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

Influenza Update: October 5, 2019
First report of the 2019-2020 season

During the week ending October 5, 2019:

• There was one new influenza-related death and two new outbreaks reported this week. One death and two outbreaks at long-term care facilities have been reported this season (since 9/29/2019).

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

• The percent of visits to King County emergency departments (ED) for influenza-like illness (ILI) was comparable to the 5-year average for this time of year, and below peak levels observed during the previous 5 influenza seasons. The magnitude of ED ILI visits relative to the total number of ED visits was highest among the pediatric population.

At a glance

	Week Ending 10/05/2019	Since 09/29/2019		5-Year Average to Date	
Laboratory-confirmed influenza deaths	1	1		0	
Respiratory disease outbreaks at long-term care facilities (LTCFs)	2	2		1	
Percentage positive influenza tests by PCR[1]	2.3%	Season Peak	2.3%		
Number of labs reporting	6	Weekly Average	7		
Number of specimens tested	734	Weekly Average	704		
Percentage of emergency department (ED) visits for ILI[2]	0.94%	Season Peak	1.01%	5-Year Average to Date	0.99%

[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
37	9/14/2019	5	0	2	4	1	309	2.3%
38	9/21/2019	5	0	0	9	2	411	2.7%
39	9/28/2019	7	0	0	10	3	673	1.9%
40	10/5/2019	6	0	0	14	3	734	2.3%

Influenza results by subtype, PCR testing only (NREVSS)

