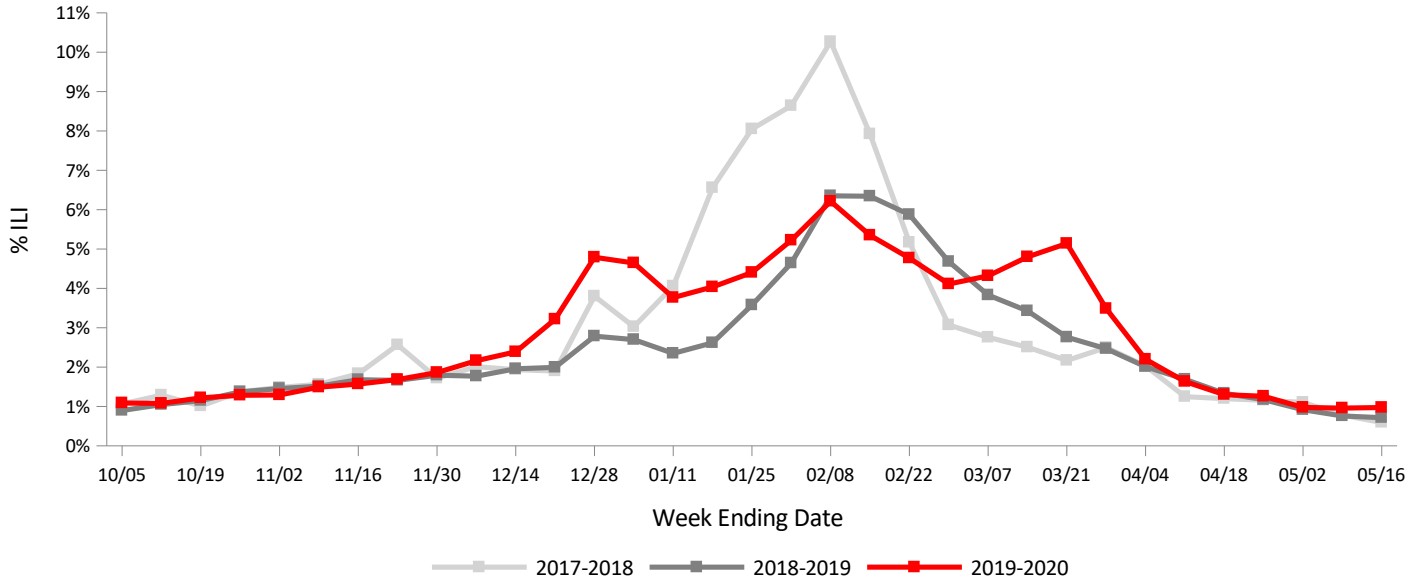
NORTH CAROLINA WEEKLY INFLUENZA SURVEILLANCE SUMMARY

WEEK ENDING MAY 16, 2020 2019-2020 INFLUENZA SEASON

FINAL SUMMARY

Percent of Total Outpatient Visits with ILI, NC 2017-2020

(Data Source: Influenza-Like Illness (ILINET))



*For more information about national data visit https://www.cdc.gov/flu/weekly/index.htm.
Since symptoms of COVID-19 and Influenza are very similar, %ILI may be affected by the COVID-19 pandemic.

Statewide Updates	Influenza-like illness (ILI) remained low for week ending May 16, 2020. The geographic spread of flu was NO ACTIVITY this week. Of the 33 specimens submitted to the State Laboratory of Public Health (SLPH) for viral testing this week, none were positive for influenza virus. Hospital-based Public Health Epidemiologists (PHEs) reported 1 positive influenza virus results out of 818 samples tested during week ending 5/16/2020; 1 was positive for influenza B(unknown) virus.
Regional Updates	The proportion of visits due to ILI in Region 4 (Southeastern US) was at 0.87% for week 19 (ending 5/9/2020). The baseline for the region is 2.4%.
National Updates	The proportion of outpatient visits due to ILI nationally was at 1.23% for week 19 (ending 5/9/2020). The national baseline for ILI is 2.4%.
International Updates	Worldwide seasonal influenza B viruses accounted for a majority of detections followed by influenza A viruses. For more country specific details please visit: http://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/

For more flu information visit https://flu.nc.gov and https://www.cdc.gov/flu.

