.5	40,816,772	3,284,455.6	0.25	6.55	1.01	6.51
December	46,604	46,604	46,840	302,856	4,729,648	830.6	41,047,394	3,411,641.1	1.14	6.50	1.01	6.47
2013												
January	37,263	37,263	37,520	241,386	3,631,094	662.3	38,352,214	3,186,567.7	0.97	6.48	1.01	6.43
February	18,103	18,103	18,206	115,728	1,802,607	317.3	37,639,086	2,867,022.0	0.48	6.39	1.01	6.36

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March	7,485	7,485	7,528	48,373	730,767	132.6	37,703,788	3,181,167.6	0.20	6.46	1.01	6.43
April	1,866	1,866	1,873	12,578	171,647	34.4	40,178,806	3,286,457.6	0.05	6.74	1.00	6.72
May	262	262	263	1,759	25,352	4.8	40,711,748	3,400,712.4	0.01	6.71	1.00	6.69
June	71	71	72	452	6,200	1.2	40,705,609	3,286,409.3	0.00	6.37	1.01	6.28
July	46	46	46	321	4,009	0.9	40,433,222	3,376,857.5	0.00	6.98	1.00	6.98
August	83	83	83	543	7,280	1.5	40,361,564	3,366,354.0	0.00	6.54	1.00	6.54
September	295	295	296	1,991	26,454	5.5	40,745,059	3,248,710.0	0.01	6.75	1.00	6.73
October	1,092	1,092	1,100	7,316	103,886	20.1	40,685,552	3,389,110.5	0.03	6.70	1.01	6.65
November	4,322	4,322	4,347	29,328	425,202	80.5	40,887,423	3,291,853.1	0.11	6.79	1.01	6.75
December	27,617	27,617	27,758	182,595	2,667,868	500.7	41,032,106	3,407,900.9	0.67	6.61	1.01	6.58
2014												
January	30,023	30,023	30,187	198,232	2,861,009	543.4	37,608,919	3,130,938.2	0.80	6.60	1.01	6.57
February	11,771	11,771	11,838	77,499	1,148,708	212.4	36,967,827	2,819,367.7	0.32	6.58	1.01	6.55
March	5,770	5,770	5,800	38,955	583,122	106.8	37,204,543	3,141,255.1	0.16	6.75	1.01	6.72
April	4,593	4,593	4,614	31,168	470,143	85.4	40,881,912	3,345,758.4	0.11	6.79	1.00	6.76
May	2,024	2,024	2,033	13,444	206,346	36.8	41,655,173	3,465,518.2	0.05	6.64	1.00	6.61
June	557	557	561	3,710	54,549	10.2	41,983,874	3,360,145.0	0.01	6.66	1.01	6.61
July	266	266	267	1,798	25,918	4.9	42,038,794	3,477,313.1	0.01	6.76	1.00	6.73
August	349	349	353	2,407	33,516	6.6	41,683,208	3,467,412.1	0.01	6.90	1.01	6.82
September	816	816	821	5,341	77,813	14.6	41,710,487	3,347,743.3	0.02	6.55	1.01	6.51
October	1,961	1,961	1,972	13,330	194,920	36.5	41,689,341	3,471,155.9	0.05	6.80	1.01	6.76
November	9,833	9,833	9,888	65,381	1,029,888	179.5	41,865,582	3,367,832.1	0.23	6.65	1.01	6.61
December	74,160	74,160	74,508	473,657	7,451,856	1,298.5	41,800,603	3,471,949.3	1.77	6.39	1.00	6.36
2015												
January	40,987	40,987	41,199	269,976	4,049,295	740.3	36,938,863	3,068,056.6	1.11	6.59	1.01	6.55
February	18,208	18,208	18,281	119,311	1,816,193	326.9	35,796,405	2,725,305.7	0.51	6.55	1.00	6.53
March	8,946	8,946	8,981	58,980	917,419	161.6	36,108,595	3,046,740.7	0.25	6.59	1.00	6.57
April	3,066	3,066	3,086	20,528	312,735	56.2	39,889,519	3,190,399.0	0.08	6.70	1.01	6.65
May	991	991	996	6,520	99,834	17.9	40,280,303	3,319,624.1	0.02	6.58	1.01	6.55
June	284	284	287	1,811	26,202	5.0	40,211,360	3,243,341.2	0.01	6.38	1.01	6.31
July	72	72	72	440	6,486	1.2	28,381,741	2,372,484.7	0.00	6.11	1.00	6.11
August	81	81	82	500	8,445	1.4	24,559,207	2,048,900.7	0.00	6.17	1.01	6.10
September	281	281	282	1,655	25,764	4.5	24,572,346	1,975,720.8	0.01	5.89	1.00	5.87
October	244	244	245	1,438	22,105	3.9	14,996,762	1,254,348.6	0.02	5.89	1.00	5.87
November	26	26	26	140	2,415	0.4	5,326,075	404,979.7	0.00	5.38	1.00	5.38
December	48	48	48	221	3,645	0.6	4,008,669	324,003.4	0.01	4.60	1.00	4.60
Incident Use of Oseltamivir Powder (90 day washout)												
2010												
January	3,387	3,387	3,401	19,873	139,360	54.5	37,004,257	3,066,248.9	0.09	5.87	1.00	5.84
February	3,691	3,691	3,708	22,066	154,133	60.5	36,482,099	2,779,394.6	0.10	5.98	1.00	5.95

Table 5a: Summary of Incident Influenza Antiviral Drug Use among Patients with Medical and Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year/Month

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
March	3,873	3,873	3,889	23,238	163,362	63.7	36,397,847	3,075,301.1	0.11	6.00	1.00	5.98
April	983	983	991	5,985	39,827	16.4	38,854,137	3,179,557.8	0.03	6.09	1.01	6.04
May	387	387	390	2,444	15,685	6.7	39,344,617	3,282,009.7	0.01	6.32	1.01	6.27
June	207	207	208	1,233	8,330	3.4	39,385,421	3,171,634.7	0.01	5.96	1.00	5.93
July	152	152	153	911	5,850	2.5	39,046,756	3,257,695.9	0.00	5.99	1.01	5.95
August	195	195	195	1,200	7,615	3.3	38,980,772	3,247,107.9	0.01	6.15	1.00	6.15
September	511	511	512	3,147	21,492	8.6	39,044,674	3,128,607.0	0.01	6.16	1.00	6.15
October	1,217	1,217	1,224	7,545	52,776	20.7	38,999,627	3,244,339.4	0.03	6.20	1.01	6.16
November	4,030	4,030	4,055	24,414	179,178	67.0	39,176,336	3,150,206.2	0.10	6.06	1.01	6.02
December	14,880	14,880	14,956	89,438	659,026	245.3	39,424,030	3,278,834.6	0.38	6.01	1.01	5.98
2011												
January	27,945	27,945	28,105	166,360	1,243,868	456.3	36,239,710	3,014,208.0	0.77	5.95	1.01	5.92
February	20,482	20,482	20,561	121,583	894,656	333.3	35,483,979	2,705,926.8	0.58	5.94	1.00	5.91
March	3,127	3,127	3,140	18,650	131,927	51.1	35,348,919	2,985,860.8	0.09	5.96	1.00	5.94
April	317	317	318	1,895	12,658	5.2	37,721,125	3,083,846.2	0.01	5.98	1.00	5.96
May	55	55	55	370	2,387	1.0	38,398,940	3,197,606.7	0.00	6.73	1.00	6.73
June	29	29	30	195	1,683	0.6	38,440,742	3,099,176.2	0.00	6.72	1.03	6.50
July	18	18	18	131	855	0.4	38,082,566	3,176,026.3	0.00	7.28	1.00	7.28
August	43	43	43	283	3,580	0.8	38,048,677	3,170,049.2	0.00	6.58	1.00	6.58
September	234	234	235	1,430	20,970	3.9	38,182,167	3,062,821.5	0.01	6.11	1.00	6.09
October	580	580	583	3,779	53,053	10.4	38,207,377	3,179,800.3	0.02	6.52	1.01	6.48
November	833	833	835	5,405	77,575	14.8	38,412,650	3,089,095.1	0.02	6.49	1.00	6.47
December	1,269	1,269	1,276	8,266	117,122	22.6	38,735,282	3,220,589.1	0.03	6.51	1.01	6.48
2012												
January	1,802	1,802	1,815	11,916	173,804	32.7	35,657,894	2,969,729.8	0.05	6.61	1.01	6.57
February	7,181	7,181	7,221	47,176	728,390	129.4	35,470,374	2,774,123.2	0.20	6.57	1.01	6.53
March	14,244	14,244	14,316	92,833	1,426,025	254.4	41,171,787	2,970,963.9	0.35	6.52	1.01	6.48
April	4,299	4,299	4,323	28,291	430,118	77.5	40,508,283	3,314,981.3	0.11	6.58	1.01	6.54
May	2,402	2,402	2,409	15,763	244,774	43.2	41,032,899	3,424,724.3	0.06	6.56	1.00	6.54
June	908	908	911	6,087	90,645	16.7	41,058,783	3,310,773.7	0.02	6.70	1.00	6.68
July	322	322	324	2,104	31,615	5.8	40,530,145	3,381,712.6	0.01	6.53	1.01	6.49
August	308	308	309	2,031	28,900	5.6	40,475,112	3,374,940.8	0.01	6.59	1.00	6.57
September	541	541	542	3,638	53,497	10.0	40,612,427	3,256,211.5	0.01	6.72	1.00	6.71
October	2,082	2,082	2,090	13,979	209,218	38.3	40,625,083	3,379,713.1	0.05	6.71	1.00	6.69
November	10,366	10,366	10,429	67,870	1,051,515	186.3	40,809,916	3,284,054.8	0.25	6.55	1.01	6.51
December	46,537	46,537	46,772	302,467	4,723,908	829.5	41,030,908	3,410,748.2	1.13	6.50	1.01	6.47
2013												
January	37,118	37,118	37,374	240,491	3,617,198	659.8	38,270,003	3,183,365.1	0.97	6.48	1.01	6.43
February	17,658	17,658	17,758	112,958	1,759,382	309.7	37,386,387	2,854,376.8	0.47	6.40	1.01	6.36
March	7,161	7,161	7,200	46,347	701,334	127.1	37,365,104	3,153,404.4	0.19	6.47	1.01	6.44

Table 5a: Summary of Incident Influenza Antiviral Drug Use among Patients with Medical and Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year/Month