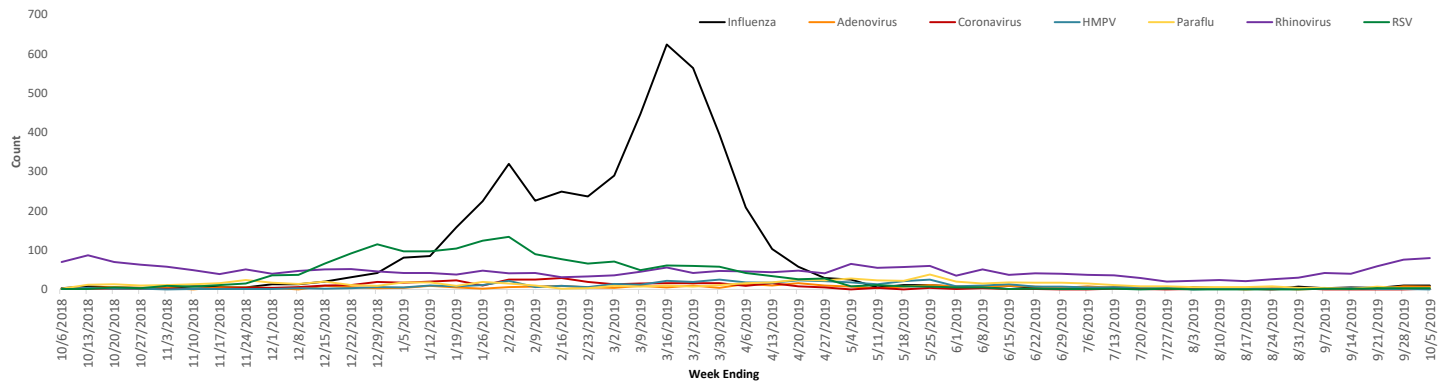Positive Influenza Results by Subtype, Using PCR Testing Methodologies
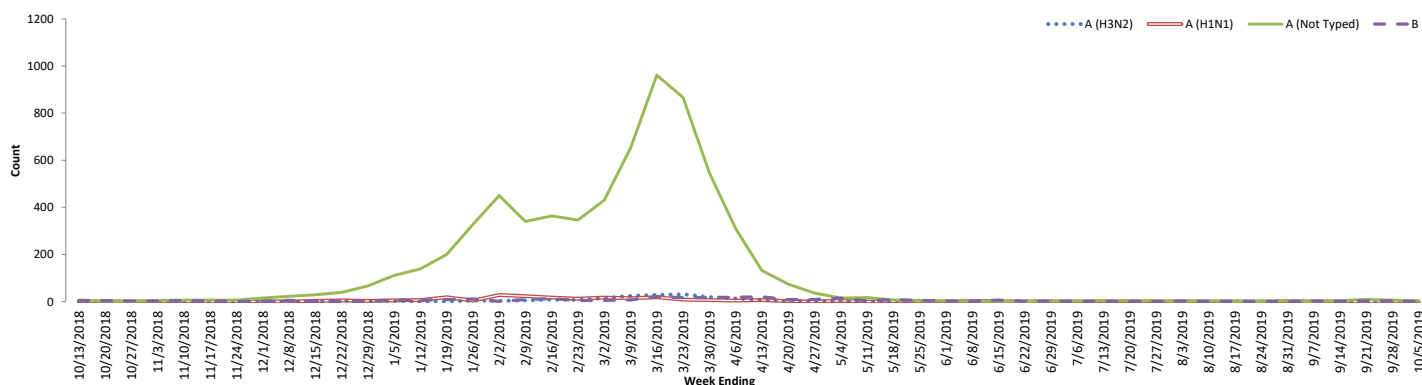
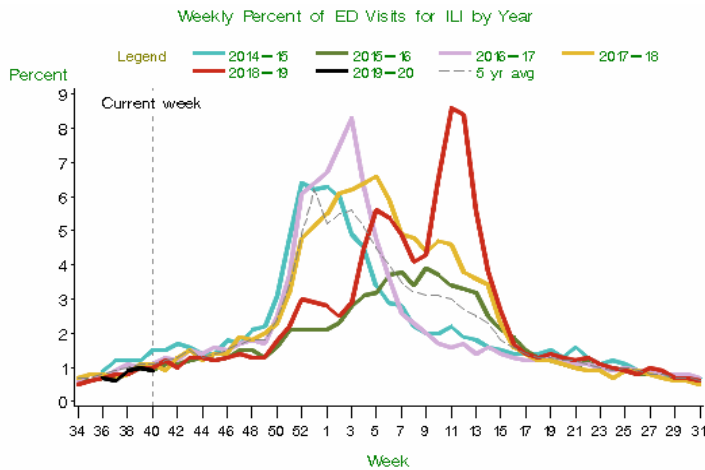Positive and Negative Influenza Results, Using PCR Testing Methodologies
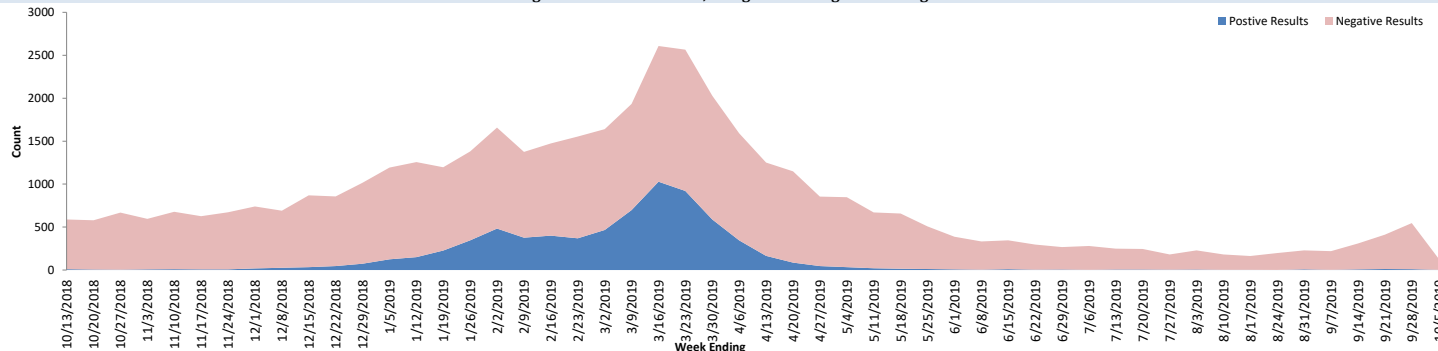
Public Health - Seattle & King County

