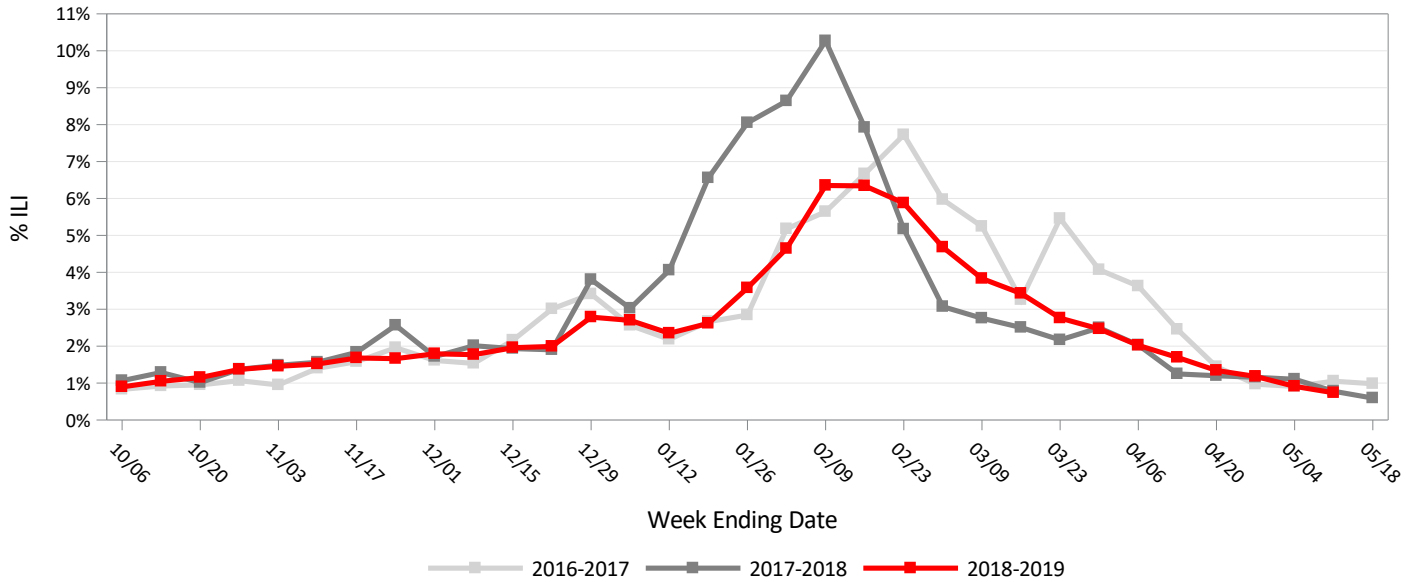


Influenza Surveillance, NC 2016-2019  
(Influenza-Like Illness in ILINET)



\*For more information about national data visit <https://www.cdc.gov/flu/weekly/index.htm>.  
ILINet has now expanded to include emergency department data that were previously reported separately.

<b>Statewide Updates</b>	<p>Influenza-like illness (ILI) decreased for week ending May 11, 2019.</p> <p>The geographic spread of flu was SPORADIC for this week.</p> <p>Of the 5 specimens submitted to the State Laboratory of Public Health (SLPH) for viral testing this week (ending 5/11/2019) only one was positive for influenza A(H3) virus.</p> <p>Hospital-based Public Health Epidemiologists (PHEs) reported 10 positive influenza virus results out of 727 samples tested during week 19 (ending 5/11/2019); 3 were positive for influenza A(H3), 3 were positive for influenza B, 2 were positive for influenza A(unknown), and 2 were positive for influenza A(H1) virus.</p>
<b>Regional Updates</b>	<p>The proportion of visits due to ILI in Region 4 (Southeastern US) was at 1.42% for week 18 (ending 5/4/2019). The baseline for the region is 2.2%.</p>
<b>National Updates</b>	<p>The proportion of outpatient visits due to ILI nationally was at 1.58% for week 18 (ending 5/4/2019). The national baseline for ILI is 2.2%.</p>
<b>International Updates</b>	<p>Worldwide seasonal influenza subtype A viruses accounted for a majority of detections. For more country specific details please visit: <a href="http://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/">http://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/</a></p>