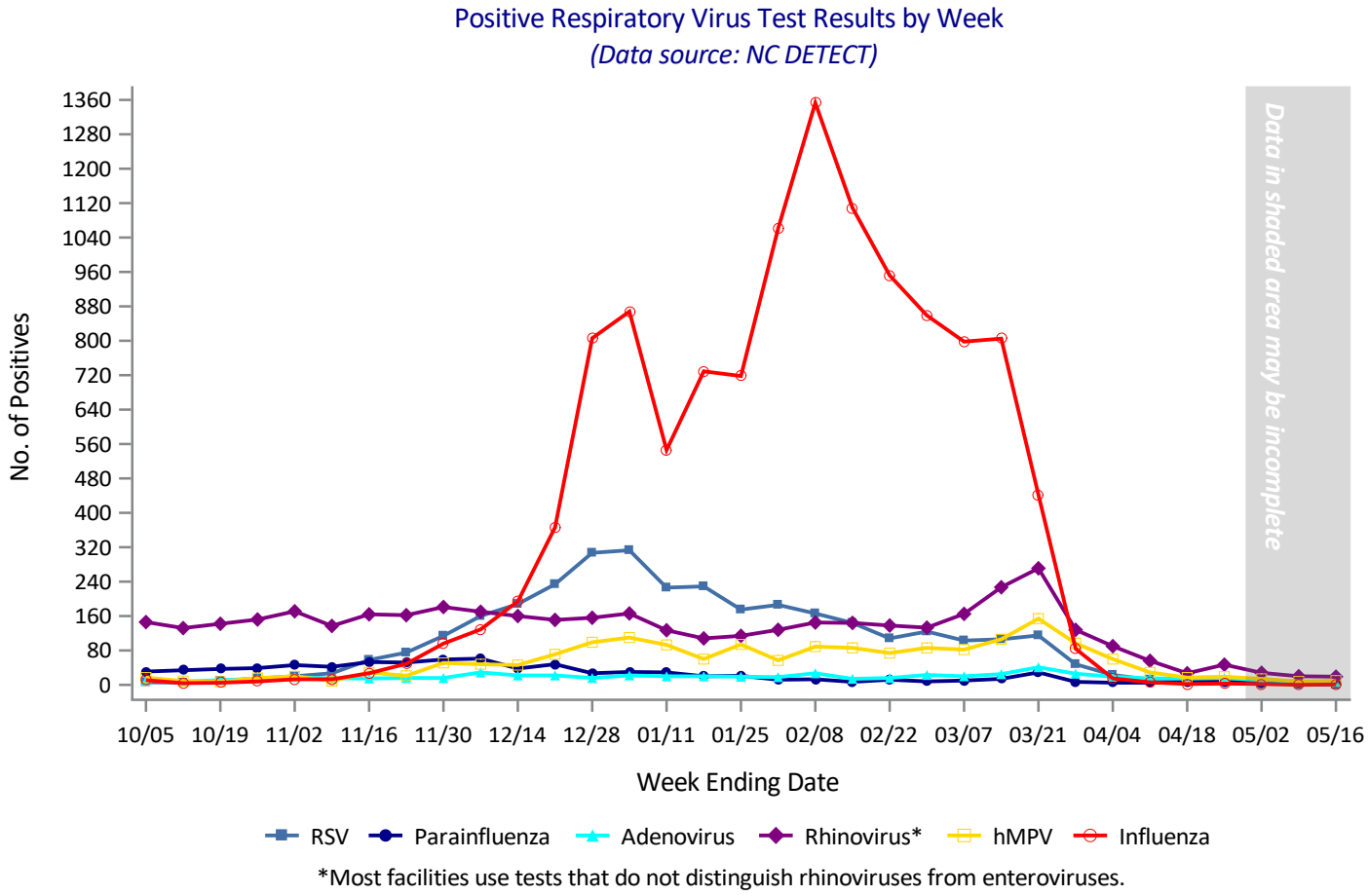
INFLUENZA-LIKE ILLNESS NETWORK 2019-2020

Week No. - End Date	No. of Sentinels Reporting	No. of ILI	No. of Patients	% ILI
#40 - 10/05/2019	158	1208	111,032	1.09
#41 - 10/12/2019	158	1159	107,595	1.08
#42 - 10/19/2019	163	1263	103,629	1.22
#43 - 10/26/2019	169	1401	109,128	1.28
#44 - 11/02/2019	171	1417	109,690	1.29
#45 - 11/09/2019	171	1557	104,502	1.49
#46 - 11/16/2019	170	1574	100,263	1.57
#47 - 11/23/2019	168	1758	104,399	1.68
#48 - 11/30/2019	163	1711	91,892	1.86
#49 - 12/07/2019	169	2298	106,247	2.16
#50 - 12/14/2019	165	2506	104,927	2.39
#51 - 12/21/2019	165	3364	104,581	3.22
#52 - 12/28/2019	163	4880	101,863	4.79
#1 - 01/04/2020	164	4907	105,630	4.65
#2 - 01/11/2020	168	4092	108,655	3.77
#3 - 01/18/2020	165	4516	111,886	4.04
#4 - 01/25/2020	169	4700	106,753	4.40
#5 - 02/01/2020	165	5961	114,149	5.22
#6 - 02/08/2020	163	7256	116,826	6.21
#7 - 02/15/2020	166	6002	112,198	5.35
#8 - 02/22/2020	163	5045	105,774	4.77
#9 - 02/29/2020	162	4445	108,121	4.11
#10 - 03/07/2020	164	4712	109,113	4.32
#11 - 03/14/2020	157	5102	106,300	4.80
#12 - 03/21/2020	156	4353	84,683	5.14
#13 - 03/28/2020	152	2271	65,143	3.49
#14 - 04/04/2020	149	1229	55,913	2.20
#15 - 04/11/2020	150	887	54,327	1.63
#16 - 04/18/2020	144	698	53,673	1.30
#17 - 04/25/2020	144	718	57,046	1.26
#18 - 05/02/2020	142	554	56,806	0.98
#19 - 05/09/2020	143	606	63,243	0.96
#20 - 05/16/2020	139	618	63,477	0.97

