Maine Weekly Influenza Surveillance Report

February 18, 2020

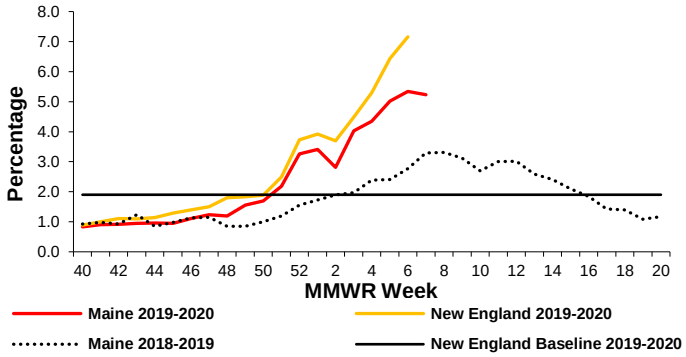
For MMWR week 07 (ending 02/15/2020)

Geographic Spread: Widespread

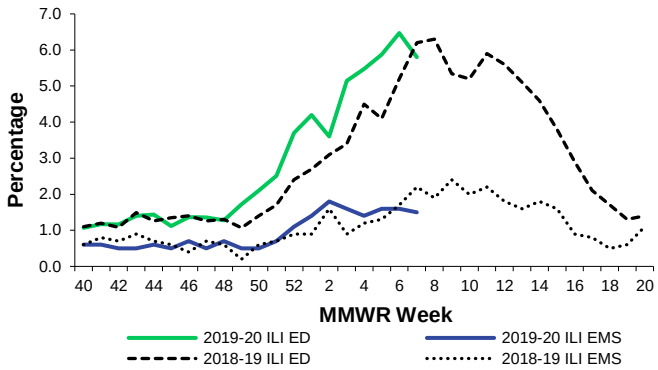
Surveillance Information – Maine, 2019-2020 Influenza Season

- Number of ILINet Providers reporting: 49
  - % of visits for Influenza-Like Illness (ILI): 5.23
- Syndromic Surveillance
  - % of Emergency Room visits for ILI: 5.8
  - % of Emergency Medical Services (EMS) runs for ILI: 1.5

Outpatient Visits for ILI – Maine, 2018-20



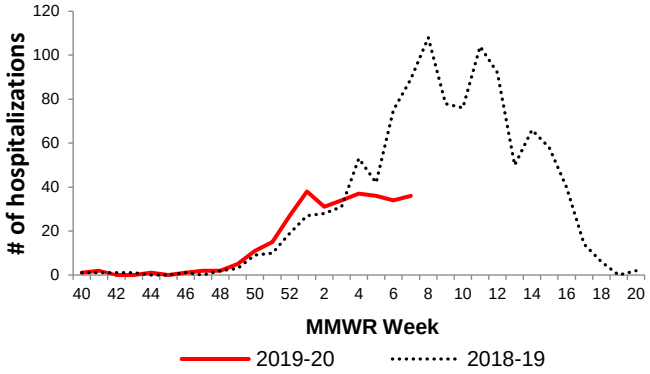
Syndromic Surveillance data for ILI – Maine, 2018 -20



Influenza Hospitalizations

- # of hospitalizations: 36

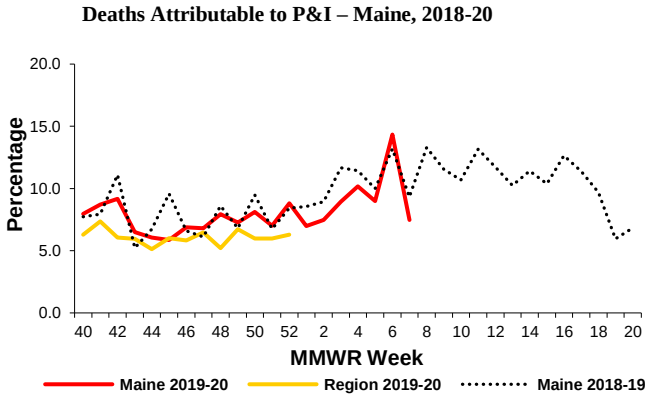
Influenza Hospitalizations – Maine, 2018-20



Pneumonia and Influenza (P&I) Deaths

- % of deaths due to P&I: 7.5
- # influenza deaths reported this week: 0
- Total influenza deaths this season: 19

