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

Influenza Update: December 21, 2019

During the week ending December 21, 2019:

• There was one new influenza-related death and no new outbreaks reported this week. Four deaths and five 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 at or below peak levels observed during the previous five seasons.

• The percent of emergency department (ED) visits for influenza-like illness (ILI) is on an increasing trend, and is at or above baseline levels among all ages combined, as well as among every age group. The percent of ED ILI visits is highest in the pediatric population.

• Among children ages 5-17 years, the percent of ED ILI visits exceeded peak levels observed during four out of the five previous seasons.

At a glance

	Week Ending 12/21/2019	Since 09/29/2019		5-Year Average to Date	
Laboratory-confirmed influenza deaths	1	4		1.6	
Respiratory disease outbreaks at long-term care facilities (LTCFs)	0	5		6	
Percentage positive influenza tests by PCR[1]	30.8%	Season Peak	30.8%		
Number of labs reporting	4	Weekly Average	7		
Number of specimens tested	1417	Weekly Average	1009		
Percentage of emergency department (ED) visits for ILI[2]	5.3%	Season Peak	5.3%	5-Year Average to Date	1.92%

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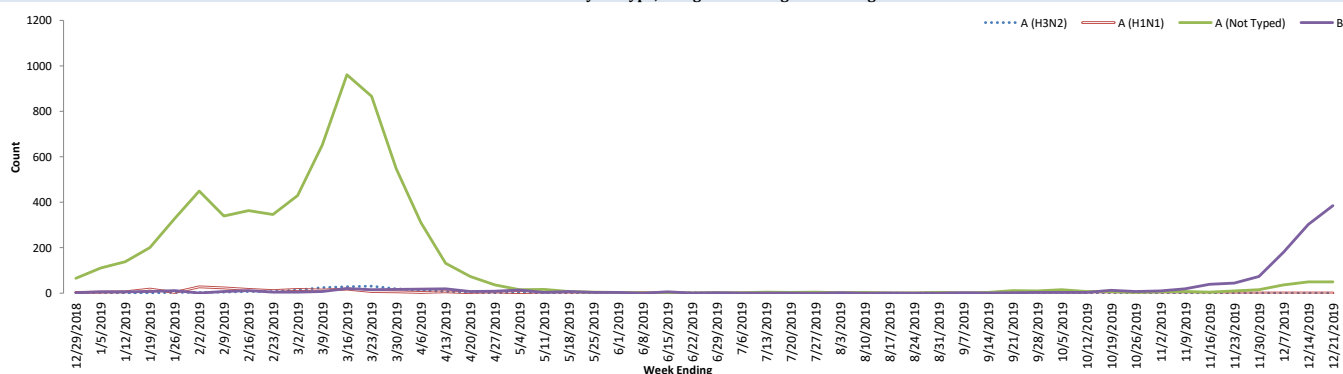
[2]Based on Public Health - Seattle & King County's syndromic surveillance data representing aggregate percent of visits to King County EDs.

## 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
48	11/30/2019	7	1	0	16	73	1021	8.8%
49	12/7/2019	7	1	0	36	181	1505	14.5%
50	12/14/2019	6	1	0	50	303	1608	22%
51	12/21/2019	4	1	0	50	385	1417	30.8%

Influenza results by subtype, PCR testing only (NREVSS)