PHE RESPIRATORY VIRAL PATHOGEN SURVEILLANCE

Positive test results for select respiratory viruses are reported on a weekly basis by Public Health Epidemiologists (PHEs) located in seven of the largest hospital networks across North Carolina.

These data provide a useful indication of other respiratory viruses that are circulating and possibly contributing to ILI in the state. Coronavirus results are not included in this data. The total number of tests performed is not available from all hospital networks, so the overall proportion testing positive cannot be calculated. Testing protocols and practices differ among hospitals. These numbers reflect test results from participating hospitals only and might not be reflective of the entire state.

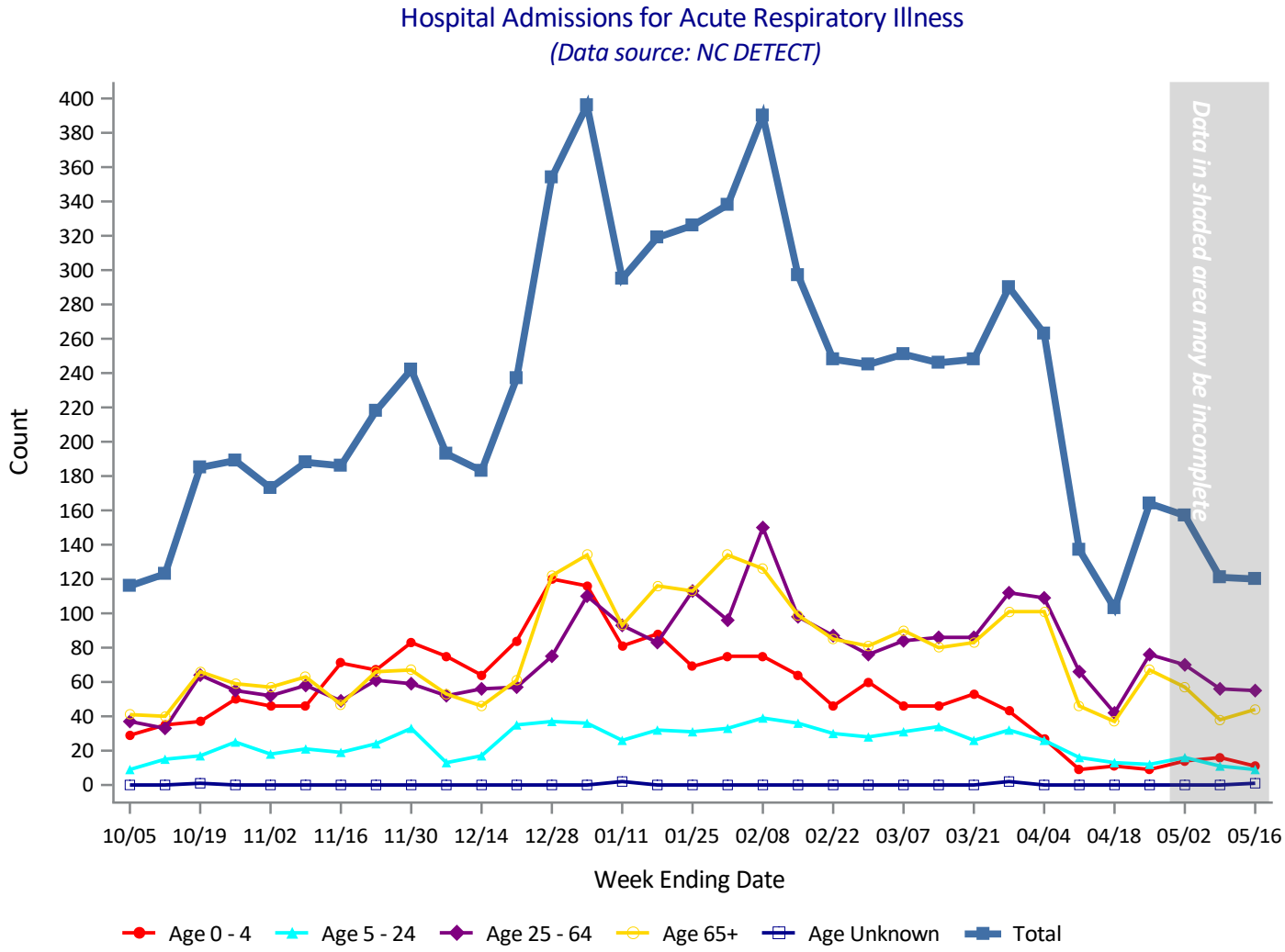


- Rhinovirus* was the most frequently identified respiratory viral pathogen during week ending 05/16/2020 followed by hMPV.

PHE ACUTE RESPIRATORY ADMISSIONS SURVEILLANCE