Deaths Attributable to P&I – Maine, 2018-20



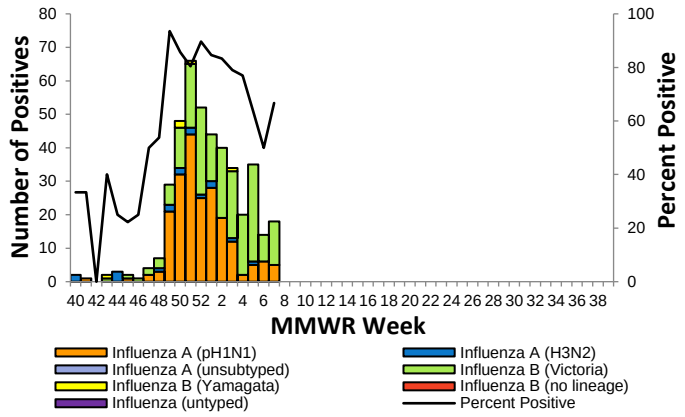
*This number represents the number of individuals who had influenza specifically listed on their death certificate. This is likely an underrepresentation of the true burden, as many influenza-associated deaths are due to secondary infections. This is why Maine CDC reports Pneumonia and Influenza (P&I) deaths.

All data is preliminary and subject to change

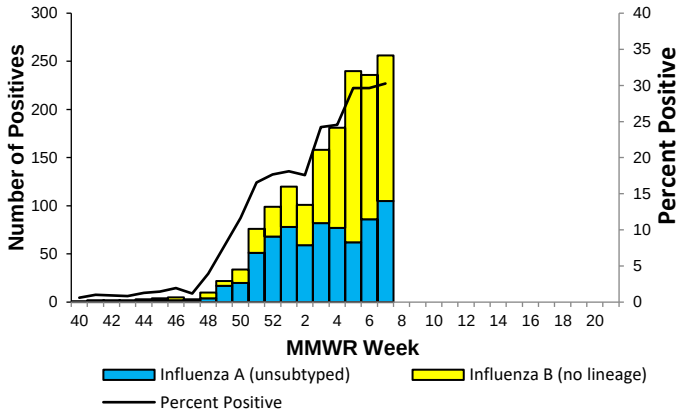
Lab Data – Maine, 2019-2020 Influenza Season

- # of samples tested at HETL: 27
  - # positive: 18
  - % positive: 67
- # of samples tested at Maine Reference Labs: 846
  - # positive: 256
  - % positive: 30.3
- # of samples positive by rapid antigen test: 389

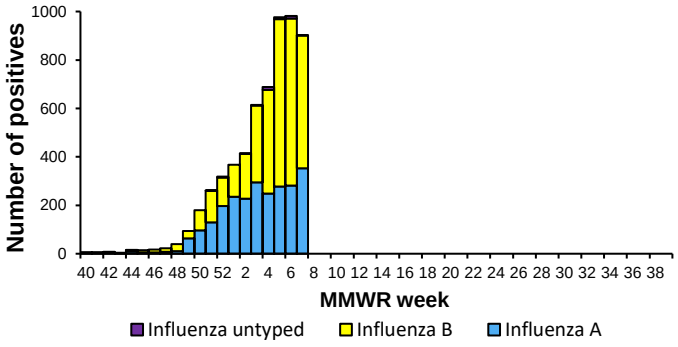
Positive PCR Samples for Influenza, HETL – Maine, 2019-20



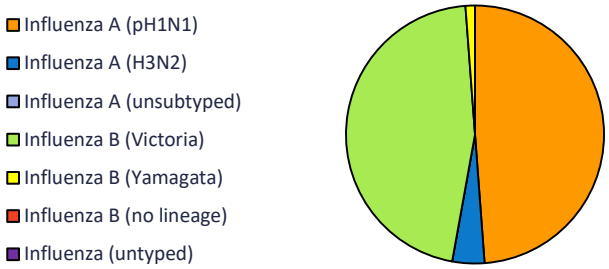
Positive Samples for Influenza, Maine Reference Labs – Maine, 2019-20



