Influenza Update: January 4, 2020

During the week ending January 4, 2020:

• There were two new influenza-related deaths and two new outbreaks reported this week. Six deaths and eight outbreaks at long-term care facilities have been reported this season (since 9/29/2019). Two additional deaths have been reported during the week beginning January 5th, but are not reflected in the numbers of this report (which covers 9/29/2019 through 1/4/2020). These will be reflected in next week's report.

• 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 at or below peak levels observed during the previous five seasons.

• Among every age group except adults ages 45 years and older, the percent of emergency department (ED) visits for influenza-like illness (ILI) overall this season is higher than observed during each of the previous 5 seasons.

• Among all ages combined, the percent of ED ILI visits for the week ending January 4th was above baseline levels, but below peak levels observed during four of the previous five influenza seasons.

• Thus far this season, the percent of ED ILI visits has been highest among pediatric age groups, but the percent of admissions for influenza has been highest among adults ages 65 and older.

At a glance

	Week Ending 01/04/2020	Since 09/29/2019		5-Year Average to Date	
Laboratory-confirmed influenza deaths	2	6		3.6	
Respiratory disease outbreaks at long-term care facilities (LTCFs)	2	8		14	
Percentage positive influenza tests by PCR[1]	22.6%	Season Peak	25.3%		
Number of labs reporting	6	Weekly Average	7		
Number of specimens tested	2178	Weekly Average	1206		
Percentage of emergency department (ED) visits for ILI[2]	5.94%	Season Peak	6.72%	5-Year Average to Date	2.25%

[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.
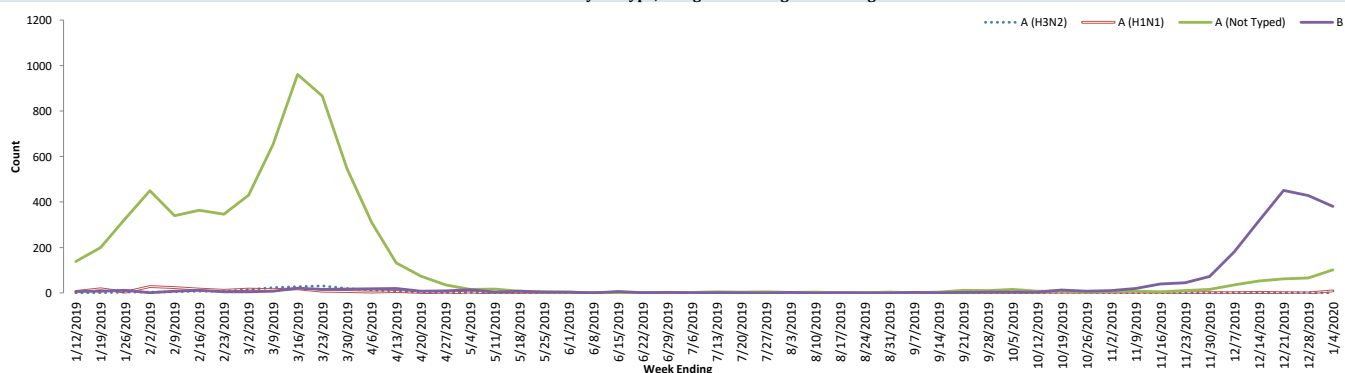
[2]Based on Public Health - Seattle & King County's syndromic surveillance data representing aggregate percent of visits to King County EDs.

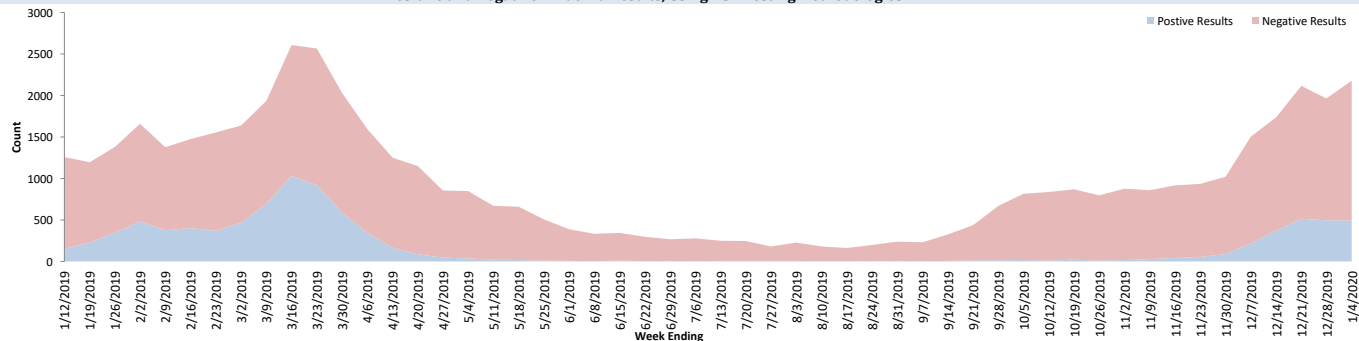## Submissions to NREVSS by King County labs, PCR testing only

