Public Health - Seattle & King County
Summary of Influenza Syndromic and Laboratory Surveillance

Influenza Update: February 8, 2020

During the week ending February 8, 2020:

• There were four new influenza-related deaths and two new outbreaks reported this week. Twenty-two deaths and 18 outbreaks at long-term care facilities have been reported this season (since 9/29/2019).

• Based on data from King County laboratories, influenza was the most commonly identified respiratory pathogen, followed by RSV and rhinovirus. The percent of positive tests for respiratory viral pathogens was comparable to rates observed this time of year and below peak levels observed during the previous five seasons.

• For the week ending February 8th, 2020, the percent of emergency department (ED) visits for influenza-like illness (ILI) was at or above baseline levels among all ages combined, but below peak levels observed during four of the previous five influenza seasons. Among every age group except adults ages 45 years and older, the percent of ED ILI visits overall this season is higher than observed during each of the previous 5 influenza seasons. The percent of ED ILI visits has been highest among pediatric age groups, peaking at or above four of the previous five influenza seasons. This season, the percent of admissions for influenza has been highest among adults ages 65 years and older, but below levels observed during each of the previous five influenza seasons.

At a glance

	Week Ending 02/08/2020	Since 09/29/2019		5-Year Average to Date	
Laboratory-confirmed influenza deaths	4	22		24.2	
Respiratory disease outbreaks at long-term care facilities (LTCFs)	2	18		39	
Percentage positive influenza tests by PCR[1]	17.8%	Season Peak	24.3%		
Number of labs reporting	4	Weekly Average	7		
Number of specimens tested	876	Weekly Average	1325		
Percentage of emergency department (ED) visits for ILI[2]	3.83%	Season Peak	6.75%	5-Year Average to Date	3.07%

[1]Based on King County hospital laboratory and sentinel provider submissions to CDC's National Respiratory and Enteric Virus Surveillance System (NREVSS). NREVSS data not available for all previous seasons due to change in reporting procedures. Changes in facilities reporting to NREVSS may impact counts.
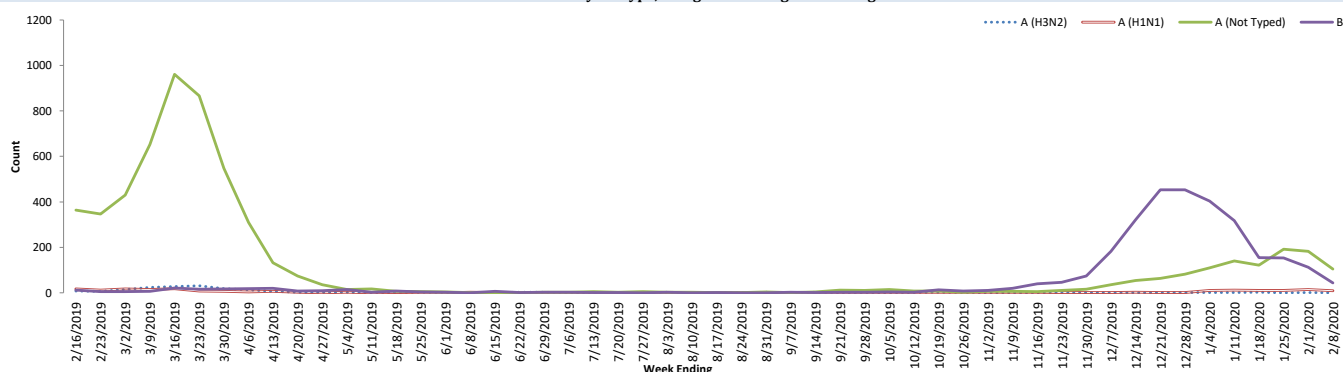
[2]Based on Public Health - Seattle & King County's syndromic surveillance data representing aggregate percent of visits to King County EDs.