Total Reported Positive Influenza Tests – Maine, 2019-20



Cumulative Influenza Positive Tests by Strain, HETL – Maine, 2019-20



Antiviral Resistance – Maine, 2019-20 Influenza Season

- # of Influenza A (pH1N1) samples tested for Tamiflu resistance at HETL: 126
  - # with resistance: 0
- # of Influenza A (H3) samples tested for Tamiflu resistance at HETL: 0
  - # with resistance: 0

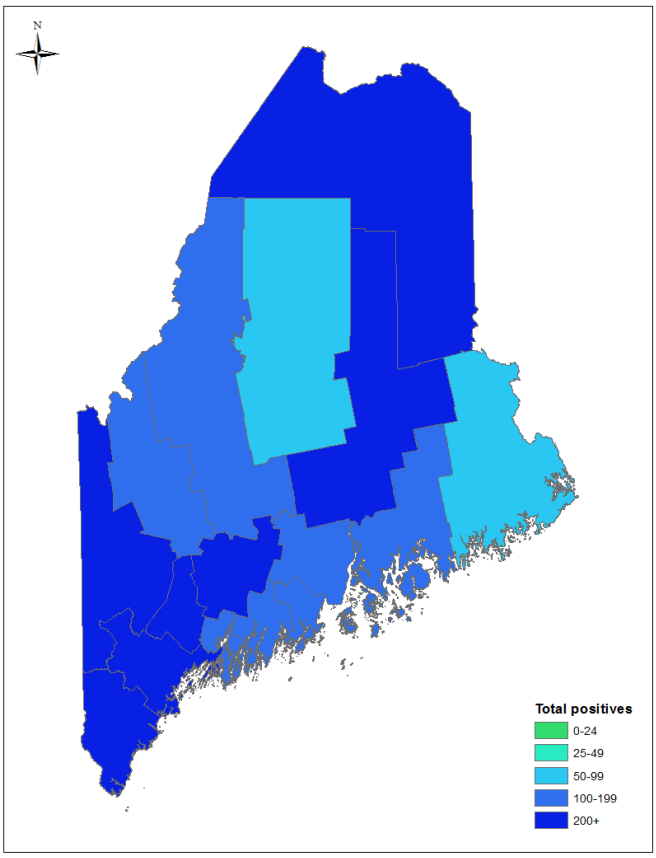
All data is preliminary and subject to change

Geographic Distribution of Lab Tests, Maine 2019-20*

County	Positive labs		Hospitalizations	
	Tested this week	Total	New this week	Total
Androscoggin	107	498	1	20
Aroostook	64	391	4	12
Cumberland	129	963	6	71
Franklin	26	131	4	25
Hancock	23	183	3	9
Kennebec	48	264	1	20
Knox	25	161	0	3
Lincoln	25	135	0	6
Oxford	40	253	1	20
Penobscot	129	664	8	32
Piscataquis	21	75	0	3
Sagadahoc	17	131	1	6
Somerset	24	176	0	14
Waldo	32	149	3	10
Washington	30	99	1	4
York	198	1682	3	58
Total	**938**	**5955**	**36**	**313**

*Only reported PCR, culture, and rapid antigen tests are included in the chart and map.

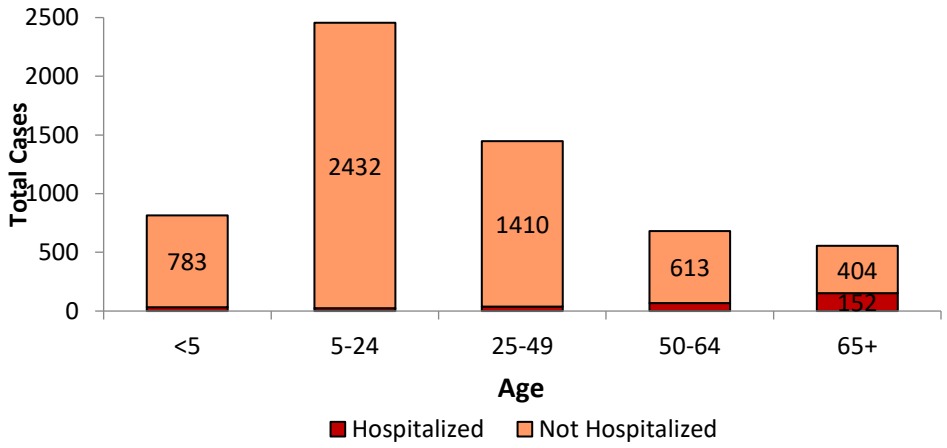
Positive Influenza Tests, Maine 2019-20



Age Information – Maine, 2019-20 Influenza Season

	Cases	Hospitalizations	Deaths
Minimum Age	6 days	6 days	38 years
Mean Age	27 years	56 years	74 years
Maximum Age	104 years	104 years	104 years