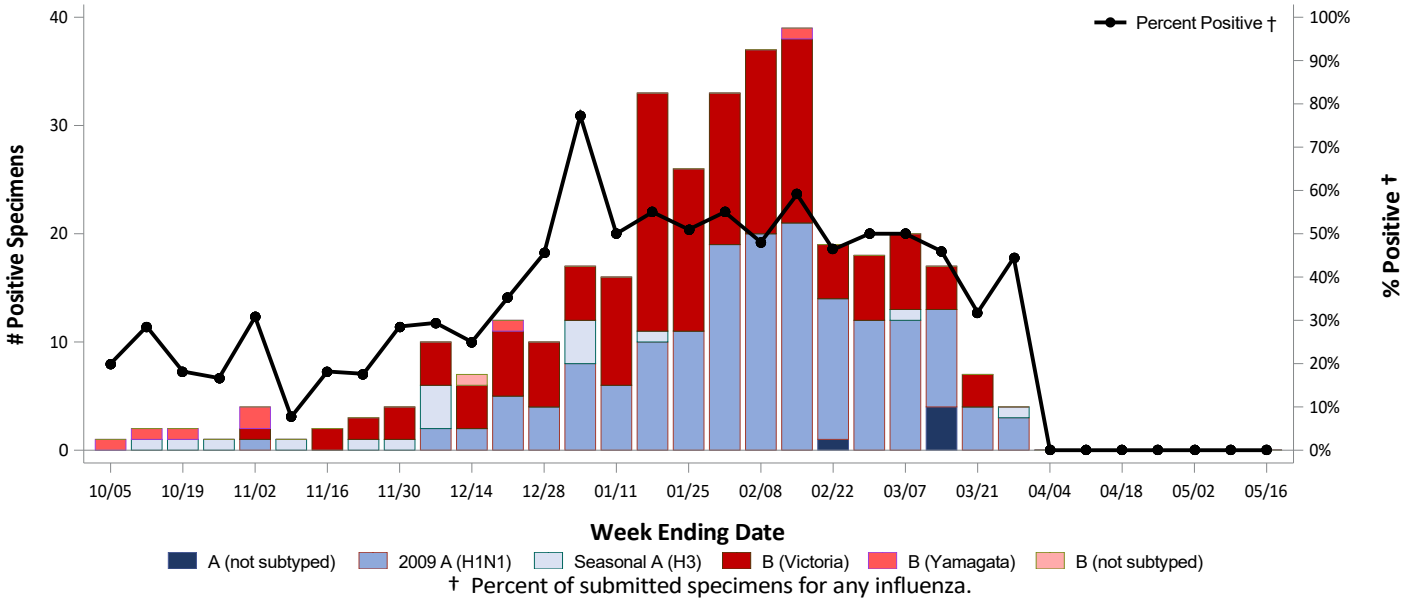
The number of patients admitted to the hospital with fever plus respiratory symptoms in the absence of a known cause other than influenza is reported on a weekly basis by Public Health Epidemiologists (PHEs) located in seven of the largest hospital networks across North Carolina.

In conjunction with other surveillance information, these data help us monitor for changes in severity of respiratory illness. Please note that these reports are not limited to patients with laboratory-confirmed influenza. These reports do not include patients with laboratory confirmed COVID-19 or other known non-influenza respiratory infections. Also, these numbers reflect admissions to participating hospitals only and are not reflective of the entire state.



- Acute respiratory admissions decreased during week ending 05/16/2020
- The highest number of acute respiratory admissions during week ending 05/16/2020 was for patients Age 25 - 64 followed by Age 65+.