Week #	Week ending	# Labs reporting	A (H1N1)	A (H3N2)	A (Not typed)	B	# Tested	% Flu positive
50	12/14/2019	7	2	0	53	317	1736	21.4%
51	12/21/2019	7	1	0	62	451	2115	24.3%
52	12/28/2019	6	0	1	66	429	1963	25.3%
1	1/4/2020	6	9	0	102	381	2178	22.6%

Influenza results by subtype, PCR testing only (NREVSS)

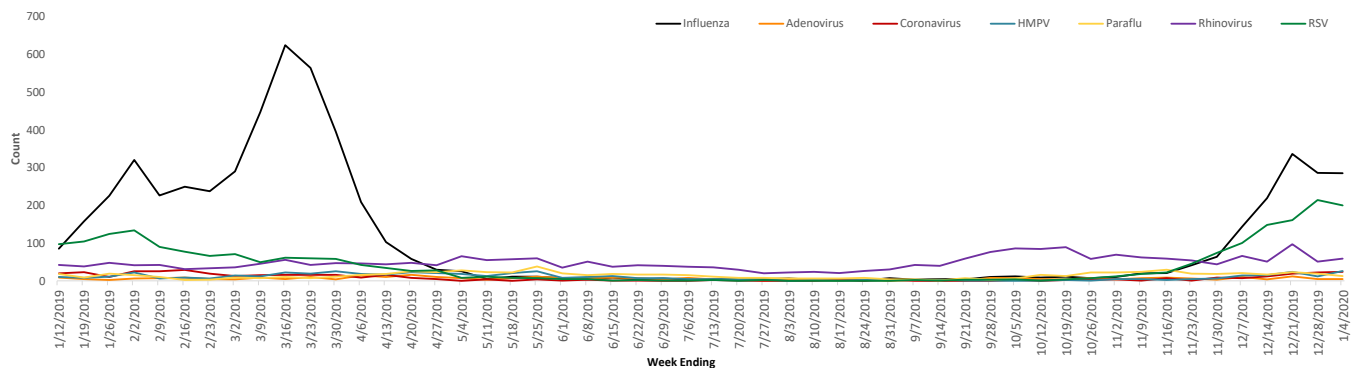**Positive Influenza Results by Subtype, Using PCR Testing Methodologies**

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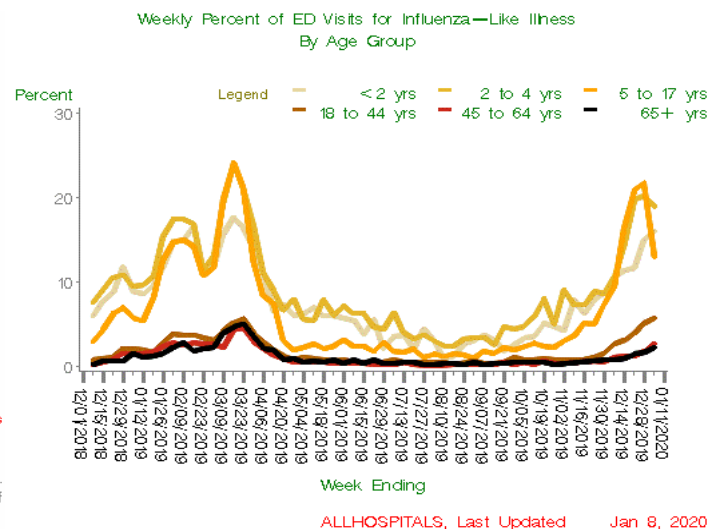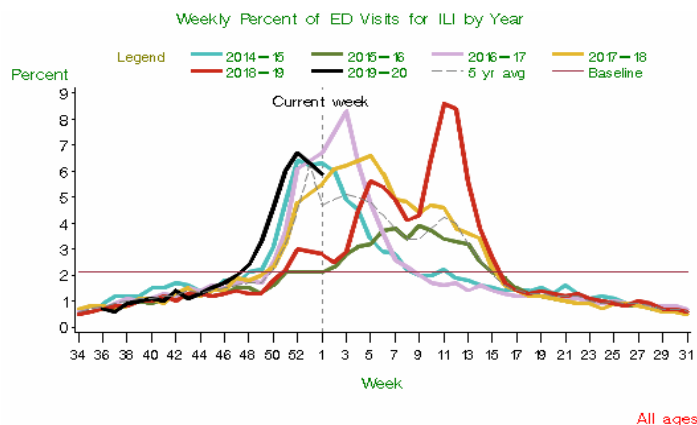
Public Health - Seattle & King County
Summary of Influenza Syndromic and Laboratory Surveillance

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

Current week

All ages

Note: The change from ICD—9 to ICD—10 codes in October 2015 may impact trends.
Last updated Jan 5, 2020   ; 'current week' is week ending Jan 4, 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