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

# INFLUENZA-LIKE ILLNESSES

## By Reporting Sites, 2018-2019

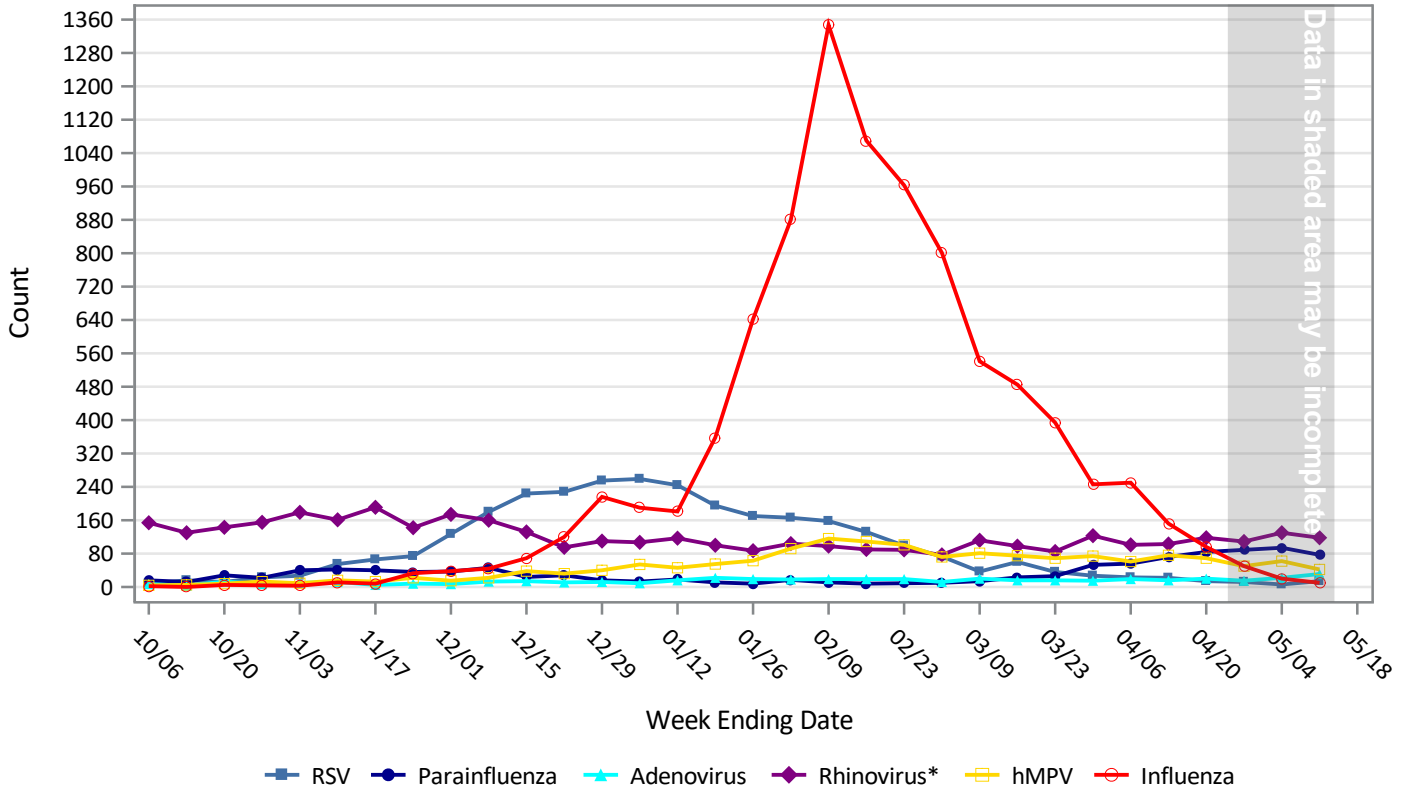
Week # - Ending	(Sentinels Reporting)	# ILI	# Patients	% ILI
#40 - 10/06/2018	157	974	108,547	0.90
#41 - 10/13/2018	160	1139	108,746	1.05
#42 - 10/20/2018	161	1261	109,669	1.15
#43 - 10/27/2018	161	1425	104,003	1.37
#44 - 11/03/2018	162	1548	106,418	1.45
#45 - 11/10/2018	161	1428	94,176	1.52
#46 - 11/17/2018	162	1389	82,670	1.68
#47 - 11/24/2018	159	1263	75,983	1.66
#48 - 12/01/2018	159	1843	102,756	1.79
#49 - 12/08/2018	158	1793	101,347	1.77
#50 - 12/15/2018	155	1779	90,867	1.96
#51 - 12/22/2018	152	1928	96,749	1.99
#52 - 12/29/2018	155	2573	92,349	2.79
#1 - 01/05/2019	157	2776	102,884	2.70
#2 - 01/12/2019	155	2410	102,604	2.35
#3 - 01/19/2019	159	2698	103,103	2.62
#4 - 01/26/2019	158	3708	103,676	3.58
#5 - 02/02/2019	156	5024	108,229	4.64
#6 - 02/09/2019	157	7738	121,837	6.35
#7 - 02/16/2019	159	7235	114,091	6.34
#8 - 02/23/2019	158	6484	110,373	5.87
#9 - 03/02/2019	158	5017	107,191	4.68
#10 - 03/09/2019	158	3925	102,469	3.83
#11 - 03/16/2019	156	3732	108,878	3.43
#12 - 03/23/2019	158	3045	110,333	2.76
#13 - 03/30/2019	156	2731	110,697	2.47
#14 - 04/06/2019	155	2167	107,181	2.02
#15 - 04/13/2019	155	1866	110,070	1.70
#16 - 04/20/2019	149	1359	101,292	1.34
#17 - 04/27/2019	147	1217	103,099	1.18
#18 - 05/04/2019	145	944	103,589	0.91
#19 - 05/11/2019	140	712	96,692	0.74