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
April	1,801	1,801	1,807	12,122	166,167	33.2	39,989,161	3,263,534.6	0.05	6.73	1.00	6.71
May	257	257	258	1,732	25,047	4.7	40,615,611	3,389,451.6	0.01	6.74	1.00	6.71
June	68	68	69	437	5,960	1.2	40,674,856	3,281,582.6	0.00	6.43	1.01	6.33
July	46	46	46	321	4,009	0.9	40,426,156	3,375,602.3	0.00	6.98	1.00	6.98
August	82	82	82	537	7,220	1.5	40,358,387	3,365,975.9	0.00	6.55	1.00	6.55
September	294	294	295	1,983	26,334	5.4	40,742,806	3,248,500.9	0.01	6.74	1.00	6.72
October	1,092	1,092	1,100	7,316	103,886	20.1	40,682,063	3,388,888.6	0.03	6.70	1.01	6.65
November	4,315	4,315	4,340	29,297	424,727	80.4	40,879,249	3,291,408.3	0.11	6.79	1.01	6.75
December	27,563	27,563	27,702	182,286	2,662,865	499.8	41,015,869	3,406,906.6	0.67	6.61	1.01	6.58
2014												
January	29,943	29,943	30,104	197,707	2,853,269	542.0	37,567,116	3,128,895.9	0.80	6.60	1.01	6.57
February	11,643	11,643	11,709	76,681	1,136,854	210.2	36,801,706	2,811,703.8	0.32	6.59	1.01	6.55
March	5,643	5,643	5,669	38,112	571,382	104.4	36,977,348	3,122,558.0	0.15	6.75	1.00	6.72
April	4,462	4,462	4,481	30,298	458,488	83.0	40,761,649	3,330,718.7	0.11	6.79	1.00	6.76
May	1,997	1,997	2,006	13,274	204,066	36.4	41,599,057	3,459,044.0	0.05	6.65	1.00	6.62
June	555	555	558	3,685	54,189	10.1	41,945,683	3,356,364.2	0.01	6.64	1.01	6.60
July	264	264	265	1,788	25,798	4.9	42,022,250	3,475,136.1	0.01	6.77	1.00	6.75
August	347	347	351	2,397	33,336	6.6	41,677,514	3,466,599.5	0.01	6.91	1.01	6.83
September	815	815	820	5,336	77,753	14.6	41,707,050	3,347,404.1	0.02	6.55	1.01	6.51
October	1,956	1,956	1,967	13,296	194,560	36.5	41,684,941	3,470,853.6	0.05	6.80	1.01	6.76
November	9,819	9,819	9,874	65,290	1,028,588	179.2	41,856,535	3,367,311.8	0.23	6.65	1.01	6.61
December	74,056	74,056	74,403	473,077	7,443,059	1,296.9	41,782,934	3,470,878.9	1.77	6.39	1.00	6.36
2015												
January	40,886	40,886	41,097	269,340	4,039,825	738.6	36,857,843	3,065,025.6	1.11	6.59	1.01	6.55
February	17,912	17,912	17,982	117,436	1,786,801	321.7	35,484,345	2,709,332.5	0.50	6.56	1.00	6.53
March	8,544	8,544	8,577	56,360	878,614	154.4	35,789,409	3,016,765.4	0.24	6.60	1.00	6.57
April	2,969	2,969	2,989	19,891	303,552	54.5	39,695,917	3,169,117.8	0.07	6.70	1.01	6.65
May	964	964	969	6,356	97,437	17.4	40,193,149	3,309,047.9	0.02	6.59	1.01	6.56
June	283	283	286	1,809	26,172	5.0	40,176,429	3,238,595.3	0.01	6.39	1.01	6.33
July	70	70	70	429	6,366	1.2	28,374,381	2,371,370.4	0.00	6.13	1.00	6.13
August	81	81	82	500	8,445	1.4	24,556,739	2,048,572.5	0.00	6.17	1.01	6.10
September	281	281	282	1,655	25,764	4.5	24,570,776	1,975,569.5	0.01	5.89	1.00	5.87
October	244	244	245	1,438	22,105	3.9	14,995,636	1,254,274.5	0.02	5.89	1.00	5.87
November	26	26	26	140	2,415	0.4	5,325,667	404,957.0	0.00	5.38	1.00	5.38
December	48	48	48	221	3,645	0.6	4,008,251	323,978.1	0.01	4.60	1.00	4.60
Incident Use of Zanamivir (45 day washout)												
2010												
January	604	604	607	4,151	12,186	11.4	37,265,051	3,099,764.2	0.02	6.87	1.00	6.84
February	632	632	635	4,360	12,710	12.0	36,556,225	2,790,310.9	0.02	6.90	1.00	6.87
March	609	609	611	4,301	12,295	11.8	36,438,922	3,079,772.6	0.02	7.06	1.00	7.04

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	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
April	159	159	159	1,173	3,117	3.2	38,893,650	3,182,798.2	0.00	7.38	1.00	7.38
May	78	78	78	539	1,526	1.5	39,372,271	3,284,939.5	0.00	6.91	1.00	6.91
June	49	49	49	394	994	1.1	39,395,254	3,173,041.2	0.00	8.04	1.00	8.04
July	30	30	30	269	597	0.7	39,051,525	3,258,241.1	0.00	8.97	1.00	8.97
August	46	46	47	360	929	1.0	38,983,749	3,247,421.3	0.00	7.83	1.02	7.66
September	67	67	67	552	1,421	1.5	39,047,085	3,128,812.8	0.00	8.24	1.00	8.24
October	99	99	100	679	2,010	1.9	39,002,908	3,244,560.3	0.00	6.86	1.01	6.79
November	138	138	139	936	2,765	2.6	39,183,035	3,150,601.1	0.00	6.78	1.01	6.73
December	438	438	440	3,094	8,799	8.5	39,436,423	3,279,610.0	0.01	7.06	1.00	7.03
2011												
January	771	771	771	5,406	15,553	14.8	36,262,167	3,015,564.6	0.02	7.01	1.00	7.01
February	914	914	917	6,207	18,183	17.0	35,546,046	2,709,229.8	0.03	6.79	1.00	6.77
March	296	296	299	2,001	5,981	5.5	35,512,042	2,994,936.4	0.01	6.76	1.01	6.69
April	44	44	45	350	886	1.0	37,953,476	3,102,025.3	0.00	7.95	1.02	7.78
May	22	22	22	170	440	0.5	38,479,083	3,211,061.1	0.00	7.73	1.00	7.73
June	21	21	22	201	467	0.6	38,456,033	3,102,257.4	0.00	9.57	1.05	9.14
July	14	14	14	177	280	0.5	38,086,525	3,176,649.6	0.00	12.64	1.00	12.64
August	16	16	18	120	360	0.3	38,050,840	3,170,287.1	0.00	7.50	1.13	6.67
September	31	31	33	233	610	0.7	38,183,769	3,062,966.6	0.00	7.52	1.06	7.06
October	37	37	37	294	741	0.8	38,209,487	3,179,945.3	0.00	7.95	1.00	7.95
November	56	56	56	465	1,125	1.3	38,417,759	3,089,377.8	0.00	8.30	1.00	8.30
December	73	73	77	652	1,585	1.8	38,744,074	3,221,171.0	0.00	8.93	1.05	8.47
2012												
January	66	66	67	491	1,235	1.3	35,667,729	2,970,471.6	0.00	7.44	1.02	7.33
February	114	114	117	844	2,410	2.3	35,483,518	2,775,021.5	0.00	7.40	1.03	7.21
March	156	156	160	1,403	3,205	3.8	41,192,589	2,972,225.2	0.00	8.99	1.03	8.77
April	69	69	69	498	1,490	1.4	40,563,341	3,317,867.3	0.00	7.22	1.00	7.22
May	35	35	35	350	740	1.0	41,105,215	3,430,790.2	0.00	10.00	1.00	10.00
June	25	25	25	196	464	0.5	41,087,333	3,314,717.9	0.00	7.84	1.00	7.84
July	11	11	11	130	205	0.4	40,543,564	3,383,336.8	0.00	11.82	1.00	11.82
August	25	25	25	226	481	0.6	40,481,360	3,375,711.0	0.00	9.04	1.00	9.04
September	26	26	27	283	560	0.8	40,615,713	3,256,563.0	0.00	10.88	1.04	10.48
October	30	30	31	190	640	0.5	40,628,757	3,379,985.7	0.00	6.33	1.03	6.13
November	114	114	116	864	2,258	2.4	40,816,770	3,284,455.6	0.00	7.58	1.02	7.45
December	363	363	370	2,832	7,256	7.8	41,047,393	3,411,641.0	0.01	7.80	1.02	7.65
2013												
January	376	376	377	2,819	7,418	7.7	38,352,194	3,186,566.9	0.01	7.50	1.00	7.48
February	116	116	116	940	2,256	2.6	37,639,067	2,867,020.0	0.00	8.10	1.00	8.10
March	66	66	67	548	1,350	1.5	37,703,761	3,181,165.0	0.00	8.30	1.02	8.18
April	40	40	40	369	793	1.0	40,178,799	3,286,456.3	0.00	9.23	1.00	9.23

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	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
May	17	17	17	218	340	0.6	40,711,744	3,400,711.8	0.00	12.82	1.00	12.82
June	14	14	14	213	300	0.6	40,705,609	3,286,409.2	0.00	15.21	1.00	15.21
July	7	7	7	60	140	0.2	40,433,222	3,376,857.5	0.00	8.57	1.00	8.57
August	7	7	7	95	140	0.3	40,361,564	3,366,354.0	0.00	13.57	1.00	13.57
September	26	26	26	172	504	0.5	40,745,059	3,248,710.0	0.00	6.62	1.00	6.62
October	38	38	38	313	744	0.9	40,685,552	3,389,110.5	0.00	8.24	1.00	8.24
November	37	37	37	350	741	1.0	40,887,423	3,291,853.0	0.00	9.46	1.00	9.46
December	164	164	164	1,238	3,076	3.4	41,032,102	3,407,900.7	0.00	7.55	1.00	7.55
2014												
January	110	110	110	830	2,012	2.3	37,608,900	3,130,937.6	0.00	7.55	1.00	7.55
February	48	48	48	337	940	0.9	36,967,805	2,819,365.4	0.00	7.02	1.00	7.02
March	25	25	27	245	530	0.7	37,204,529	3,141,253.4	0.00	9.80	1.08	9.07
April	27	27	27	181	496	0.5	40,881,909	3,345,757.8	0.00	6.70	1.00	6.70
May	16	16	16	186	304	0.5	41,655,161	3,465,517.8	0.00	11.63	1.00	11.63
June	8	8	8	85	200	0.2	41,983,873	3,360,144.7	0.00	10.63	1.00	10.63
July	6	6	6	31	101	0.1	42,038,794	3,477,313.1	0.00	5.17	1.00	5.17
August	8	8	8	115	160	0.3	41,683,208	3,467,412.0	0.00	14.38	1.00	14.38
September	8	8	8	32	126	0.1	41,710,487	3,347,743.3	0.00	4.00	1.00	4.00
October	13	13	13	69	191	0.2	41,689,341	3,471,155.9	0.00	5.31	1.00	5.31
November	32	32	32	228	693	0.6	41,865,581	3,367,832.1	0.00	7.13	1.00	7.13
December	188	188	188	1,262	3,175	3.5	41,800,598	3,471,949.1	0.00	6.71	1.00	6.71
2015												
January	134	134	134	988	2,494	2.7	36,938,853	3,068,056.1	0.00	7.37	1.00	7.37
February	39	39	39	324	780	0.9	35,796,382	2,725,303.2	0.00	8.31	1.00	8.31
March	31	31	31	262	535	0.7	36,108,587	3,046,738.5	0.00	8.45	1.00	8.45
April	28	28	28	322	540	0.9	39,889,513	3,190,398.2	0.00	11.50	1.00	11.50
May	12	12	12	135	240	0.4	40,280,301	3,319,623.6	0.00	11.25	1.00	11.25
June	10	10	11	175	220	0.5	40,211,360	3,243,341.1	0.00	17.50	1.10	15.91
July	6	6	7	30	124	0.1	28,381,741	2,372,484.7	0.00	5.00	1.17	4.29
August	3	3	3	40	60	0.1	24,559,207	2,048,900.7	0.00	13.33	1.00	13.33
September	9	9	10	51	220	0.2	24,572,346	1,975,720.8	0.00	5.67	1.11	5.10
October	6	6	6	65	107	0.2	14,996,762	1,254,348.6	0.00	10.83	1.00	10.83
November	2	2	2	6	24	0.0	5,326,075	404,979.7	0.00	3.00	1.00	3.00
December	0	0	0	0	0	0.0	4,008,669	324,003.4	0.00	---	---	---
Incident Use of Zanamivir (90 day washout)												
2010												
January	589	589	592	4,041	11,886	11.1	37,004,233	3,066,246.7	0.02	6.86	1.01	6.83
February	621	621	624	4,305	12,490	11.8	36,482,095	2,779,393.4	0.02	6.93	1.00	6.90
March	595	595	597	4,219	12,015	11.6	36,397,842	3,075,300.6	0.02	7.09	1.00	7.07
April	152	152	152	1,107	2,973	3.0	38,854,132	3,179,557.5	0.00	7.28	1.00	7.28