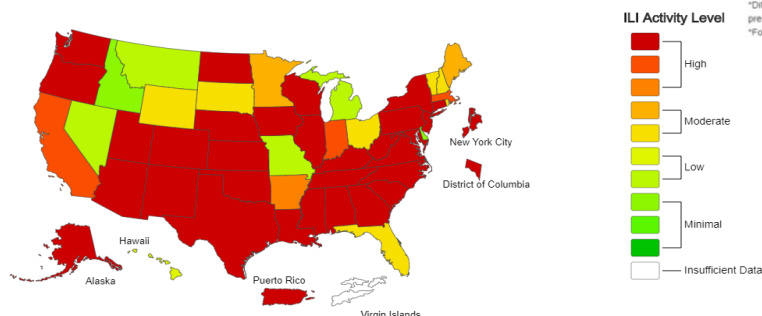ALLHOSPITALS, Last Updated   Jan 8, 2020

National data from CDC

FLUVIEW   CDC

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 52 ending Dec 28, 2019

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.
*For the data download you can use Activity Level for the number and Activity Level Label for the text description.

Please report any of the following:
- Laboratory-Confirmed influenza-associated deaths
- Patients with novel or unsubtypable influenza viruses
- Outbreaks of influenza-like illness in a long-term care facility

Reporting Timeframe
Within 3 business days
Immediately
Immediately

Contact Information
Phone: (206) 296-4774
Fax: (206) 296-4803

Public Health
Seattle & King County

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

National Influenza Update
Global Influenza Update

Report updated on 1/8/2020

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

Confirmed cases as of week 1 (ending 01/04/20)														
	2019-2020		2018-2019		2017-2018		2016-2017		2015-2016		2014-2015		5-year avg	
Influenza Deaths in Week 1	2		0		2		3		0		1		1.2	
Influenza deaths, season to date (since 9/29/2019)	6		0		5		8		2		3		3.6	
LTCF Outbreaks in Week 1	2		1		3		17		1		4		5.2	
LTCF Outbreaks, season to date (since 9/29/2019)	8		3		12		35		5		17		14.4	
	2019-2020		**2018-2019**		**2017-2018**		**2016-2017**		**2015-2016**		**2014-2015**		**5-year avg**	
Total Seasonal LTCF Outbreaks	8		43		68		92		18		65		57.2	
Flu type:														
A	5	63%	37	86%	15	22%	62	67%	7	39%	49	75%	34	59%
B	2	25%	0	0%	6	9%	3	3%	7	39%	4	6%	4	7%
A and B	0	0%	1	2%	5	7%	4	4%	0	0%	2	3%	2.4	4%
Info not available	1	13%	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	6		52		50		84		16		43		49	
Flu type:														
A	2	33%	48	92%	33	66%	75	89%	10	63%	40	93%	41.2	84%
H1/H1N1	1	17%	11	21%	1	2%	1	1%	6	38%	0	0%	3.8	8%
H3	0	0%	5	10%	6	12%	18	21%	1	6%	7	16%	7.4	15%
A (not typed)	1	17%	32	62%	26	52%	56	67%	3	19%	33	77%	30	61%
B	4	67%	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	3	50%	27	52%	17	34%	41	49%	7	44%	17	40%	21.8	44%
Female	3	50%	25	48%	33	66%	43	51%	9	56%	26	60%	27.2	56%
Age:														
Under 5 years	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
5 - 17	1	17%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
18 - 44	0	0%	1	2%	0	0%	1	1%	3	19%	1	2%	1.2	2%
45 - 64	1	17%	13	25%	7	14%	5	6%	5	31%	6	14%	7.2	15%
65+ years	4	67%	38	73%	43	86%	78	93%	8	50%	36	84%	40.6	83%
Average	*66.5*		*73.6*		*81.1*		*81.9*		*64.9*		*81.7*		*76.6*	
Race:														
White	4	67%	35	67%	33	66%	54	64%	12	75%	35	81%	33.8	69%
Asian	0	0%	5	10%	2	4%	13	15%	2	13%	1	2%	4.6	9%
Black	0	0%	1	2%	3	6%	4	5%	2	13%	5	12%	3	6%
Amer Indian	0	0%	1	2%	0	0%	0	0%	0	0%	0	0%	0.2	0%
Hispanic/Latino	1	17%	2	4%	2	4%	3	4%	0	0%	1	2%	1.6	3%
Other	0	0%	0	0%	1	2%	1	1%	0	0%	1	2%	0.6	1%
Unknown	1	17%	8	15%	9	18%	9	11%	0	0%	0	0%	5.2	11%
Flu vaccine status														
Up to date	2	33%	16	31%	26	52%	39	46%	6	38%	21	49%	21.6	44%
Not up to date	4	67%	19	37%	10	20%	20	24%	8	50%	5	12%	12.4	25%
Unknown	0	0%	17	33%	14	28%	25	30%	2	13%	17	40%	15	31%

Report updated on 1/8/2020