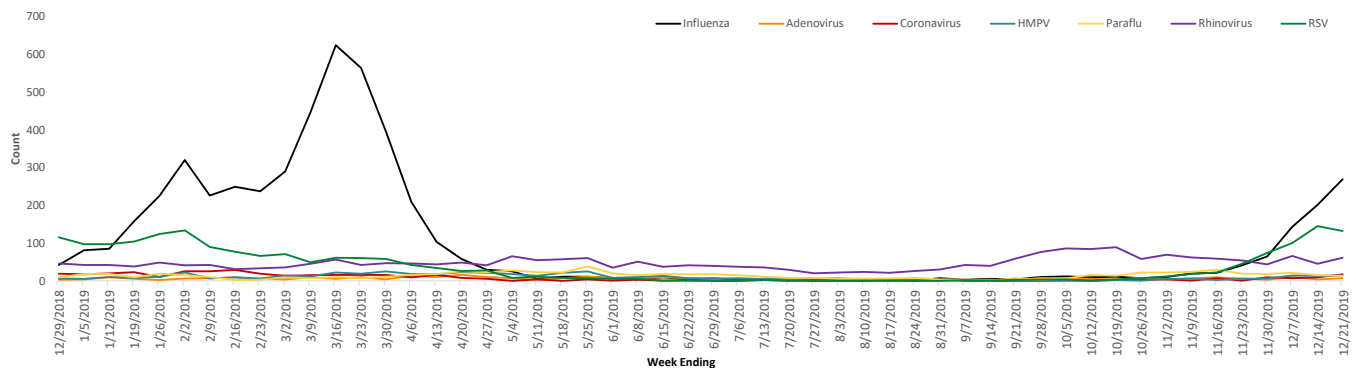**Positive Influenza Results by Subtype, Using PCR Testing Methodologies**

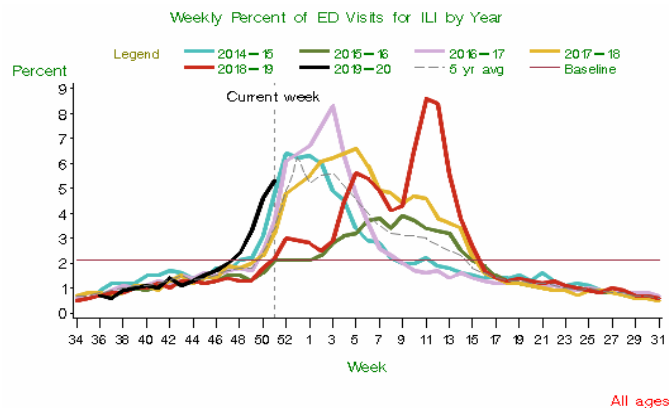**Positive and Negative Influenza Results, Using PCR Testing Methodologies**
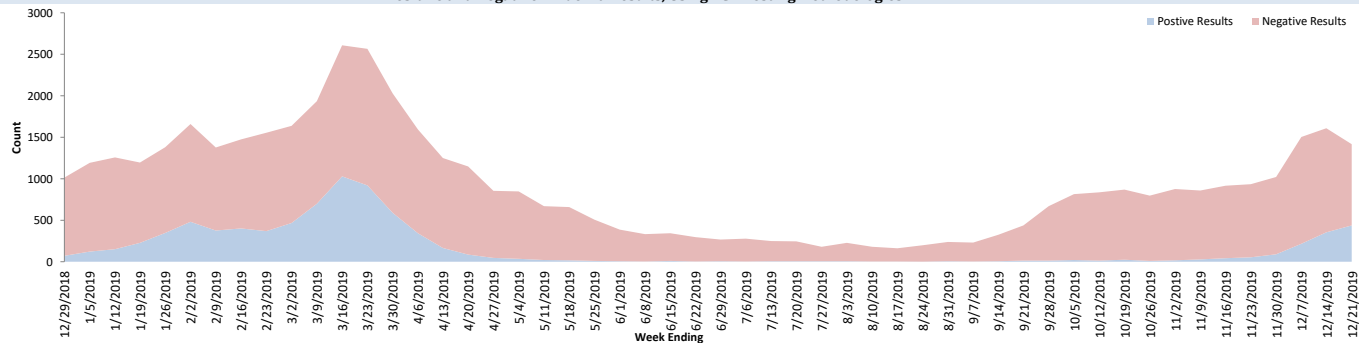
Public Health - Seattle & King County
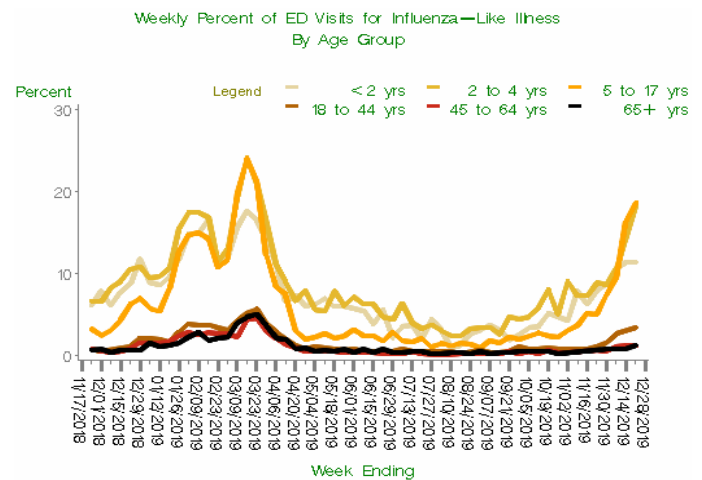## Summary of Influenza Syndromic and Laboratory Surveillance