Table 5a: Summary of Incident Influenza Antiviral Drug Use among Patients with Medical and Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year/Month

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
May	75	75	75	524	1,466	1.4	39,344,616	3,282,009.5	0.00	6.99	1.00	6.99
June	47	47	47	363	964	1.0	39,385,421	3,171,634.5	0.00	7.72	1.00	7.72
July	29	29	29	264	577	0.7	39,046,755	3,257,695.8	0.00	9.10	1.00	9.10
August	45	45	45	300	889	0.8	38,980,771	3,247,107.8	0.00	6.67	1.00	6.67
September	66	66	66	551	1,411	1.5	39,044,674	3,128,607.0	0.00	8.35	1.00	8.35
October	97	97	98	669	1,970	1.8	38,999,627	3,244,339.4	0.00	6.90	1.01	6.83
November	137	137	138	931	2,745	2.6	39,176,335	3,150,206.2	0.00	6.80	1.01	6.75
December	436	436	438	3,059	8,739	8.4	39,424,030	3,278,834.6	0.01	7.02	1.00	6.98
2011												
January	756	756	756	5,283	15,258	14.5	36,239,707	3,014,208.0	0.02	6.99	1.00	6.99
February	909	909	911	6,167	18,063	16.9	35,483,979	2,705,926.7	0.03	6.78	1.00	6.77
March	294	294	297	1,991	5,941	5.5	35,348,918	2,985,860.5	0.01	6.77	1.01	6.70
April	43	43	44	345	866	0.9	37,721,107	3,083,845.5	0.00	8.02	1.02	7.84
May	22	22	22	170	440	0.5	38,398,927	3,197,604.9	0.00	7.73	1.00	7.73
June	19	19	20	166	427	0.5	38,440,740	3,099,175.6	0.00	8.74	1.05	8.30
July	13	13	13	172	260	0.5	38,082,566	3,176,026.2	0.00	13.23	1.00	13.23
August	16	16	18	120	360	0.3	38,048,677	3,170,049.2	0.00	7.50	1.13	6.67
September	31	31	33	233	610	0.7	38,182,167	3,062,821.5	0.00	7.52	1.06	7.06
October	37	37	37	294	741	0.8	38,207,377	3,179,800.3	0.00	7.95	1.00	7.95
November	56	56	56	465	1,125	1.3	38,412,649	3,089,095.1	0.00	8.30	1.00	8.30
December	71	71	75	617	1,545	1.7	38,735,282	3,220,589.1	0.00	8.69	1.06	8.23
2012												
January	63	63	64	476	1,175	1.3	35,657,894	2,969,729.7	0.00	7.56	1.02	7.44
February	111	111	111	799	2,290	2.2	35,470,374	2,774,123.2	0.00	7.20	1.00	7.20
March	154	154	158	1,393	3,165	3.8	41,171,784	2,970,963.8	0.00	9.05	1.03	8.82
April	68	68	68	483	1,430	1.3	40,508,283	3,314,981.3	0.00	7.10	1.00	7.10
May	33	33	33	315	700	0.9	41,032,894	3,424,724.0	0.00	9.55	1.00	9.55
June	24	24	24	166	444	0.5	41,058,782	3,310,773.1	0.00	6.92	1.00	6.92
July	11	11	11	130	205	0.4	40,530,142	3,381,712.4	0.00	11.82	1.00	11.82
August	24	24	24	221	461	0.6	40,475,112	3,374,940.6	0.00	9.21	1.00	9.21
September	26	26	27	283	560	0.8	40,612,427	3,256,211.4	0.00	10.88	1.04	10.48
October	30	30	31	190	640	0.5	40,625,083	3,379,713.1	0.00	6.33	1.03	6.13
November	113	113	115	834	2,238	2.3	40,809,916	3,284,054.8	0.00	7.38	1.02	7.25
December	362	362	368	2,792	7,216	7.7	41,030,908	3,410,748.2	0.01	7.71	1.02	7.59
2013												
January	375	375	376	2,814	7,398	7.7	38,270,003	3,183,365.0	0.01	7.50	1.00	7.48
February	112	112	112	920	2,176	2.5	37,386,382	2,854,376.6	0.00	8.21	1.00	8.21
March	62	62	63	527	1,270	1.4	37,365,077	3,153,402.9	0.00	8.50	1.02	8.37
April	33	33	33	339	651	0.9	39,989,120	3,263,532.2	0.00	10.27	1.00	10.27
May	15	15	15	158	300	0.4	40,615,588	3,389,449.5	0.00	10.53	1.00	10.53

Table 5a: Summary of Incident Influenza Antiviral Drug Use among Patients with Medical and Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year/Month

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
June	14	14	14	213	300	0.6	40,674,847	3,281,581.6	0.00	15.21	1.00	15.21
July	6	6	6	55	120	0.2	40,426,153	3,375,601.9	0.00	9.17	1.00	9.17
August	7	7	7	95	140	0.3	40,358,387	3,365,975.9	0.00	13.57	1.00	13.57
September	24	24	24	137	464	0.4	40,742,806	3,248,500.9	0.00	5.71	1.00	5.71
October	38	38	38	313	744	0.9	40,682,063	3,388,888.6	0.00	8.24	1.00	8.24
November	35	35	35	315	701	0.9	40,879,249	3,291,408.3	0.00	9.00	1.00	9.00
December	158	158	158	1,215	2,972	3.3	41,015,867	3,406,906.5	0.00	7.69	1.00	7.69
2014												
January	109	109	109	820	1,992	2.2	37,567,114	3,128,895.8	0.00	7.52	1.00	7.52
February	45	45	45	312	880	0.9	36,801,702	2,811,703.7	0.00	6.93	1.00	6.93
March	23	23	25	210	490	0.6	36,977,306	3,122,556.2	0.00	9.13	1.09	8.40
April	26	26	26	176	476	0.5	40,761,628	3,330,716.5	0.00	6.77	1.00	6.77
May	16	16	16	186	304	0.5	41,599,044	3,459,042.9	0.00	11.63	1.00	11.63
June	6	6	6	60	140	0.2	41,945,680	3,356,363.9	0.00	10.00	1.00	10.00
July	5	5	5	26	81	0.1	42,022,246	3,475,135.7	0.00	5.20	1.00	5.20
August	7	7	7	85	140	0.2	41,677,514	3,466,599.4	0.00	12.14	1.00	12.14
September	8	8	8	32	126	0.1	41,707,050	3,347,404.1	0.00	4.00	1.00	4.00
October	12	12	12	64	171	0.2	41,684,940	3,470,853.6	0.00	5.33	1.00	5.33
November	30	30	30	213	633	0.6	41,856,535	3,367,311.8	0.00	7.10	1.00	7.10
December	185	185	185	1,242	3,115	3.4	41,782,934	3,470,878.9	0.00	6.71	1.00	6.71
2015												
January	129	129	129	958	2,394	2.6	36,857,842	3,065,025.5	0.00	7.43	1.00	7.43
February	34	34	34	294	680	0.8	35,484,341	2,709,332.2	0.00	8.65	1.00	8.65
March	25	25	25	222	415	0.6	35,789,355	3,016,763.6	0.00	8.88	1.00	8.88
April	26	26	26	282	500	0.8	39,695,876	3,169,115.3	0.00	10.85	1.00	10.85
May	11	11	11	130	220	0.4	40,193,141	3,309,046.5	0.00	11.82	1.00	11.82
June	9	9	10	145	200	0.4	40,176,421	3,238,594.8	0.00	16.11	1.11	14.50
July	5	5	6	25	104	0.1	28,374,381	2,371,370.2	0.00	5.00	1.20	4.17
August	3	3	3	40	60	0.1	24,556,739	2,048,572.5	0.00	13.33	1.00	13.33
September	7	7	8	41	180	0.1	24,570,776	1,975,569.5	0.00	5.86	1.14	5.13
October	6	6	6	65	107	0.2	14,995,636	1,254,274.5	0.00	10.83	1.00	10.83
November	2	2	2	6	24	0.0	5,325,667	404,957.0	0.00	3.00	1.00	3.00
December	0	0	0	0	0	0.0	4,008,251	323,978.1	0.00	---	---	---

Table 5b: Summary of Incident Influenza Antiviral Drug Use among Patients with Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year/Month