## PHE RESPIRATORY VIRAL PATHOGEN SURVEILLANCE

Positive test results for selected respiratory viruses are reported on a weekly basis by Public Health Epidemiologists (PHEs) located in seven of the largest hospital networks across North Carolina. The graph below shows the number of positive tests for respiratory syncytial virus (RSV), parainfluenza, adenovirus, rhinovirus, and human metapneumovirus (hMPV) by week.

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

**PHE Surveillance: Positive Respiratory Virus Test Results by Week**  
(Data source: NC DETECT)



\*Most facilities use tests that do not distinguish rhinoviruses from enteroviruses.

- Rhinovirus\* was the most frequently identified respiratory viral pathogen during week 19 (ending 05/11/2019) followed by Parainfluenza.

### Influenza Virus Isolates Identified by PHE Facilities for 2018–2019 Season\*

Virus Type	# New positive results (05/05/2019- 05/11/2019)	# Cumulative positive results (09/30/2018-05/18/2019)
A(H1)	2	804
A/H3	3	1063
A (subtype unknown)	2	7191
B	3	176
<b>Total</b>	<b>10</b>	<b>9234</b>

\*2018-2019 influenza season began September 30, 2018.  
NOTE: This table includes isolates tested as of 09/30/2018.

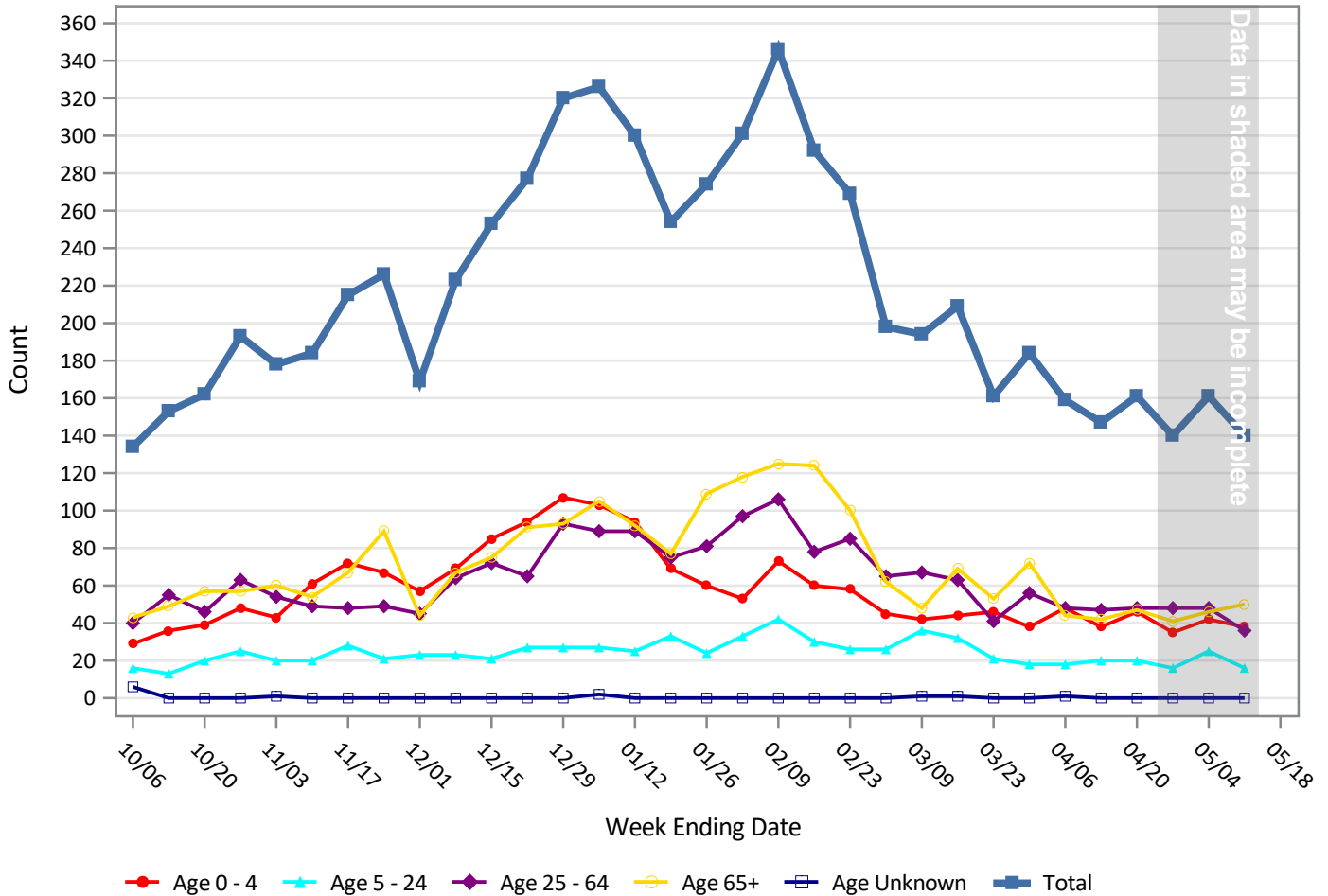
## PHE ACUTE RESPIRATORY ADMISSIONS SURVEILLANCE