## Submissions to NREVSS by King County labs, PCR testing only

Week #	Week ending	# Labs reporting	A (H1N1)	A (H3N2)	A (Not typed)	B	# Tested	% Flu positive
3	1/18/2020	6	10	2	122	155	1502	19.2%
4	1/25/2020	6	10	0	192	154	1681	21.2%
5	2/1/2020	5	15	1	182	113	1473	21.1%
6	2/8/2020	4	9	0	104	43	876	17.8%

Influenza results by subtype, PCR testing only (NREVSS)

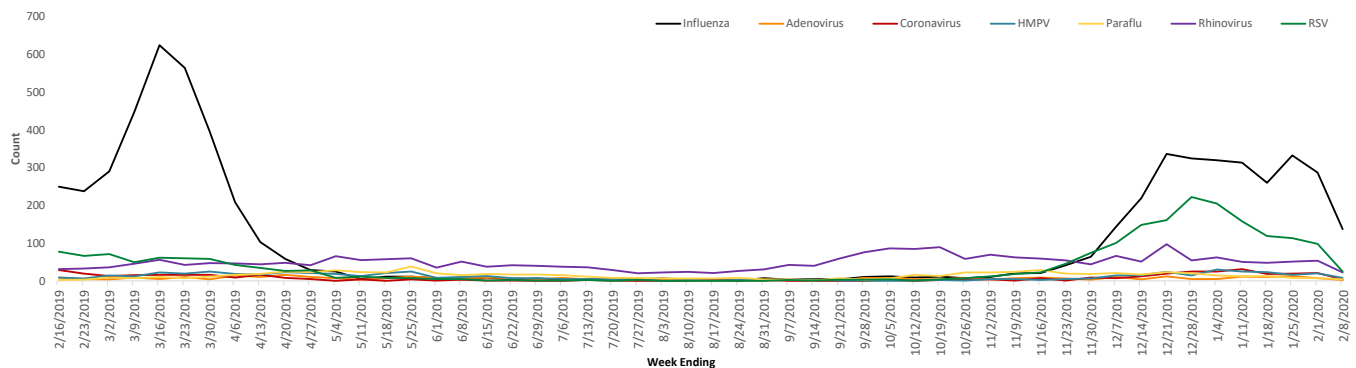**Positive Influenza Results by Subtype, Using PCR Testing Methodologies**

Positive and Negative Influenza Results, Using PCR Testing Methodologies
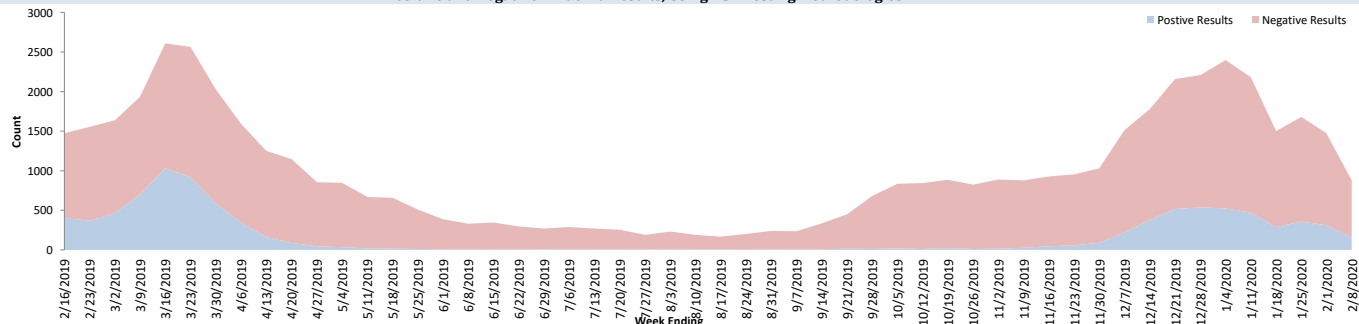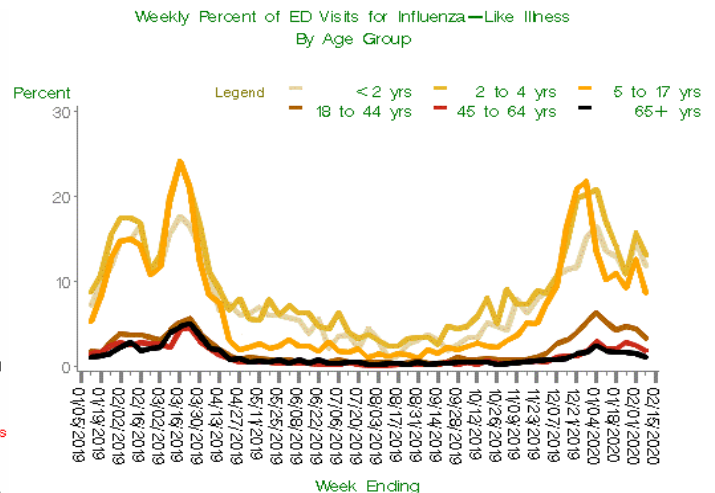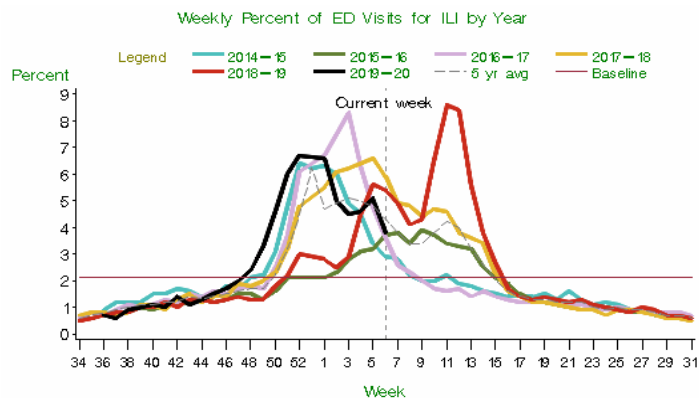
Public Health - Seattle & King County
Summary of Influenza Syndromic and Laboratory Surveillance