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member- Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Incident Use of Oseltamivir Capsules (45 day washout)												
2010												
January	23,226	23,226	23,338	128,105	248,875	351.1	39,224,996	3,264,534.7	0.59	5.52	1.00	5.49
February	18,685	18,685	18,782	103,812	198,935	284.9	38,498,654	2,939,059.1	0.49	5.56	1.01	5.53
March	17,012	17,012	17,069	95,137	180,428	260.8	38,373,892	3,243,814.4	0.44	5.59	1.00	5.57
April	5,430	5,430	5,468	29,598	56,322	81.2	40,933,188	3,350,102.0	0.13	5.45	1.01	5.41
May	2,810	2,810	2,832	15,401	29,186	42.3	41,530,496	3,458,277.3	0.07	5.48	1.01	5.44
June	2,025	2,025	2,038	10,983	20,692	30.1	41,439,682	3,339,443.5	0.05	5.42	1.01	5.39
July	1,388	1,388	1,401	7,558	14,292	20.7	41,092,000	3,429,360.5	0.03	5.45	1.01	5.39
August	1,887	1,887	1,899	10,559	19,524	29.0	41,016,991	3,417,962.7	0.05	5.60	1.01	5.56
September	3,806	3,806	3,841	21,601	39,435	59.4	41,034,772	3,293,410.0	0.09	5.68	1.01	5.62
October	6,048	6,048	6,118	33,734	62,603	92.9	40,989,919	3,411,040.1	0.15	5.58	1.01	5.51
November	11,210	11,210	11,277	63,595	117,234	174.7	41,169,377	3,311,502.6	0.27	5.67	1.01	5.64
December	35,854	35,854	36,011	207,757	366,788	569.6	41,424,084	3,446,056.3	0.87	5.79	1.00	5.77
2011												
January	77,593	77,593	78,052	453,538	839,851	1,244.6	38,194,029	3,176,566.7	2.03	5.85	1.01	5.81
February	136,698	136,698	137,442	801,248	1,764,972	2,197.3	37,449,059	2,854,751.3	3.65	5.86	1.01	5.83
March	54,663	54,663	54,975	322,279	737,121	883.9	37,421,357	3,156,469.4	1.46	5.90	1.01	5.86
April	9,439	9,439	9,492	54,730	114,756	150.0	40,691,033	3,326,379.5	0.23	5.80	1.01	5.77
May	2,880	2,880	2,900	16,356	32,225	44.9	41,293,493	3,445,120.7	0.07	5.68	1.01	5.64
June	1,684	1,684	1,696	9,364	18,163	25.7	41,291,118	3,330,723.2	0.04	5.56	1.01	5.52
July	1,020	1,020	1,027	5,615	11,022	15.4	40,931,889	3,414,116.6	0.02	5.50	1.01	5.47
August	1,378	1,378	1,393	7,777	14,797	21.4	40,913,313	3,409,203.9	0.03	5.64	1.01	5.58
September	3,061	3,061	3,081	16,840	31,794	46.3	41,071,519	3,295,404.1	0.07	5.50	1.01	5.47
October	5,215	5,215	5,247	28,840	53,943	79.2	41,115,597	3,422,197.0	0.13	5.53	1.01	5.50
November	6,640	6,640	6,700	36,752	68,381	101.0	41,347,053	3,325,427.5	0.16	5.53	1.01	5.49
December	8,973	8,973	9,062	49,726	92,159	136.6	41,701,240	3,467,438.3	0.22	5.54	1.01	5.49
2012												
January	10,124	10,124	10,193	57,506	105,006	157.9	38,480,376	3,204,847.5	0.26	5.68	1.01	5.64
February	23,136	23,136	23,252	135,538	239,721	371.8	38,310,992	2,995,414.0	0.60	5.86	1.01	5.83
March	37,715	37,715	37,890	223,181	391,168	611.7	44,493,793	3,210,785.1	0.85	5.92	1.00	5.89
April	15,427	15,427	15,612	90,406	159,369	247.9	43,828,912	3,585,650.4	0.35	5.86	1.01	5.79
May	8,052	8,052	8,118	46,455	82,937	127.3	44,440,006	3,709,179.2	0.18	5.77	1.01	5.72
June	3,615	3,615	3,638	20,241	37,603	55.5	44,438,656	3,585,627.1	0.08	5.60	1.01	5.56
July	1,907	1,907	1,916	10,478	19,230	28.7	43,908,998	3,664,784.7	0.04	5.49	1.00	5.47
August	2,353	2,353	2,368	13,032	24,080	35.8	43,862,376	3,658,424.5	0.05	5.54	1.01	5.50
September	3,458	3,458	3,483	19,159	35,294	52.5	44,074,092	3,531,525.5	0.08	5.54	1.01	5.50
October	7,849	7,849	7,920	45,871	81,008	125.9	44,111,180	3,670,437.1	0.18	5.84	1.01	5.79
November	28,764	28,764	28,955	169,711	295,444	465.7	44,316,639	3,567,474.5	0.65	5.90	1.01	5.86
December	154,710	154,710	155,869	921,101	1,661,651	2,528.0	44,565,220	3,705,526.2	3.47	5.95	1.01	5.91
2013												

Table 5b: Summary of Incident Influenza Antiviral Drug Use among Patients with Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year/Month

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member- Years	New Users / 1K			
									Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
January	243,323	243,323	245,573	1,439,024	3,057,155	3,948.8	41,651,233	3,461,555.6	5.84	5.91	1.01	5.86
February	92,430	92,430	92,940	526,333	1,221,910	1,443.2	40,892,154	3,115,354.9	2.26	5.69	1.01	5.66
March	60,133	60,133	60,452	343,743	880,019	942.3	40,976,553	3,458,068.7	1.47	5.72	1.01	5.69
April	21,269	21,269	21,354	121,261	294,881	332.4	43,767,230	3,580,803.3	0.49	5.70	1.00	5.68
May	5,037	5,037	5,070	28,197	62,046	77.4	44,350,192	3,705,511.0	0.11	5.60	1.01	5.56
June	2,260	2,260	2,271	12,313	26,425	33.8	44,356,723	3,582,139.1	0.05	5.45	1.00	5.42
July	1,666	1,666	1,680	9,333	19,768	25.7	44,088,149	3,683,363.6	0.04	5.60	1.01	5.56
August	2,178	2,178	2,218	12,873	26,679	35.4	44,030,863	3,673,744.9	0.05	5.91	1.02	5.80
September	4,923	4,923	4,983	27,853	58,753	76.7	44,431,432	3,547,115.7	0.11	5.66	1.01	5.59
October	9,947	9,947	10,035	56,774	118,272	155.9	44,371,596	3,697,687.9	0.22	5.71	1.01	5.66
November	18,747	18,747	18,860	106,289	197,441	291.6	44,583,041	3,591,233.7	0.42	5.67	1.01	5.64
December	107,819	107,819	108,323	608,090	1,100,734	1,668.1	44,742,367	3,718,380.2	2.41	5.64	1.00	5.61
2014												
January	146,869	146,869	147,773	831,338	1,589,205	2,280.2	41,224,649	3,433,689.0	3.56	5.66	1.01	5.63
February	58,685	58,685	58,978	330,141	596,959	905.0	40,541,333	3,092,709.3	1.45	5.63	1.00	5.60
March	30,145	30,145	30,332	170,271	306,781	466.9	40,793,004	3,445,241.0	0.74	5.65	1.01	5.61
April	25,301	25,301	25,456	148,625	257,384	407.3	45,019,559	3,685,240.8	0.56	5.87	1.01	5.84
May	10,762	10,762	10,844	61,414	108,653	168.3	45,858,690	3,816,789.5	0.23	5.71	1.01	5.66
June	3,756	3,756	3,781	20,918	38,074	57.3	46,210,055	3,701,562.2	0.08	5.57	1.01	5.53
July	2,387	2,387	2,410	13,264	24,248	36.4	46,276,914	3,831,491.4	0.05	5.56	1.01	5.50
August	2,522	2,522	2,559	14,352	25,652	39.4	45,937,586	3,823,194.7	0.05	5.69	1.01	5.61
September	5,282	5,282	5,351	30,078	54,436	82.7	45,980,533	3,693,323.0	0.11	5.69	1.01	5.62
October	9,980	9,980	10,056	57,422	102,468	157.5	45,980,288	3,829,727.9	0.22	5.75	1.01	5.71
November	30,926	30,926	31,123	179,890	320,415	493.7	46,173,833	3,716,413.1	0.67	5.82	1.01	5.78
December	259,794	259,794	262,375	1,558,450	2,676,101	4,277.4	46,124,070	3,832,790.4	5.63	6.00	1.01	5.94
2015												
January	208,506	208,506	210,709	1,258,693	2,120,870	3,454.5	41,117,220	3,416,117.9	5.07	6.04	1.01	5.97
February	96,316	96,316	97,023	560,991	972,394	1,538.1	39,927,515	3,039,981.1	2.41	5.82	1.01	5.78
March	55,886	55,886	56,177	319,500	563,723	875.8	40,276,504	3,399,016.1	1.39	5.72	1.01	5.69
April	23,762	23,762	23,895	134,102	238,531	367.5	44,576,835	3,574,701.1	0.53	5.64	1.01	5.61
May	7,189	7,189	7,234	39,473	72,124	108.2	45,049,640	3,718,412.0	0.16	5.49	1.01	5.46
June	2,973	2,973	2,996	15,741	29,604	43.2	45,005,712	3,631,265.4	0.07	5.29	1.01	5.25
July	1,459	1,459	1,467	7,987	14,325	21.9	32,695,282	2,734,251.2	0.04	5.47	1.01	5.44
August	1,134	1,134	1,149	6,226	11,548	17.1	24,742,721	2,064,304.0	0.05	5.49	1.01	5.42
September	2,596	2,596	2,619	13,489	24,981	37.1	24,756,148	1,990,664.8	0.10	5.20	1.01	5.15
October	2,495	2,495	2,511	12,769	23,363	35.0	15,026,962	1,256,922.1	0.17	5.12	1.01	5.09
November	431	431	432	2,140	4,263	5.9	5,326,075	404,979.7	0.08	4.97	1.00	4.95
December	622	622	624	2,850	5,713	7.8	4,008,669	324,003.4	0.16	4.58	1.00	4.57
Incident Use of Osetamivir Capsules (90 day washout)												
2010												

Table 5b: Summary of Incident Influenza Antiviral Drug Use among Patients with Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year/Month

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	New Users / 1K					
							Eligible Members	Member- Years	Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
January	22,479	22,479	22,584	123,806	240,514	339.3	38,958,054	3,230,287.3	0.58	5.51	1.00	5.48
February	18,342	18,342	18,433	101,840	195,159	279.5	38,422,162	2,927,845.5	0.48	5.55	1.00	5.52
March	16,811	16,811	16,868	93,924	178,327	257.5	38,331,530	3,239,195.9	0.44	5.59	1.00	5.57
April	5,342	5,342	5,378	29,125	55,437	79.9	40,892,574	3,346,766.0	0.13	5.45	1.01	5.42
May	2,762	2,762	2,783	15,095	28,642	41.5	41,502,059	3,455,265.4	0.07	5.47	1.01	5.42
June	1,993	1,993	2,006	10,761	20,330	29.5	41,429,540	3,337,996.9	0.05	5.40	1.01	5.36
July	1,367	1,367	1,380	7,403	14,042	20.3	41,087,065	3,428,797.6	0.03	5.42	1.01	5.36
August	1,859	1,859	1,871	10,385	19,124	28.5	41,013,898	3,417,638.2	0.05	5.59	1.01	5.55
September	3,779	3,779	3,813	21,255	39,103	58.5	41,032,268	3,293,196.0	0.09	5.62	1.01	5.57
October	6,023	6,023	6,091	33,594	62,338	92.5	40,986,514	3,410,812.1	0.15	5.58	1.01	5.52
November	11,160	11,160	11,222	63,277	116,654	173.7	41,162,406	3,311,092.4	0.27	5.67	1.01	5.64
December	35,734	35,734	35,889	207,105	365,548	567.8	41,411,296	3,445,252.8	0.86	5.80	1.00	5.77
2011												
January	77,436	77,436	77,889	452,549	838,034	1,241.8	38,170,944	3,175,170.7	2.03	5.84	1.01	5.81
February	136,116	136,116	136,855	797,558	1,756,813	2,187.2	37,385,038	2,851,353.5	3.64	5.86	1.01	5.83
March	54,218	54,218	54,516	319,532	729,923	876.2	37,253,863	3,147,134.7	1.46	5.89	1.01	5.86
April	9,193	9,193	9,244	53,300	111,285	146.1	40,449,654	3,307,527.3	0.23	5.80	1.01	5.77
May	2,806	2,806	2,823	15,862	31,411	43.5	41,209,056	3,431,071.6	0.07	5.65	1.01	5.62
June	1,635	1,635	1,644	9,055	17,555	24.9	41,274,729	3,327,447.5	0.04	5.54	1.01	5.51
July	1,013	1,013	1,020	5,570	10,942	15.2	40,927,621	3,413,444.7	0.02	5.50	1.01	5.46
August	1,352	1,352	1,365	7,546	14,446	20.8	40,911,012	3,408,948.6	0.03	5.58	1.01	5.53
September	3,040	3,040	3,060	16,735	31,584	46.0	41,069,832	3,295,250.5	0.07	5.50	1.01	5.47
October	5,198	5,198	5,229	28,735	53,753	78.9	41,113,351	3,422,043.5	0.13	5.53	1.01	5.50
November	6,596	6,596	6,651	36,471	67,848	100.2	41,341,593	3,325,126.1	0.16	5.53	1.01	5.48
December	8,891	8,891	8,978	49,244	91,277	135.3	41,691,886	3,466,818.0	0.21	5.54	1.01	5.48
2012												
January	10,065	10,065	10,131	57,043	104,289	156.6	38,469,951	3,204,060.6	0.26	5.67	1.01	5.63
February	23,046	23,046	23,159	134,925	238,704	370.1	38,297,011	2,994,460.2	0.60	5.85	1.00	5.83
March	37,573	37,573	37,741	221,924	389,422	608.1	44,471,741	3,209,446.1	0.84	5.91	1.00	5.88
April	15,347	15,347	15,529	89,887	158,513	246.4	43,771,129	3,582,614.3	0.35	5.86	1.01	5.79
May	7,991	7,991	8,055	46,104	82,301	126.4	44,363,904	3,702,807.7	0.18	5.77	1.01	5.72
June	3,575	3,575	3,592	19,998	37,147	54.8	44,408,132	3,581,445.6	0.08	5.59	1.00	5.57
July	1,893	1,893	1,902	10,403	19,080	28.5	43,894,642	3,663,041.2	0.04	5.50	1.00	5.47
August	2,332	2,332	2,345	12,898	23,822	35.4	43,855,744	3,657,601.6	0.05	5.53	1.01	5.50
September	3,436	3,436	3,461	19,034	35,074	52.2	44,070,591	3,531,152.3	0.08	5.54	1.01	5.50
October	7,815	7,815	7,885	45,606	80,598	125.2	44,107,248	3,670,145.2	0.18	5.84	1.01	5.78
November	28,705	28,705	28,888	169,173	294,634	464.2	44,309,316	3,567,045.1	0.65	5.89	1.01	5.86
December	154,529	154,529	155,676	919,938	1,659,464	2,524.7	44,547,804	3,704,576.0	3.47	5.95	1.01	5.91
2013												
January	242,818	242,818	245,050	1,435,796	3,049,744	3,939.9	41,564,813	3,458,189.2	5.84	5.91	1.01	5.86