Influenza Positive Tests Reported by the NC State Laboratory of Public Health (SLPH)



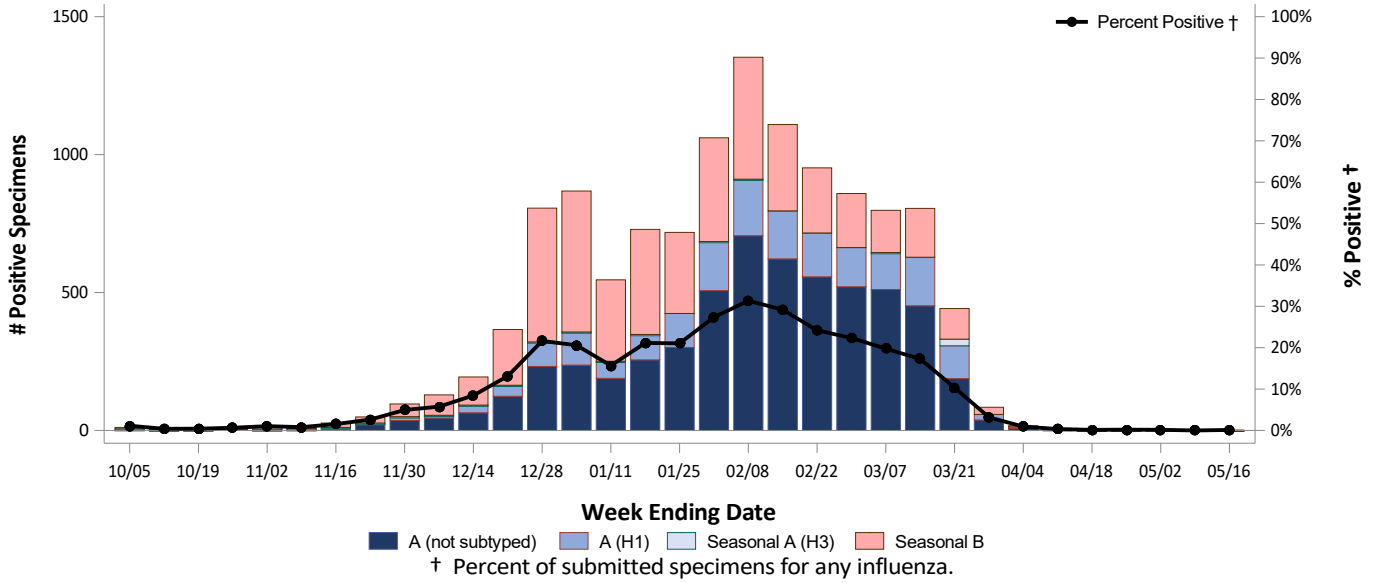
† Percent of submitted specimens for any influenza.

Influenza Virus Isolate Results for 2019–2020 Season*

Virus Type	# Positive from SLPH 05/10/20-05/16/20	Total Positive for SLPH (09/29/19 - 05/16/20)	# Positive from PHE 05/10/20-05/16/20	Total Positive for PHE (09/29/19 - 05/16/20)
A (unknown)	0	5	0	5640
2009 A(H1N1)	0	162	0	1891
A(H3)	0	17	0	58
B (unknown)	0	1	1	4487
B (Victoria)	0	153	NA	NA
B (Yamagata)	0	7	NA	NA
Total	**0**	**345**	**1**	**12076**

*2019-2020 influenza season began September 29, 2019 NOTE: PHE facilities cannot differentiate Flu B. State Lab of Public Health data may not be updated weekly due to the COVID-19 response.