Influenza and other respiratory pathogens, PCR testing only (NREVSS)

Legend: Influenza, Adenovirus, Coronavirus, HMPV, Paraflu, Rhinovirus, RSV

King County syndromic surveillance

Weekly Percent of ED Visits for ILI by Year

Legend: 2014-15, 2015-16, 2016-17, 2017-18, 2018-19, 2019-20, 5 yr avg, Baseline

Note: The change from ICD-9 to ICD-10 codes in October 2015 may impact trends.
Last updated Feb 9, 2020   ; 'current week' is week ending Feb 8, 2020
Baseline: Mean % ILI during non-flu weeks for previous three seasons, adding two standard deviations.
A non-flu week is a period of 2+ consecutive weeks where each one accounted for <2% of
the season's total number of specimens that tested positive for influenza by PCR.

Weekly Percent of ED Visits for Influenza-Like Illness By Age Group

Legend: <2 yrs, 2 to 4 yrs, 5 to 17 yrs, 18 to 44 yrs, 45 to 64 yrs, 65+ yrs

ALLHOSPITALS, Last Updated   Feb 11, 2020

National data from CDC

FLUVIEW *interactive*

A Weekly Influenza Surveillance Report Prepared by the Influenza Division

Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet

2019-20 Influenza Season Week 5 ending Feb 01, 2020

ILI Activity Level: High, Moderate, Low, Minimal, Insufficient Data
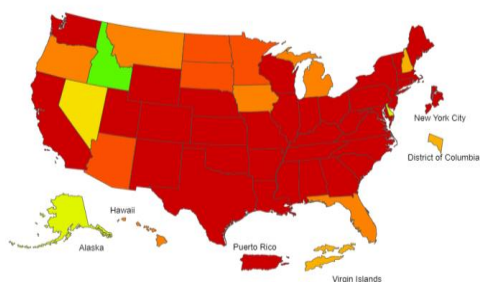
*This map uses the proportion of outpatient visits to healthcare providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.
*Data collected in ILINet may disproportionately represent certain populations within a state, and therefore may not accurately depict the full picture of influenza activity for the whole state.
*Data displayed in this map are based on data collected in ILINet, whereas the State and Territorial flu activity map are based on reports from state and territorial epidemiologists. The data presented in this map is preliminary and may change as more data is received.
*Differences in the data presented by CDC and state health departments likely represent differing levels of data completeness with data presented by the state likely being the more complete.