Table 5b: Summary of Incident Influenza Antiviral Drug Use among Patients with Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year/Month

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	New Users / 1K					
							Eligible Members	Member- Years	Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
February	91,483	91,483	91,987	520,523	1,208,186	1,427.3	40,621,488	3,101,946.0	2.25	5.69	1.01	5.66
March	58,443	58,443	58,742	333,161	851,687	913.3	40,610,024	3,428,126.3	1.44	5.70	1.01	5.67
April	20,756	20,756	20,836	117,919	286,797	323.2	43,564,166	3,556,057.9	0.48	5.68	1.00	5.66
May	4,942	4,942	4,974	27,568	60,828	75.7	44,248,338	3,693,529.2	0.11	5.58	1.01	5.54
June	2,213	2,213	2,221	12,041	25,901	33.0	44,324,025	3,577,027.1	0.05	5.44	1.00	5.42
July	1,640	1,640	1,654	9,191	19,508	25.3	44,080,557	3,682,022.2	0.04	5.60	1.01	5.56
August	2,149	2,149	2,181	12,486	26,153	34.3	44,027,379	3,673,334.7	0.05	5.81	1.01	5.72
September	4,898	4,898	4,945	27,363	58,059	75.2	44,428,958	3,546,886.6	0.11	5.59	1.01	5.53
October	9,922	9,922	10,009	56,629	118,018	155.5	44,367,774	3,697,444.4	0.22	5.71	1.01	5.66
November	18,663	18,663	18,762	105,228	195,966	288.6	44,574,096	3,590,748.1	0.42	5.64	1.01	5.61
December	107,634	107,634	108,126	606,894	1,098,708	1,664.8	44,724,830	3,717,298.4	2.41	5.64	1.00	5.61
2014												
January	146,566	146,566	147,457	829,335	1,585,716	2,274.6	41,180,380	3,431,505.1	3.56	5.66	1.01	5.62
February	58,377	58,377	58,666	328,284	593,552	899.8	40,366,120	3,084,647.7	1.45	5.62	1.00	5.60
March	29,648	29,648	29,828	167,105	301,488	458.1	40,551,689	3,425,457.8	0.73	5.64	1.01	5.60
April	24,950	24,950	25,103	146,220	253,708	400.7	44,891,116	3,669,224.9	0.56	5.86	1.01	5.82
May	10,665	10,665	10,745	60,868	107,654	166.8	45,797,968	3,809,835.4	0.23	5.71	1.01	5.66
June	3,693	3,693	3,717	20,563	37,424	56.4	46,167,855	3,697,430.5	0.08	5.57	1.01	5.53
July	2,366	2,366	2,386	13,135	24,010	36.0	46,258,714	3,829,078.6	0.05	5.55	1.01	5.51
August	2,489	2,489	2,522	14,047	25,198	38.6	45,931,271	3,822,301.1	0.05	5.64	1.01	5.57
September	5,249	5,249	5,315	29,876	54,072	82.1	45,976,687	3,692,942.6	0.11	5.69	1.01	5.62
October	9,948	9,948	10,024	57,247	102,138	157.0	45,975,500	3,829,394.8	0.22	5.75	1.01	5.71
November	30,872	30,872	31,067	179,573	319,852	492.8	46,163,933	3,715,843.0	0.67	5.82	1.01	5.78
December	259,495	259,495	262,058	1,556,554	2,672,508	4,272.0	46,104,930	3,831,622.7	5.63	6.00	1.01	5.94
2015												
January	208,137	208,137	210,328	1,256,029	2,116,717	3,447.1	41,029,146	3,412,829.9	5.07	6.03	1.01	5.97
February	95,353	95,353	96,040	554,534	962,330	1,520.3	39,576,448	3,022,329.1	2.41	5.82	1.01	5.77
March	54,259	54,259	54,528	307,684	546,681	843.4	39,908,840	3,364,926.2	1.36	5.67	1.00	5.64
April	23,131	23,131	23,245	129,463	231,983	354.7	44,357,562	3,550,334.5	0.52	5.60	1.00	5.57
May	7,069	7,069	7,110	38,697	70,863	106.1	44,951,896	3,706,450.1	0.16	5.47	1.01	5.44
June	2,926	2,926	2,949	15,471	29,119	42.5	44,966,716	3,625,956.5	0.07	5.29	1.01	5.25
July	1,425	1,425	1,433	7,800	13,996	21.4	32,686,805	2,732,952.7	0.04	5.47	1.01	5.44
August	1,120	1,120	1,135	6,151	11,398	16.9	24,740,229	2,063,973.3	0.05	5.49	1.01	5.42
September	2,588	2,588	2,608	13,411	24,865	36.9	24,754,559	1,990,511.7	0.10	5.18	1.01	5.14
October	2,484	2,484	2,500	12,718	23,271	34.9	15,025,834	1,256,847.7	0.17	5.12	1.01	5.09
November	431	431	432	2,140	4,263	5.9	5,325,667	404,957.0	0.08	4.97	1.00	4.95
December	620	620	622	2,840	5,693	7.8	4,008,251	323,978.1	0.15	4.58	1.00	4.57
Incident Use of Oseltamivir Powder (45 day washout)												
2010												
January	3,543	3,543	3,559	20,837	145,705	57.1	39,224,996	3,264,534.7	0.09	5.88	1.00	5.85

Table 5b: Summary of Incident Influenza Antiviral Drug Use among Patients with Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year/Month

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	New Users / 1K					
							Eligible Members	Member- Years	Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
February	3,777	3,777	3,795	22,628	157,685	62.0	38,498,654	2,939,059.1	0.10	5.99	1.00	5.96
March	3,925	3,925	3,945	23,566	165,587	64.6	38,373,892	3,243,814.4	0.10	6.00	1.01	5.97
April	1,007	1,007	1,015	6,113	40,727	16.7	40,933,188	3,350,102.0	0.02	6.07	1.01	6.02
May	405	405	409	2,537	16,315	7.0	41,530,496	3,458,277.3	0.01	6.26	1.01	6.20
June	217	217	218	1,300	8,715	3.6	41,439,682	3,339,443.5	0.01	5.99	1.00	5.96
July	159	159	160	946	6,150	2.6	41,092,000	3,429,360.5	0.00	5.95	1.01	5.91
August	198	198	198	1,225	7,715	3.4	41,016,991	3,417,962.7	0.00	6.19	1.00	6.19
September	518	518	519	3,192	21,767	8.8	41,034,772	3,293,410.0	0.01	6.16	1.00	6.15
October	1,229	1,229	1,237	7,618	53,226	20.9	40,989,919	3,411,040.1	0.03	6.20	1.01	6.16
November	4,052	4,052	4,077	24,541	180,178	67.3	41,169,377	3,311,502.6	0.10	6.06	1.01	6.02
December	14,965	14,965	15,041	89,987	662,845	246.8	41,424,084	3,446,056.3	0.36	6.01	1.01	5.98
2011												
January	28,195	28,195	28,357	167,859	1,255,053	460.4	38,194,029	3,176,566.7	0.74	5.95	1.01	5.92
February	20,792	20,792	20,873	123,463	908,052	338.4	37,449,059	2,854,751.3	0.56	5.94	1.00	5.91
March	3,189	3,189	3,204	19,000	134,520	52.1	37,421,357	3,156,469.4	0.09	5.96	1.00	5.93
April	331	331	332	1,970	13,230	5.4	40,691,033	3,326,379.5	0.01	5.95	1.00	5.93
May	59	59	59	390	2,505	1.1	41,293,493	3,445,120.7	0.00	6.61	1.00	6.61
June	30	30	31	200	1,708	0.6	41,291,118	3,330,723.2	0.00	6.67	1.03	6.45
July	18	18	18	131	855	0.4	40,931,889	3,414,116.6	0.00	7.28	1.00	7.28
August	44	44	44	288	3,630	0.8	40,913,313	3,409,203.9	0.00	6.55	1.00	6.55
September	238	238	239	1,452	21,450	4.0	41,071,519	3,295,404.1	0.01	6.10	1.00	6.08
October	582	582	585	3,789	53,293	10.4	41,115,597	3,422,197.0	0.01	6.51	1.01	6.48
November	838	838	840	5,436	78,115	14.9	41,347,053	3,325,427.5	0.02	6.49	1.00	6.47
December	1,281	1,281	1,288	8,345	118,102	22.8	41,701,240	3,467,438.3	0.03	6.51	1.01	6.48
2012												
January	1,831	1,831	1,844	12,139	176,984	33.3	38,480,376	3,204,847.5	0.05	6.63	1.01	6.58
February	7,239	7,239	7,279	47,556	734,018	130.4	38,310,992	2,995,414.0	0.19	6.57	1.01	6.53
March	14,368	14,368	14,441	93,662	1,438,837	256.6	44,493,793	3,210,785.1	0.32	6.52	1.01	6.49
April	4,357	4,357	4,381	28,664	435,593	78.6	43,828,912	3,585,650.4	0.10	6.58	1.01	6.54
May	2,457	2,457	2,465	16,151	249,994	44.2	44,440,006	3,709,179.2	0.06	6.57	1.00	6.55
June	932	932	935	6,247	92,800	17.1	44,438,656	3,585,627.1	0.02	6.70	1.00	6.68
July	333	333	335	2,161	32,445	5.9	43,908,998	3,664,784.7	0.01	6.49	1.01	6.45
August	311	311	312	2,048	29,260	5.6	43,862,376	3,658,424.5	0.01	6.59	1.00	6.56
September	544	544	545	3,658	53,797	10.0	44,074,092	3,531,525.5	0.01	6.72	1.00	6.71
October	2,101	2,101	2,109	14,093	211,138	38.6	44,111,180	3,670,437.1	0.05	6.71	1.00	6.68
November	10,484	10,484	10,548	68,738	1,064,430	188.7	44,316,639	3,567,474.5	0.24	6.56	1.01	6.52
December	47,073	47,073	47,314	306,018	4,780,021	839.3	44,565,220	3,705,526.2	1.06	6.50	1.01	6.47
2013												
January	37,671	37,671	37,932	244,161	3,673,561	669.9	41,651,233	3,461,555.6	0.90	6.48	1.01	6.44
February	18,286	18,286	18,390	116,880	1,820,655	320.4	40,892,154	3,115,354.9	0.45	6.39	1.01	6.36