Influenza Positive Tests Reported by PHE Facilities

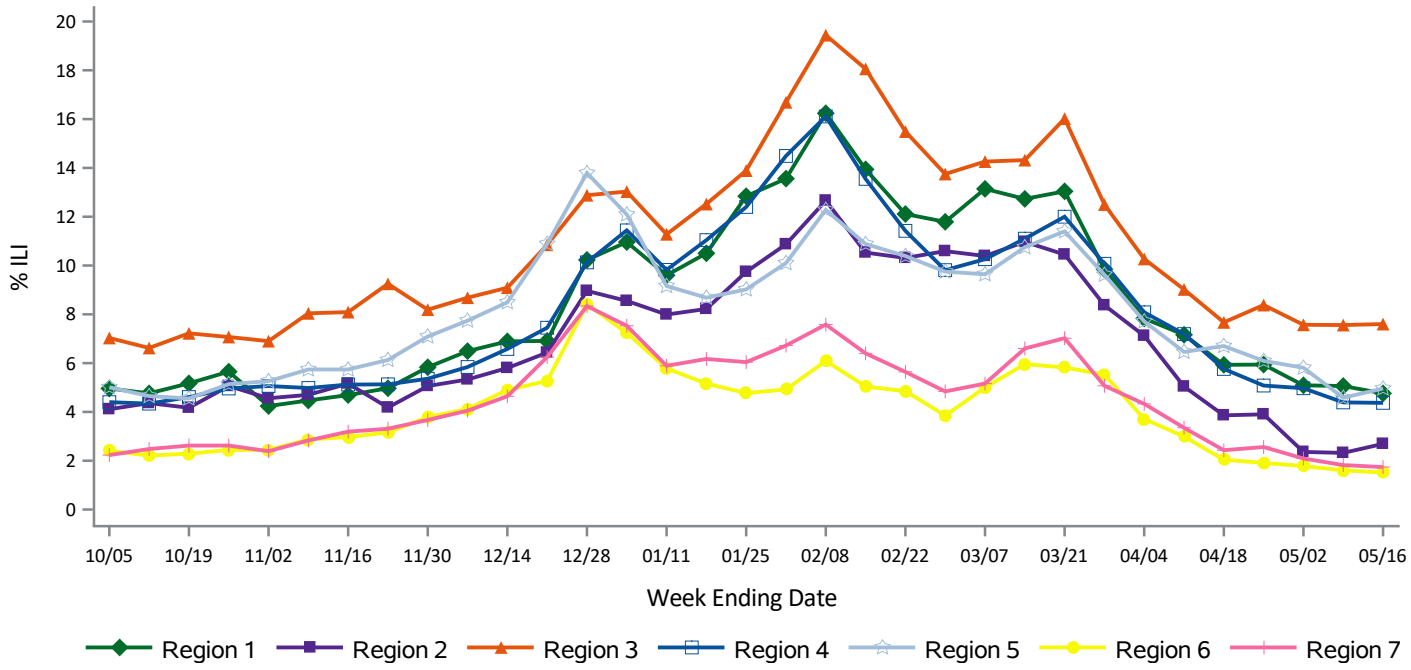


† Percent of submitted specimens for any influenza.

FLU SURVEILLANCE BY REGIONS

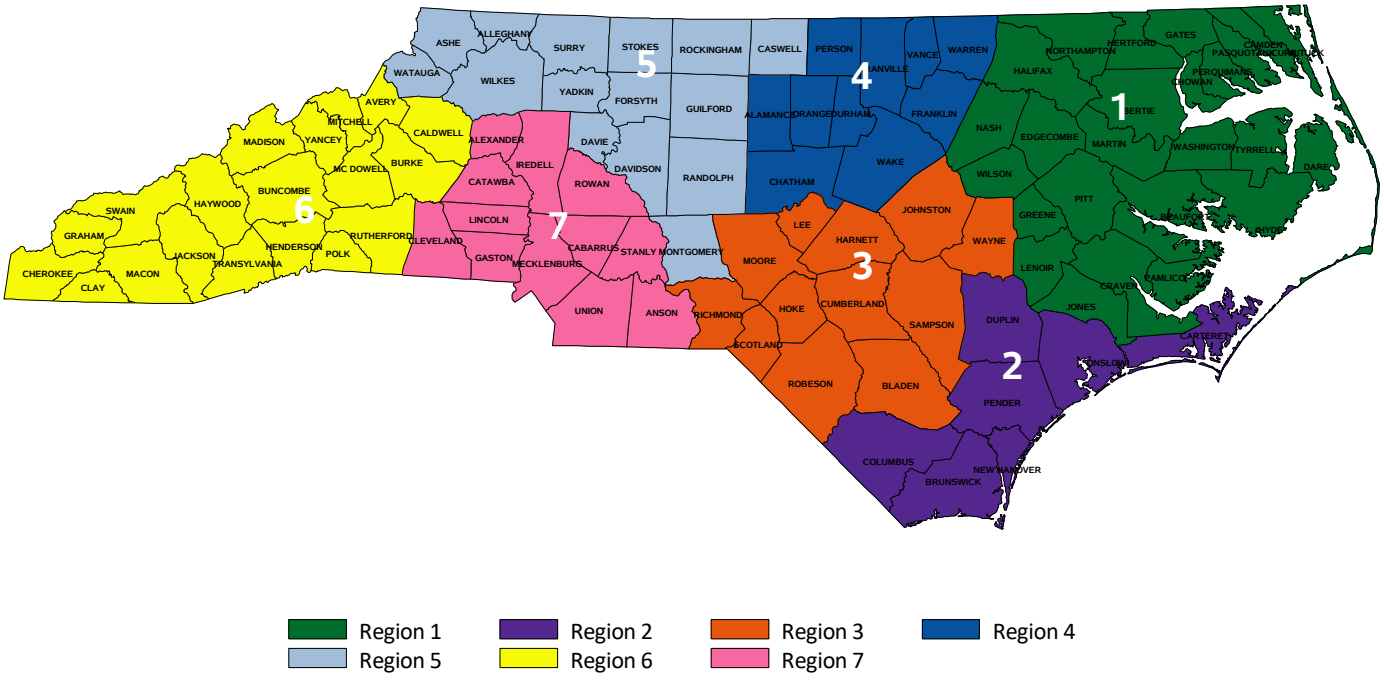
Percent of Total Emergency Department Vists with ILI