Positive Influenza Tests by Age and Hospitalization Status – Maine, 2019-20



All data is preliminary and subject to change

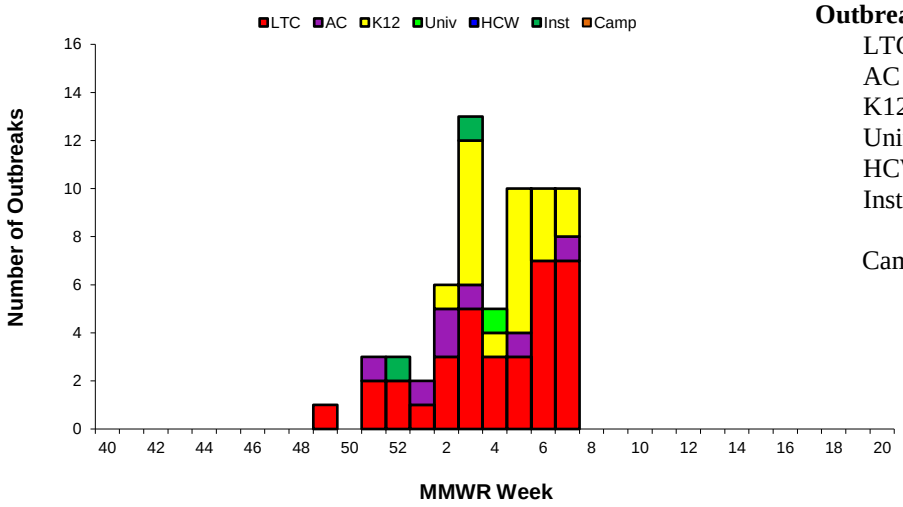
Antigenic Characterization (Vaccine Strain Match)

- Federal CDC has antigenically characterized 244 influenza viruses from September 29– February 8, 2020.
  - 100% of influenza A/H1N1 samples match the vaccine strain
  - 43.1% of influenza A/H3N2 samples match the vaccine strain
  - 60.2% of influenza B/Victoria samples match the vaccine strain
  - 100% of influenza B/Yamagata samples match the vaccine strain
- Antigenic characterization shows if the circulating strains are the same strains that were used to make the vaccine. This does not tell you how effective the vaccine is at creating an immune response.

Influenza-Like Illness Outbreaks – Maine, 2019-20 Influenza Season

- # new outbreaks: 10
- Total outbreaks 2019-20 season: 62

Influenza-Like Illness Outbreaks by Facility Type – Maine, 2019-20



Outbreak Facility Type Key:

LTC - Long Term Care Facility
AC - Acute Care Facility (nosocomial)
K12 - School (K-12) or daycare
Univ - School (residential) or University
HCW - Health care workers
Inst - Other institutions (workplaces, correctional facilities etc)
Camp - Camp

Influenza-Like Illness Outbreak by Facility Type and County – Maine, 2019-20

County	LTC	AC	K12	Univ	HCW	Inst	Camp	Total
Androscoggin	3	1	1	1	0	0	0	6
Aroostook	3	0	0	0	0	0	0	3
Cumberland	7	3	5	0	0	2	0	17
Franklin	0	1	1	0	0	0	0	2
Hancock	0	0	2	0	0	0	0	2
Kennebec	4	0	0	0	0	0	0	4
Knox	1	0	0	0	0	0	0	1
Lincoln	0	0	2	0	0	0	0	2
Oxford	2	1	1	0	0	0	0	4
Penobscot	3	0	0	0	0	0	0	3
Piscataquis	0	0	0	0	0	0	0	0
Sagadahoc	1	0	0	0	0	0	0	1
Somerset	0	0	1	0	0	0	0	1
Waldo	1	0	1	0	0	0	0	2
Washington	1	0	0	0	0	0	0	1
York	7	1	5	0	0	0	0	13
Total	33	7	19	1	0	2	0	62

National Influenza Surveillance Data
Source: https://www.cdc.gov/flu/weekly/