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	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	New Users / 1K					
							Eligible Members	Member- Years	Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
March	7,568	7,568	7,611	48,941	739,392	134.2	40,976,553	3,458,068.7	0.18	6.47	1.01	6.43
April	1,884	1,884	1,891	12,712	173,547	34.8	43,767,230	3,580,803.3	0.04	6.75	1.00	6.72
May	264	264	265	1,769	25,572	4.8	44,350,192	3,705,511.0	0.01	6.70	1.00	6.68
June	72	72	73	464	6,320	1.3	44,356,723	3,582,139.1	0.00	6.44	1.01	6.36
July	46	46	46	321	4,009	0.9	44,088,149	3,683,363.6	0.00	6.98	1.00	6.98
August	83	83	83	543	7,280	1.5	44,030,863	3,673,744.9	0.00	6.54	1.00	6.54
September	299	299	300	2,013	26,694	5.5	44,431,432	3,547,115.7	0.01	6.73	1.00	6.71
October	1,113	1,113	1,121	7,515	105,861	20.6	44,371,596	3,697,687.9	0.03	6.75	1.01	6.70
November	4,384	4,384	4,409	29,739	431,464	81.6	44,583,041	3,591,233.7	0.10	6.78	1.01	6.75
December	27,874	27,874	28,015	184,276	2,694,218	505.3	44,742,367	3,718,380.2	0.62	6.61	1.01	6.58
2014												
January	30,313	30,313	30,481	200,298	2,890,072	549.1	41,224,649	3,433,689.0	0.74	6.61	1.01	6.57
February	11,894	11,894	11,963	78,372	1,162,203	214.8	40,541,333	3,092,709.3	0.29	6.59	1.01	6.55
March	5,850	5,850	5,887	39,650	593,278	108.7	40,793,004	3,445,241.0	0.14	6.78	1.01	6.74
April	4,657	4,657	4,678	31,571	477,098	86.5	45,019,559	3,685,240.8	0.10	6.78	1.00	6.75
May	2,044	2,044	2,053	13,551	208,566	37.1	45,858,690	3,816,789.5	0.04	6.63	1.00	6.60
June	562	562	566	3,745	55,245	10.3	46,210,055	3,701,562.2	0.01	6.66	1.01	6.62
July	268	268	269	1,816	26,098	5.0	46,276,914	3,831,491.4	0.01	6.78	1.00	6.75
August	352	352	356	2,425	33,816	6.6	45,937,586	3,823,194.7	0.01	6.89	1.01	6.81
September	827	827	832	5,415	78,893	14.8	45,980,533	3,693,323.0	0.02	6.55	1.01	6.51
October	1,982	1,982	1,993	13,488	197,080	37.0	45,980,288	3,829,727.9	0.04	6.81	1.01	6.77
November	9,939	9,939	9,995	66,147	1,040,967	181.6	46,173,833	3,716,413.1	0.22	6.66	1.01	6.62
December	74,944	74,944	75,303	479,258	7,532,131	1,313.8	46,124,070	3,832,790.4	1.62	6.39	1.00	6.36
2015												
January	41,977	41,977	42,208	278,036	4,137,222	762.4	41,117,220	3,416,117.9	1.02	6.62	1.01	6.59
February	18,549	18,549	18,631	121,759	1,849,290	333.6	39,927,515	3,039,981.1	0.46	6.56	1.00	6.54
March	9,136	9,136	9,174	60,511	936,607	165.8	40,276,504	3,399,016.1	0.23	6.62	1.00	6.60
April	3,129	3,129	3,149	20,993	318,555	57.5	44,576,835	3,574,701.1	0.07	6.71	1.01	6.67
May	1,017	1,017	1,022	6,711	102,594	18.4	45,049,640	3,718,412.0	0.02	6.60	1.00	6.57
June	287	287	290	1,831	26,412	5.0	45,005,712	3,631,265.4	0.01	6.38	1.01	6.31
July	74	74	74	450	6,726	1.2	32,695,282	2,734,251.2	0.00	6.08	1.00	6.08
August	81	81	82	500	8,445	1.4	24,742,721	2,064,304.0	0.00	6.17	1.01	6.10
September	282	282	283	1,660	25,884	4.5	24,756,148	1,990,664.8	0.01	5.89	1.00	5.87
October	245	245	246	1,443	22,225	4.0	15,026,962	1,256,922.1	0.02	5.89	1.00	5.87
November	26	26	26	140	2,415	0.4	5,326,075	404,979.7	0.00	5.38	1.00	5.38
December	48	48	48	221	3,645	0.6	4,008,669	324,003.4	0.01	4.60	1.00	4.60
Incident Use of Oseltamivir Powder (90 day washout)												
2010												
January	3,395	3,395	3,410	19,933	139,785	54.7	38,958,054	3,230,287.3	0.09	5.87	1.00	5.85
February	3,711	3,711	3,728	22,221	155,010	60.9	38,422,162	2,927,845.5	0.10	5.99	1.00	5.96

Table 5b: Summary of Incident Influenza Antiviral Drug Use among Patients with Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year/Month

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	New Users / 1K					
							Eligible Members	Member- Years	Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
March	3,883	3,883	3,900	23,295	163,837	63.8	38,331,530	3,239,195.9	0.10	6.00	1.00	5.97
April	989	989	997	6,019	40,077	16.5	40,892,574	3,346,766.0	0.02	6.09	1.01	6.04
May	389	389	392	2,454	15,760	6.7	41,502,059	3,455,265.4	0.01	6.31	1.01	6.26
June	210	210	211	1,260	8,455	3.4	41,429,540	3,337,996.9	0.01	6.00	1.00	5.97
July	153	153	154	916	5,900	2.5	41,087,065	3,428,797.6	0.00	5.99	1.01	5.95
August	195	195	195	1,200	7,615	3.3	41,013,898	3,417,638.2	0.00	6.15	1.00	6.15
September	515	515	516	3,177	21,667	8.7	41,032,268	3,293,196.0	0.01	6.17	1.00	6.16
October	1,223	1,223	1,231	7,588	53,026	20.8	40,986,514	3,410,812.1	0.03	6.20	1.01	6.16
November	4,040	4,040	4,065	24,474	179,728	67.1	41,162,406	3,311,092.4	0.10	6.06	1.01	6.02
December	14,942	14,942	15,018	89,866	661,955	246.5	41,411,296	3,445,252.8	0.36	6.01	1.01	5.98
2011												
January	28,109	28,109	28,270	167,332	1,251,718	459.0	38,170,944	3,175,170.7	0.74	5.95	1.01	5.92
February	20,576	20,576	20,655	122,198	899,103	334.9	37,385,038	2,851,353.5	0.55	5.94	1.00	5.92
March	3,140	3,140	3,153	18,725	132,587	51.3	37,253,863	3,147,134.7	0.08	5.96	1.00	5.94
April	318	318	319	1,900	12,708	5.2	40,449,654	3,307,527.3	0.01	5.97	1.00	5.96
May	55	55	55	370	2,387	1.0	41,209,056	3,431,071.6	0.00	6.73	1.00	6.73
June	29	29	30	195	1,683	0.6	41,274,729	3,327,447.5	0.00	6.72	1.03	6.50
July	18	18	18	131	855	0.4	40,927,621	3,413,444.7	0.00	7.28	1.00	7.28
August	44	44	44	288	3,630	0.8	40,911,012	3,408,948.6	0.00	6.55	1.00	6.55
September	237	237	238	1,446	21,390	4.0	41,069,832	3,295,250.5	0.01	6.10	1.00	6.08
October	581	581	584	3,784	53,173	10.4	41,113,351	3,422,043.5	0.01	6.51	1.01	6.48
November	835	835	837	5,416	77,755	14.8	41,341,593	3,325,126.1	0.02	6.49	1.00	6.47
December	1,275	1,275	1,282	8,315	117,682	22.8	41,691,886	3,466,818.0	0.03	6.52	1.01	6.49
2012												
January	1,828	1,828	1,841	12,113	176,744	33.2	38,469,951	3,204,060.6	0.05	6.63	1.01	6.58
February	7,225	7,225	7,265	47,480	732,818	130.2	38,297,011	2,994,460.2	0.19	6.57	1.01	6.54
March	14,348	14,348	14,421	93,540	1,436,917	256.3	44,471,741	3,209,446.1	0.32	6.52	1.01	6.49
April	4,345	4,345	4,369	28,588	434,453	78.4	43,771,129	3,582,614.3	0.10	6.58	1.01	6.54
May	2,438	2,438	2,445	16,003	248,434	43.8	44,363,904	3,702,807.7	0.05	6.56	1.00	6.55
June	926	926	929	6,208	92,205	17.0	44,408,132	3,581,445.6	0.02	6.70	1.00	6.68
July	326	326	328	2,122	31,855	5.8	43,894,642	3,663,041.2	0.01	6.51	1.01	6.47
August	310	310	311	2,043	29,140	5.6	43,855,744	3,657,601.6	0.01	6.59	1.00	6.57
September	544	544	545	3,658	53,797	10.0	44,070,591	3,531,152.3	0.01	6.72	1.00	6.71
October	2,097	2,097	2,105	14,071	210,778	38.6	44,107,248	3,670,145.2	0.05	6.71	1.00	6.68
November	10,473	10,473	10,537	68,666	1,063,230	188.5	44,309,316	3,567,045.1	0.24	6.56	1.01	6.52
December	47,006	47,006	47,246	305,629	4,774,281	838.2	44,547,804	3,704,576.0	1.06	6.50	1.01	6.47
2013												
January	37,526	37,526	37,786	243,266	3,659,665	667.5	41,564,813	3,458,189.2	0.90	6.48	1.01	6.44
February	17,836	17,836	17,937	114,085	1,776,830	312.8	40,621,488	3,101,946.0	0.44	6.40	1.01	6.36
March	7,242	7,242	7,281	46,905	709,719	128.6	40,610,024	3,428,126.3	0.18	6.48	1.01	6.44

Table 5b: Summary of Incident Influenza Antiviral Drug Use among Patients with Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year/Month