(Data Source: NC DETECT, 2019-2020)



*This graph begins with data starting week ending October 5, 2019 for the 2019-2020 influenza season.

Flu Surveillance Regions



NC INFLUENZA-ASSOCIATED DEATHS

An influenza-associated death is defined for surveillance purposes as a death (adult or pediatric) resulting from a clinically compatible illness that was confirmed to be influenza by an appropriate laboratory or rapid diagnostic test with no period of complete recovery between the illness and death.

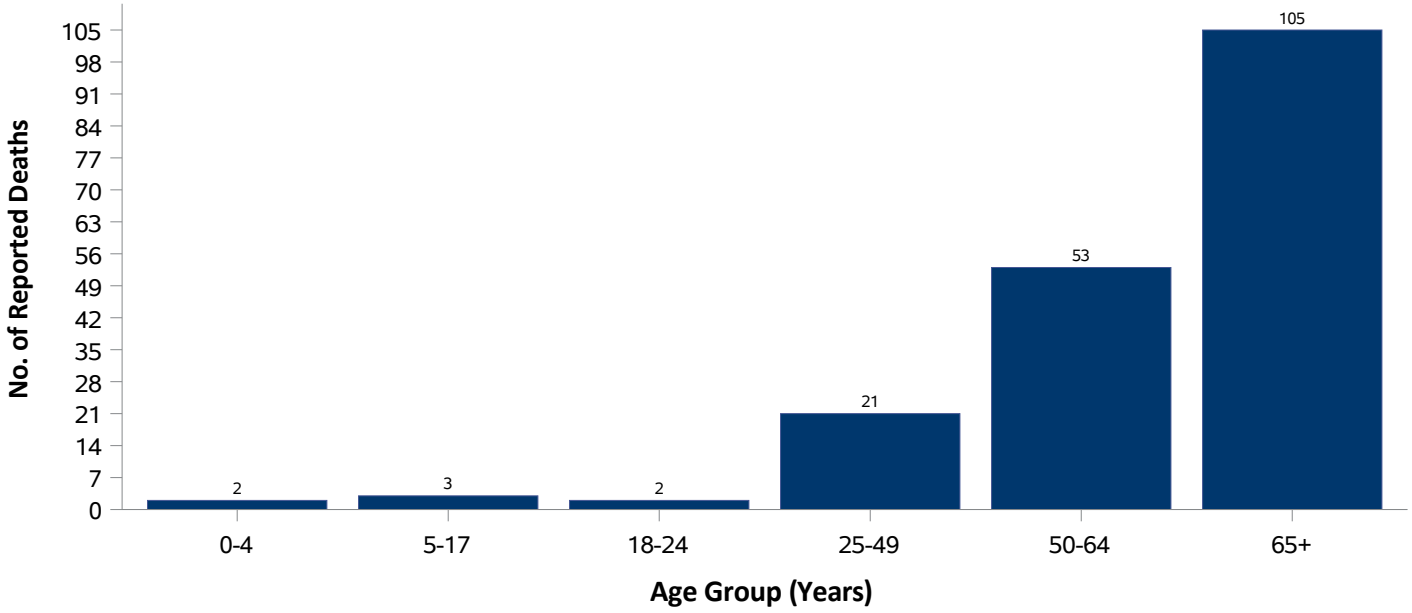
NC Influenza-Associated Deaths*

Influenza-Associated Deaths This Week (05/10/2020 – 05/16/2020)	Total Influenza-Associated Deaths This Season (starting 09/29/2019)
0	186

*These numbers are based on reports submitted by providers to the NC Division of Public Health. Data are preliminary and subject to change as updated information becomes available. Deaths that occurred on or after 09/29/2019 will be reflected in this report for the 2019-2020 season.