Please report any of the following:	Reporting Timeframe	Contact Information
• Laboratory-Confirmed influenza-associated deaths	Within 3 business days	Phone: (206) 296-4774
• Patients with novel or unsubtypable influenza viruses	Immediately	Fax: (206) 296-4803
• Outbreaks of influenza-like illness in a long-term care facility	Immediately	

Additional Resources:
Additional King County Flu Information, Resources, and Surveillance   National Influenza Update
UW Virology Laboratory Respiratory Virus Surveillance   Global Influenza Update
Washington State Influenza Surveillance Update

Public Health
Seattle & King County

Report updated on 2/12/2020

Public Health - Seattle & King County
Summary of Influenza Deaths and Long-Term Care Facility (LTCF) Influenza Outbreaks

Confirmed cases as of week 6 (ending 02/08/20)														
	2019-2020		2018-2019		2017-2018		2016-2017		2015-2016		2014-2015		5-year avg	
Influenza Deaths in Week 6	4		3		0		8		0		1		2.4	
Influenza deaths, season to date (since 9/29/2019)	22		5		23		61		4		28		24.2	
LTCF Outbreaks in Week 6	2		2		4		4		2		1		2.6	
LTCF Outbreaks, season to date (since 9/29/2019)	18		12		34		85		8		54		38.6	
	2019-2020		2018-2019		2017-2018		2016-2017		2015-2016		2014-2015		5-year avg	
Total Seasonal LTCF Outbreaks	18		43		68		92		18		65		57.2	
Flu type:														
A	9	50%	37	86%	15	22%	62	67%	7	39%	49	75%	34	59%
B	4	22%	0	0%	6	9%	3	3%	7	39%	4	6%	4	7%
A and B	2	11%	1	2%	5	7%	4	4%	0	0%	2	3%	2.4	4%
Info not available	3	17%	5	12%	42	62%	23	25%	4	22%	10	15%	16.8	29%
	2019-2020		2018-2019		2017-2018		2016-2017		2015-2016		2014-2015		5-year avg	
Total Seasonal Influenza Deaths	22		52		50		84		16		43		49	
Flu type:														
A	12	55%	48	92%	33	66%	75	89%	10	63%	40	93%	41.2	84%
H1/H1N1	5	23%	11	21%	1	2%	1	1%	6	38%	0	0%	3.8	8%
H3	1	5%	5	10%	6	12%	18	21%	1	6%	7	16%	7.4	15%
A (not typed)	6	27%	32	62%	26	52%	56	67%	3	19%	33	77%	30	61%
B	10	45%	2	4%	11	22%	7	8%	6	38%	3	7%	5.8	12%
Not typed	0	0%	2	4%	6	12%	1	1%	0	0%	0	0%	1.8	4%
Sex:														
Male	12	55%	27	52%	17	34%	41	49%	7	44%	17	40%	21.8	44%
Female	10	45%	25	48%	33	66%	43	51%	9	56%	26	60%	27.2	56%
Age:														
Under 5 years	1	5%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
5 - 17	1	5%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
18 - 44	3	14%	1	2%	0	0%	1	1%	3	19%	1	2%	1.2	2%
45 - 64	4	18%	13	25%	7	14%	5	6%	5	31%	6	14%	7.2	15%
65+ years	13	59%	38	73%	43	86%	78	93%	8	50%	36	84%	40.6	83%
Average	*61.6*		*73.6*		*81.1*		*81.9*		*64.9*		*81.7*		*76.6*	
Race:														
White	11	50%	35	67%	33	66%	54	64%	12	75%	35	81%	33.8	69%
Asian	2	9%	5	10%	2	4%	13	15%	2	13%	1	2%	4.6	9%
Black	1	5%	1	2%	3	6%	4	5%	2	13%	5	12%	3	6%
Amer Indian	1	5%	1	2%	0	0%	0	0%	0	0%	0	0%	0.2	0%
Hispanic/Latino	2	9%	2	4%	2	4%	3	4%	0	0%	1	2%	1.6	3%
Other	1	5%	0	0%	1	2%	1	1%	0	0%	1	2%	0.6	1%
Unknown	4	18%	8	15%	9	18%	9	11%	0	0%	0	0%	5.2	11%
Flu vaccine status														
Up to date	10	45%	16	31%	26	52%	39	46%	6	38%	21	49%	21.6	44%
Not up to date	11	50%	19	37%	10	20%	20	24%	8	50%	5	12%	12.4	25%
Unknown	1	5%	17	33%	14	28%	25	30%	2	13%	17	40%	15	31%

Report updated on 2/12/2020