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	New Users / 1K					
							Eligible Members	Member- Years	Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
April	1,817	1,817	1,823	12,243	167,887	33.5	43,564,166	3,556,057.9	0.04	6.74	1.00	6.72
May	259	259	260	1,742	25,267	4.8	44,248,338	3,693,529.2	0.01	6.73	1.00	6.70
June	69	69	70	449	6,080	1.2	44,324,025	3,577,027.1	0.00	6.51	1.01	6.41
July	46	46	46	321	4,009	0.9	44,080,557	3,682,022.2	0.00	6.98	1.00	6.98
August	82	82	82	537	7,220	1.5	44,027,379	3,673,334.7	0.00	6.55	1.00	6.55
September	298	298	299	2,005	26,574	5.5	44,428,958	3,546,886.6	0.01	6.73	1.00	6.71
October	1,113	1,113	1,121	7,515	105,861	20.6	44,367,774	3,697,444.4	0.03	6.75	1.01	6.70
November	4,377	4,377	4,402	29,708	430,989	81.5	44,574,096	3,590,748.1	0.10	6.79	1.01	6.75
December	27,820	27,820	27,959	183,967	2,689,215	504.4	44,724,830	3,717,298.4	0.62	6.61	1.00	6.58
2014												
January	30,233	30,233	30,398	199,773	2,882,332	547.7	41,180,380	3,431,505.1	0.73	6.61	1.01	6.57
February	11,766	11,766	11,834	77,554	1,150,349	212.6	40,366,120	3,084,647.7	0.29	6.59	1.01	6.55
March	5,719	5,719	5,752	38,774	581,178	106.2	40,551,689	3,425,457.8	0.14	6.78	1.01	6.74
April	4,525	4,525	4,544	30,697	465,323	84.1	44,891,116	3,669,224.9	0.10	6.78	1.00	6.76
May	2,016	2,016	2,025	13,378	206,226	36.6	45,797,968	3,809,835.4	0.04	6.64	1.00	6.61
June	560	560	563	3,720	54,885	10.2	46,167,855	3,697,430.5	0.01	6.64	1.01	6.61
July	266	266	267	1,806	25,978	4.9	46,258,714	3,829,078.6	0.01	6.79	1.00	6.76
August	350	350	354	2,415	33,636	6.6	45,931,271	3,822,301.1	0.01	6.90	1.01	6.82
September	826	826	831	5,410	78,833	14.8	45,976,687	3,692,942.6	0.02	6.55	1.01	6.51
October	1,977	1,977	1,988	13,454	196,720	36.9	45,975,500	3,829,394.8	0.04	6.81	1.01	6.77
November	9,923	9,923	9,979	66,036	1,039,547	181.3	46,163,933	3,715,843.0	0.21	6.65	1.01	6.62
December	74,839	74,839	75,197	478,675	7,523,274	1,312.2	46,104,930	3,831,622.7	1.62	6.40	1.00	6.37
2015												
January	41,875	41,875	42,105	277,395	4,127,692	760.7	41,029,146	3,412,829.9	1.02	6.62	1.01	6.59
February	18,244	18,244	18,323	119,821	1,819,058	328.2	39,576,448	3,022,329.1	0.46	6.57	1.00	6.54
March	8,706	8,706	8,741	57,632	894,518	157.9	39,908,840	3,364,926.2	0.22	6.62	1.00	6.59
April	3,030	3,030	3,050	20,282	309,192	55.5	44,357,562	3,550,334.5	0.07	6.69	1.01	6.65
May	990	990	995	6,547	100,197	17.9	44,951,896	3,706,450.1	0.02	6.61	1.01	6.58
June	286	286	289	1,829	26,382	5.0	44,966,716	3,625,956.5	0.01	6.40	1.01	6.33
July	72	72	72	439	6,606	1.2	32,686,805	2,732,952.7	0.00	6.10	1.00	6.10
August	81	81	82	500	8,445	1.4	24,740,229	2,063,973.3	0.00	6.17	1.01	6.10
September	282	282	283	1,660	25,884	4.5	24,754,559	1,990,511.7	0.01	5.89	1.00	5.87
October	245	245	246	1,443	22,225	4.0	15,025,834	1,256,847.7	0.02	5.89	1.00	5.87
November	26	26	26	140	2,415	0.4	5,325,667	404,957.0	0.00	5.38	1.00	5.38
December	48	48	48	221	3,645	0.6	4,008,251	323,978.1	0.01	4.60	1.00	4.60
Incident Use of Zanamivir (45 day washout)												
2010												
January	613	613	616	4,218	12,414	11.6	39,224,992	3,264,534.2	0.02	6.88	1.00	6.85
February	640	640	643	4,425	12,870	12.1	38,498,652	2,939,058.7	0.02	6.91	1.00	6.88
March	619	619	622	4,384	12,515	12.0	38,373,892	3,243,814.2	0.02	7.08	1.00	7.05

Table 5b: Summary of Incident Influenza Antiviral Drug Use among Patients with Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year/Month

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	New Users / 1K					
							Eligible Members	Member- Years	Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
2010												
April	164	164	164	1,190	3,181	3.3	40,933,181	3,350,101.7	0.00	7.26	1.00	7.26
May	81	81	81	559	1,586	1.5	41,530,496	3,458,277.2	0.00	6.90	1.00	6.90
June	50	50	50	399	1,014	1.1	41,439,679	3,339,443.4	0.00	7.98	1.00	7.98
July	30	30	30	269	597	0.7	41,092,000	3,429,360.5	0.00	8.97	1.00	8.97
August	46	46	47	360	929	1.0	41,016,991	3,417,962.6	0.00	7.83	1.02	7.66
September	69	69	69	562	1,461	1.5	41,034,772	3,293,410.0	0.00	8.14	1.00	8.14
October	101	101	102	739	2,050	2.0	40,989,918	3,411,040.1	0.00	7.32	1.01	7.25
November	142	142	143	967	2,825	2.7	41,169,377	3,311,502.6	0.00	6.81	1.01	6.76
December	449	449	451	3,180	9,003	8.7	41,424,082	3,446,056.2	0.01	7.08	1.00	7.05
2011												
January	784	784	784	5,477	15,817	15.0	38,194,025	3,176,566.6	0.02	6.99	1.00	6.99
February	938	938	941	6,352	18,681	17.4	37,449,054	2,854,750.9	0.03	6.77	1.00	6.75
March	300	300	303	2,021	6,061	5.6	37,421,336	3,156,467.8	0.01	6.74	1.01	6.67
April	47	47	48	361	930	1.0	40,691,022	3,326,378.3	0.00	7.68	1.02	7.52
May	23	23	23	200	460	0.5	41,293,492	3,445,120.3	0.00	8.70	1.00	8.70
June	23	23	24	207	491	0.6	41,291,118	3,330,723.2	0.00	9.00	1.04	8.63
July	15	15	15	182	300	0.5	40,931,889	3,414,116.6	0.00	12.13	1.00	12.13
August	17	17	19	130	380	0.4	40,913,313	3,409,203.9	0.00	7.65	1.12	6.84
September	33	33	35	248	650	0.7	41,071,519	3,295,404.1	0.00	7.52	1.06	7.09
October	40	40	40	309	801	0.8	41,115,597	3,422,197.0	0.00	7.73	1.00	7.73
November	58	58	58	475	1,165	1.3	41,347,053	3,325,427.5	0.00	8.19	1.00	8.19
December	74	74	78	662	1,625	1.8	41,701,240	3,467,438.2	0.00	8.95	1.05	8.49
2012												
January	71	71	72	521	1,335	1.4	38,480,376	3,204,847.5	0.00	7.34	1.01	7.24
February	123	123	126	944	2,650	2.6	38,310,992	2,995,413.9	0.00	7.67	1.02	7.49
March	160	160	164	1,423	3,285	3.9	44,493,793	3,210,785.1	0.00	8.89	1.03	8.68
April	74	74	74	528	1,590	1.4	43,828,900	3,585,649.9	0.00	7.14	1.00	7.14
May	36	36	36	360	780	1.0	44,440,001	3,709,178.6	0.00	10.00	1.00	10.00
June	25	25	25	196	464	0.5	44,438,654	3,585,626.9	0.00	7.84	1.00	7.84
July	12	12	12	140	225	0.4	43,908,998	3,664,784.6	0.00	11.67	1.00	11.67
August	26	26	26	228	491	0.6	43,862,376	3,658,424.5	0.00	8.77	1.00	8.77
September	31	31	32	308	660	0.8	44,074,092	3,531,525.4	0.00	9.94	1.03	9.63
October	36	36	37	287	773	0.8	44,111,180	3,670,437.1	0.00	7.97	1.03	7.76
November	118	118	120	884	2,338	2.4	44,316,637	3,567,474.5	0.00	7.49	1.02	7.37
December	379	379	386	2,995	7,548	8.2	44,565,219	3,705,526.0	0.01	7.90	1.02	7.76
2013												
January	406	406	407	3,041	8,024	8.3	41,651,213	3,461,554.8	0.01	7.49	1.00	7.47
February	123	123	123	1,005	2,396	2.8	40,892,134	3,115,352.9	0.00	8.17	1.00	8.17
March	72	72	73	618	1,490	1.7	40,976,526	3,458,066.0	0.00	8.58	1.01	8.47
April	46	46	46	421	894	1.2	43,767,223	3,580,801.9	0.00	9.15	1.00	9.15

Table 5b: Summary of Incident Influenza Antiviral Drug Use among Patients with Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year/Month

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	New Users / 1K					
							Eligible Members	Member- Years	Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
2014												
May	21	21	21	248	420	0.7	44,350,188	3,705,510.4	0.00	11.81	1.00	11.81
June	14	14	14	213	300	0.6	44,356,723	3,582,139.0	0.00	15.21	1.00	15.21
July	7	7	7	60	140	0.2	44,088,149	3,683,363.6	0.00	8.57	1.00	8.57
August	9	9	9	110	180	0.3	44,030,863	3,673,744.9	0.00	12.22	1.00	12.22
September	26	26	26	172	504	0.5	44,431,432	3,547,115.7	0.00	6.62	1.00	6.62
October	40	40	40	323	784	0.9	44,371,596	3,697,687.9	0.00	8.08	1.00	8.08
November	39	39	39	361	763	1.0	44,583,041	3,591,233.6	0.00	9.26	1.00	9.26
December	166	166	166	1,253	3,116	3.4	44,742,363	3,718,380.1	0.00	7.55	1.00	7.55
2015												
January	116	116	116	865	2,132	2.4	41,224,630	3,433,688.4	0.00	7.46	1.00	7.46
February	50	50	50	352	980	1.0	40,541,311	3,092,706.9	0.00	7.04	1.00	7.04
March	27	27	29	255	570	0.7	40,792,990	3,445,239.3	0.00	9.44	1.07	8.79
April	31	31	31	199	576	0.5	45,019,556	3,685,240.1	0.00	6.42	1.00	6.42
May	16	16	16	186	304	0.5	45,858,678	3,816,789.0	0.00	11.63	1.00	11.63
June	8	8	8	85	200	0.2	46,210,054	3,701,561.9	0.00	10.63	1.00	10.63
July	6	6	6	31	101	0.1	46,276,914	3,831,491.4	0.00	5.17	1.00	5.17
August	9	9	9	120	180	0.3	45,937,586	3,823,194.7	0.00	13.33	1.00	13.33
September	11	11	11	77	186	0.2	45,980,533	3,693,323.0	0.00	7.00	1.00	7.00
October	15	15	15	75	215	0.2	45,980,288	3,829,727.9	0.00	5.00	1.00	5.00
November	32	32	32	228	693	0.6	46,173,832	3,716,413.0	0.00	7.13	1.00	7.13
December	201	201	202	1,321	3,347	3.6	46,124,065	3,832,790.2	0.00	6.57	1.00	6.54
Incident Use of Zanamivir (90 day washout)												
2010												
January	598	598	601	4,108	12,114	11.2	38,958,030	3,230,285.2	0.02	6.87	1.01	6.84
February	629	629	632	4,370	12,650	12.0	38,422,158	2,927,844.3	0.02	6.95	1.00	6.91
March	605	605	608	4,302	12,235	11.8	38,331,525	3,239,195.4	0.02	7.11	1.00	7.08
April	157	157	157	1,124	3,037	3.1	40,892,569	3,346,765.8	0.00	7.16	1.00	7.16