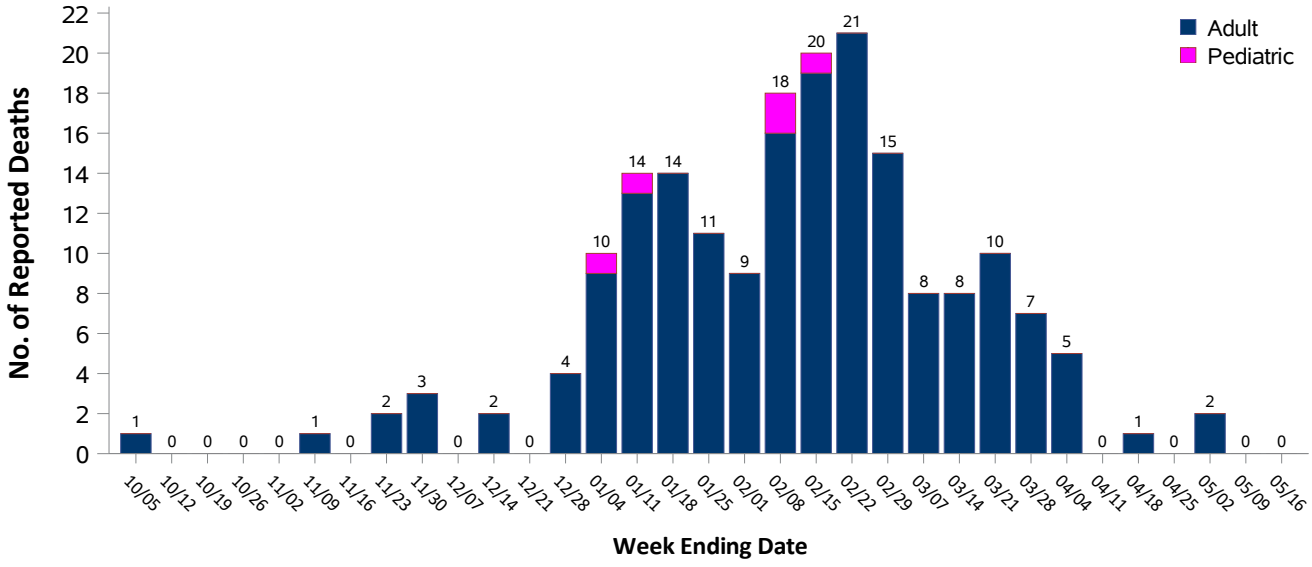
Laboratory Confirmed Influenza-Associated Deaths

Reported by Age Group



Laboratory Confirmed Influenza-Associated Deaths

Reported by Week of Death



Non-Hospital Participants In North Carolina's Influenza Sentinel Surveillance Program Report Data To CDC

LOCAL HEALTH DEPARTMENT/DISTRICT OFFICES - 23

Alamance County Health Department
Cabarrus Health Alliance
Caldwell County Health Department
Craven County Health Department
Duplin County Health Department
Franklin County Health Department
Henderson County Health Department
Johnston County Health Department
Lee Primary Care
Montgomery County Health Department
Northampton County Health Department
Orange County Health Department
Pender County Health Department
Pitt County Public Health Center
Richmond County Health Department
Rockingham County Health Department
Rowan County Health Department
Stanly County Health Department
Stokes Family Health Center
Surry County Health and Nutrition Center
Union County Health Department
Wake County Health Department, Children's Clinic
Wilkes County Health Department

PRIVATE PRACTITIONERS - 24

Bakersville Community Medical Center
Blue Cross and Blue Shield of N.C.
Blue Ridge Community Health Services
Butner-Creedmoor Family Medicine
Catawba Family Care
Celo Health Center
Colerain Primary Care
Creswell Primary Care
Dilworth Pediatrics
Duke Primary Care Oxford
ECU Brody School of Medicine – Department of Pediatrics
Family Care Center
Go Health Forsyth
Group Family Medicine - MAHEC
Haywood Pediatric and Adolescent Medicine Group, PA
Hot Springs Health Program
MEDAC Health Services at Shipyard Blvd.
MEDAC Health Services at Porter's Neck
MEDAC Health Services at Military Cutoff
Murfreesboro Primary Care
Roanoke Chowan Community Health Center
SAS Institute Health Care Center
Sisters of Mercy Urgent Care, South
Spruce Pine Health Center

COLLEGES AND UNIVERSITIES STUDENT HEALTH PROGRAMS - 15

Appalachian State University Student Health Services
Davidson College Student Health Center
ECU Student Health Services
Elizabeth City State University Student Health Services
Elon University R. N. Ellington Health and Counseling Center
Fayetteville State University
Meredith College Student Health Center
NC Agricultural &Technical State University Student Health Services
NC State University Student Health Services
UNC-Chapel Hill Student Health Services
UNC-Charlotte Student Health Services
UNC-Greensboro Student Health Services
UNC-Pembroke Student Health Services
Wake Forest University Student Health Services
Winston-Salem State University Student Health Services

ILI Network Provider Locations, NC 2019-2020