## 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

Note: The change from ICD-9 to ICD-10 codes in October 2015 may impact trends.
Last updated Oct 6, 2019 ; 'current week' is week ending Oct 5, 2019

Weekly Percent of ED Visits for Influenza—Like Illness By Age Group
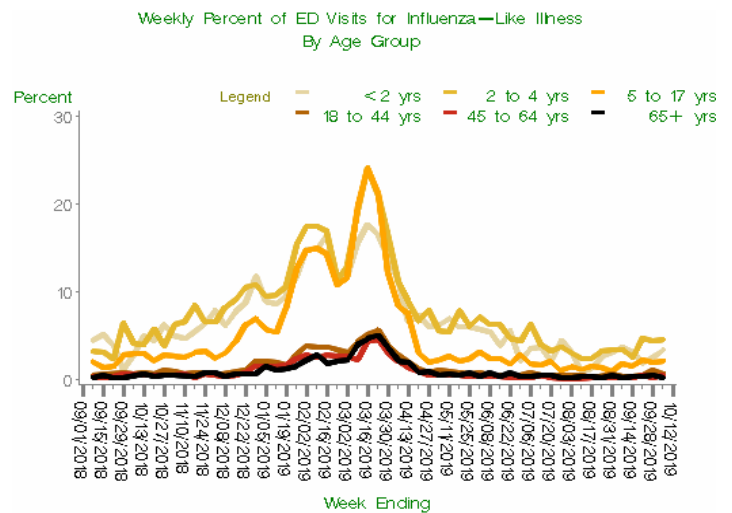
ALLHOSPITALS, Last Updated Oct 8, 2019

National data from CDC

Pneumonia and Influenza Mortality from the National Center for Health Statistics Mortality Surveillance System
Data through the week ending September 21, 2019, as of October 3, 2019

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

Confirmed cases as of week 40 (ending 10/05/19)														
	2019-2020		**2018-2019**		**2017-2018**		**2016-2017**		**2015-2016**		**2014-2015**		**5-year avg**	
Influenza Deaths in Week 40	**1**		**0**		**0**		**0**		**0**		**0**		**0.0**	
Influenza deaths, season to date (since 9/29/2019)	**1**		**0**		**0**		**0**		**0**		**0**		**0.0**	
LTCF Outbreaks in Week 40	**2**		**1**		**0**		**1**		**0**		**0**		**0.4**	
LTCF Outbreaks, season to date (since 9/29/2019)	**2**		**1**		**0**		**2**		**0**		**0**		**0.6**	
	2019-2020		**2018-2019**		**2017-2018**		**2016-2017**		**2015-2016**		**2014-2015**		**5-year avg**	
Total Seasonal LTCF Outbreaks	**2**		**43**		**68**		**92**		**18**		**65**		**57.2**	
Flu type:														
A	1	50%	37	86%	15	22%	62	67%	7	39%	49	75%	34	59%
B	0	0%	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	50%	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	**1**		**52**		**50**		**84**		**16**		**43**		**49**	
Flu type:														
A	1	100%	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	100%	32	62%	26	52%	56	67%	3	19%	33	77%	30	61%
B	0	0%	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	1	100%	27	52%	17	34%	41	49%	7	44%	17	40%	21.8	44%
Female	0	0%	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	0	0%	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	0	0%	13	25%	7	14%	5	6%	5	31%	6	14%	7.2	15%
65+ years	1	100%	38	73%	43	86%	78	93%	8	50%	36	84%	40.6	83%
Average	85		73.6		81.1		81.9		64.9		81.7		76.6	
Race:														
White	1	100%	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	0	0%	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	1	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%