Table 5b: Summary of Incident Influenza Antiviral Drug Use among Patients with Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year/Month

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	Eligible Members	Member- Years	New Users / 1K			
									Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
2011												
May	78	78	78	544	1,526	1.5	41,502,058	3,455,265.2	0.00	6.97	1.00	6.97
June	48	48	48	368	984	1.0	41,429,540	3,337,996.7	0.00	7.67	1.00	7.67
July	29	29	29	264	577	0.7	41,087,064	3,428,797.6	0.00	9.10	1.00	9.10
August	45	45	45	300	889	0.8	41,013,897	3,417,638.2	0.00	6.67	1.00	6.67
September	68	68	68	561	1,451	1.5	41,032,268	3,293,196.0	0.00	8.25	1.00	8.25
October	99	99	100	729	2,010	2.0	40,986,514	3,410,812.1	0.00	7.36	1.01	7.29
November	141	141	142	962	2,805	2.7	41,162,405	3,311,092.4	0.00	6.82	1.01	6.77
December	447	447	449	3,145	8,943	8.6	41,411,296	3,445,252.8	0.01	7.04	1.00	7.00
2011												
January	769	769	769	5,354	15,522	14.7	38,170,941	3,175,170.7	0.02	6.96	1.00	6.96
February	931	931	933	6,287	18,521	17.2	37,385,038	2,851,353.4	0.02	6.75	1.00	6.74
March	298	298	301	2,011	6,021	5.5	37,253,862	3,147,134.4	0.01	6.75	1.01	6.68
April	46	46	47	356	910	1.0	40,449,636	3,307,526.6	0.00	7.74	1.02	7.57
May	23	23	23	200	460	0.5	41,209,043	3,431,069.9	0.00	8.70	1.00	8.70
June	21	21	22	172	451	0.5	41,274,727	3,327,446.9	0.00	8.19	1.05	7.82
July	14	14	14	177	280	0.5	40,927,621	3,413,444.6	0.00	12.64	1.00	12.64
August	16	16	18	120	360	0.3	40,911,012	3,408,948.6	0.00	7.50	1.13	6.67
September	33	33	35	248	650	0.7	41,069,832	3,295,250.5	0.00	7.52	1.06	7.09
October	40	40	40	309	801	0.8	41,113,351	3,422,043.5	0.00	7.73	1.00	7.73
November	58	58	58	475	1,165	1.3	41,341,592	3,325,126.1	0.00	8.19	1.00	8.19
December	72	72	76	627	1,585	1.7	41,691,886	3,466,818.0	0.00	8.71	1.06	8.25
2012												
January	68	68	69	506	1,275	1.4	38,469,951	3,204,060.6	0.00	7.44	1.01	7.33
February	120	120	120	899	2,530	2.5	38,297,011	2,994,460.2	0.00	7.49	1.00	7.49
March	158	158	162	1,413	3,245	3.9	44,471,738	3,209,446.1	0.00	8.94	1.03	8.72
April	73	73	73	513	1,530	1.4	43,771,129	3,582,614.2	0.00	7.03	1.00	7.03
May	34	34	34	325	740	0.9	44,363,899	3,702,807.5	0.00	9.56	1.00	9.56
June	24	24	24	166	444	0.5	44,408,129	3,581,444.9	0.00	6.92	1.00	6.92
July	11	11	11	130	205	0.4	43,894,639	3,663,040.9	0.00	11.82	1.00	11.82
August	25	25	25	223	471	0.6	43,855,744	3,657,601.4	0.00	8.92	1.00	8.92
September	31	31	32	308	660	0.8	44,070,591	3,531,152.3	0.00	9.94	1.03	9.63
October	36	36	37	287	773	0.8	44,107,248	3,670,145.2	0.00	7.97	1.03	7.76
November	117	117	119	854	2,318	2.3	44,309,316	3,567,045.0	0.00	7.30	1.02	7.18
December	378	378	384	2,955	7,508	8.1	44,547,804	3,704,576.0	0.01	7.82	1.02	7.70
2013												
January	405	405	406	3,036	8,004	8.3	41,564,813	3,458,189.2	0.01	7.50	1.00	7.48
February	118	118	118	980	2,296	2.7	40,621,483	3,101,945.8	0.00	8.31	1.00	8.31
March	66	66	67	572	1,350	1.6	40,609,996	3,428,124.7	0.00	8.67	1.02	8.54
April	38	38	38	371	712	1.0	43,564,124	3,556,055.5	0.00	9.76	1.00	9.76
May	18	18	18	183	360	0.5	44,248,315	3,693,527.1	0.00	10.17	1.00	10.17

Table 5b: Summary of Incident Influenza Antiviral Drug Use among Patients with Drug Coverage in the Sentinel Distributed Database between January 1, 2010 and December 31, 2015, by Drug, Washout Period, and Year/Month

	New Users	New Episodes	Dispensings	Days Supplied	Amount Supplied	Years at Risk	New Users / 1K					
							Eligible Members	Member- Years	Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
June	14	14	14	213	300	0.6	44,324,016	3,577,026.1	0.00	15.21	1.00	15.21
July	6	6	6	55	120	0.2	44,080,554	3,682,021.8	0.00	9.17	1.00	9.17
August	9	9	9	110	180	0.3	44,027,379	3,673,334.7	0.00	12.22	1.00	12.22
September	24	24	24	137	464	0.4	44,428,958	3,546,886.6	0.00	5.71	1.00	5.71
October	39	39	39	318	764	0.9	44,367,774	3,697,444.4	0.00	8.15	1.00	8.15
November	37	37	37	326	723	0.9	44,574,096	3,590,748.1	0.00	8.81	1.00	8.81
December	160	160	160	1,230	3,012	3.4	44,724,828	3,717,298.3	0.00	7.69	1.00	7.69
2014												
January	115	115	115	855	2,112	2.3	41,180,378	3,431,504.9	0.00	7.43	1.00	7.43
February	47	47	47	327	920	0.9	40,366,116	3,084,647.5	0.00	6.96	1.00	6.96
March	25	25	27	220	530	0.6	40,551,647	3,425,456.0	0.00	8.80	1.08	8.15
April	30	30	30	194	556	0.5	44,891,095	3,669,222.7	0.00	6.47	1.00	6.47
May	16	16	16	186	304	0.5	45,797,955	3,809,834.3	0.00	11.63	1.00	11.63
June	6	6	6	60	140	0.2	46,167,852	3,697,430.1	0.00	10.00	1.00	10.00
July	5	5	5	26	81	0.1	46,258,710	3,829,078.2	0.00	5.20	1.00	5.20
August	8	8	8	90	160	0.2	45,931,271	3,822,301.0	0.00	11.25	1.00	11.25
September	11	11	11	77	186	0.2	45,976,687	3,692,942.6	0.00	7.00	1.00	7.00
October	14	14	14	70	195	0.2	45,975,499	3,829,394.7	0.00	5.00	1.00	5.00
November	30	30	30	213	633	0.6	46,163,933	3,715,843.0	0.00	7.10	1.00	7.10
December	198	198	199	1,301	3,287	3.6	46,104,930	3,831,622.7	0.00	6.57	1.01	6.54
2015												
January	139	139	139	1,015	2,578	2.8	41,029,145	3,412,829.8	0.00	7.30	1.00	7.30
February	41	41	41	326	788	0.9	39,576,443	3,022,328.9	0.00	7.95	1.00	7.95
March	27	27	27	228	437	0.6	39,908,782	3,364,924.3	0.00	8.44	1.00	8.44
April	26	26	26	282	500	0.8	44,357,514	3,550,331.6	0.00	10.85	1.00	10.85
May	12	12	12	135	240	0.4	44,951,887	3,706,448.5	0.00	11.25	1.00	11.25
June	9	9	10	145	200	0.4	44,966,708	3,625,955.9	0.00	16.11	1.11	14.50
July	7	7	8	40	144	0.1	32,686,804	2,732,952.6	0.00	5.71	1.14	5.00
August	3	3	3	40	60	0.1	24,740,229	2,063,973.2	0.00	13.33	1.00	13.33
September	7	7	8	41	180	0.1	24,754,559	1,990,511.7	0.00	5.86	1.14	5.13
October	6	6	6	65	107	0.2	15,025,834	1,256,847.7	0.00	10.83	1.00	10.83
November	2	2	2	6	24	0.0	5,325,667	404,957.0	0.00	3.00	1.00	3.00
December	0	0	0	0	0	0.0	4,008,251	323,978.1	0.00	---	---	---

Appendix A: Latest Date of Available Data for Each Data Partner up to Request End Date (December 31, 2015)

DP ID	End Date
DP0001	6/30/2015
DP0002	12/31/2014
DP0003	6/30/2015
DP0004	12/31/2015
DP0005	4/30/2015
DP0006	7/31/2015
DP0007	6/30/2015
DP0008	11/30/2015
DP0009	9/30/2015
DP0010	9/30/2015
DP0011	7/31/2014
DP0012	3/31/2015
DP0013	12/31/2014
DP0014	11/30/2015
DP0015	12/31/2015
DP0016	6/30/2012

Appendix B: Generic and Brand Names used to Define Exposures in this Request

<u>Generic Name</u>	<u>Brand Name</u>
OSELTAMIVIR PHOSPHATE	Tamiflu
ZANAMIVIR	Relenza Diskhaler

Appendix C: Modular Program Specifications for cder_mpl1r_wp030_nsdp_v01

FDA requested execution of the Cohort Identification and Descriptive Analysis (CIDA) tool, version 2.2.3, to investigate incident use of two influenza antiviral drugs during the previous five influenza seasons in the Sentinel Distributed Database (SDD). The query period was from January 1, 2010 to December 31, 2015, and the enrollment gap was set at 45 days. Age groups were split as follows: 0-1, 2-4, 5-9, 10-14, 19-21, 22-44, 45-64, 65-74, and 75+ years. In total, six different scenarios were examined in this request.

Enrollment Requirement: 90 days
Enrollment Gap: 45 days
Age Groups: 0-1, 2-4, 5-9, 10-14, 15-18, 19-21, 22-44, 45-64, 65-74, 75+
Coverage Requirement: Medical and drug coverage (run 1); drug coverage only (run 2)
Query Period: January 1, 2010 - December 31, 2015 (Results by year-month)

Scenario	Incident Exposure	Incident w/ Respect to	Washout (days)	Episode Gap	Cohort Definition
1	Oseltamivir (capsule)	Oseltamivir (capsule/powder) and zanamivir	90 days	10 days	Include all valid index dates during the query period
2	Oseltamivir (capsule)	Oseltamivir (capsule/powder) and zanamivir	45 days	10 days	Include all valid index dates during the query period
3	Oseltamivir (powder)	Oseltamivir (capsule/powder) and zanamivir	90 days	10 days	Include all valid index dates during the query period
4	Oseltamivir (powder)	Oseltamivir (capsule/powder) and zanamivir	45 days	10 days	Include all valid index dates during the query period
5	Zanamivir	Oseltamivir (capsule/powder) and zanamivir	90 days	10 days	Include all valid index dates during the query period
6	Zanamivir	Oseltamivir (capsule/powder) and zanamivir	45 days	10 days	Include all valid index dates during the query period

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