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

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 Dec 22, 2019 ; 'current week' is week ending Dec 21, 2019
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

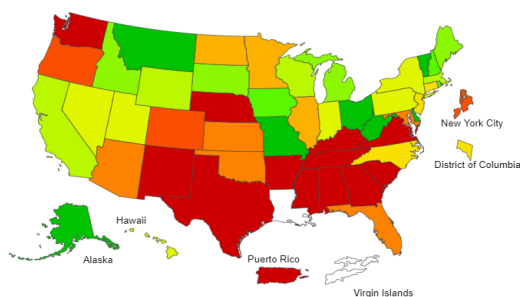ALLHOSPITALS, Last Updated Dec 24, 2019

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 50 ending Dec 14, 2019

*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.

ILI Activity Level: High, Moderate, Low, Minimal, Insufficient Data

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

Confirmed cases as of week 51 (ending 12/21/19)														
		2019-2020		2018-2019		2017-2018		2016-2017		2015-2016		2014-2015		5-year avg
Influenza Deaths in Week 51		1		0		0		0		0		1		0.2
Influenza deaths, season to date (since 9/29/2019)		4		0		1		3		2		2		1.6
LTCF Outbreaks in Week 51		0		0		3		1		0		5		1.8
LTCF Outbreaks, season to date (since 9/29/2019)		5		2		4		9		3		10		5.6

	2019-2020		2018-2019		2017-2018		2016-2017		2015-2016		2014-2015		5-year avg	
Total Seasonal LTCF Outbreaks	5		43		68		92		18		65		57.2	
Flu type:														
A	4	80%	37	86%	15	22%	62	67%	7	39%	49	75%	34	59%
B	1	20%	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	0	0%	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	4		52		50		84		16		43		49	
Flu type:														
A	1	25%	48	92%	33	66%	75	89%	10	63%	40	93%	41.2	84%
H1/H1N1	0	0%	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	25%	32	62%	26	52%	56	67%	3	19%	33	77%	30	61%
B	3	75%	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	2	50%	27	52%	17	34%	41	49%	7	44%	17	40%	21.8	44%
Female	2	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	25%	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	25%	13	25%	7	14%	5	6%	5	31%	6	14%	7.2	15%
65+ years	2	50%	38	73%	43	86%	78	93%	8	50%	36	84%	40.6	83%
Average	*55.5*		*73.6*		*81.1*		*81.9*		*64.9*		*81.7*		*76.6*	
Race:														
White	3	75%	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	25%	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	0	0%	8	15%	9	18%	9	11%	0	0%	0	0%	5.2	11%
Flu vaccine status														
Up to date	0	0%	16	31%	26	52%	39	46%	6	38%	21	49%	21.6	44%
Not up to date	4	100%	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 12/24/2019