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. The graph below shows the number of acute respiratory illness admissions to participating hospitals by age group.

In conjunction with other surveillance information, these data help us monitor for changes in severity of respiratory illness during periods when influenza is circulating. Please note that these reports are not limited to patients with laboratory-confirmed influenza infection. Also, these numbers reflect admissions to participating hospitals only and are not reflective of the entire state.

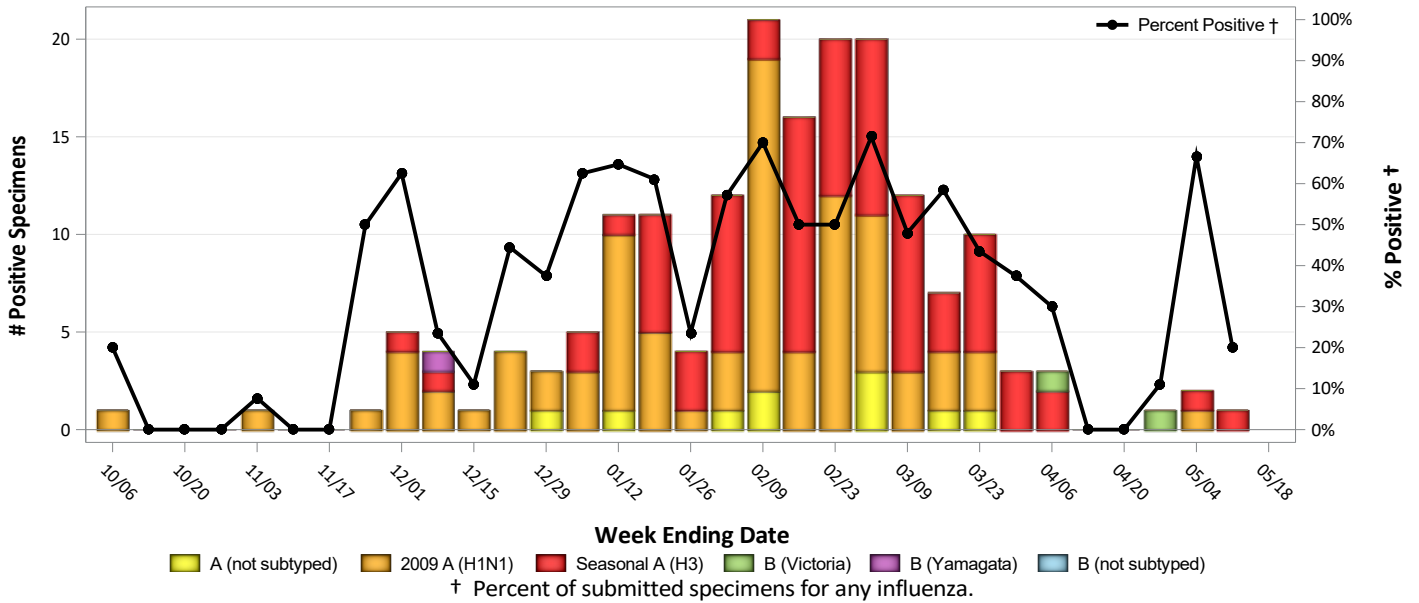
**PHE Surveillance: Hospital Admissions for Acute Respiratory Illness by Week**

*Data source: NC DETECT*



- Acute respiratory admissions decreased during week 19 (ending 05/11/2019).
- The highest number of acute respiratory admissions during week 19 was for patients Age 65+ followed by Age 0 - 4.

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

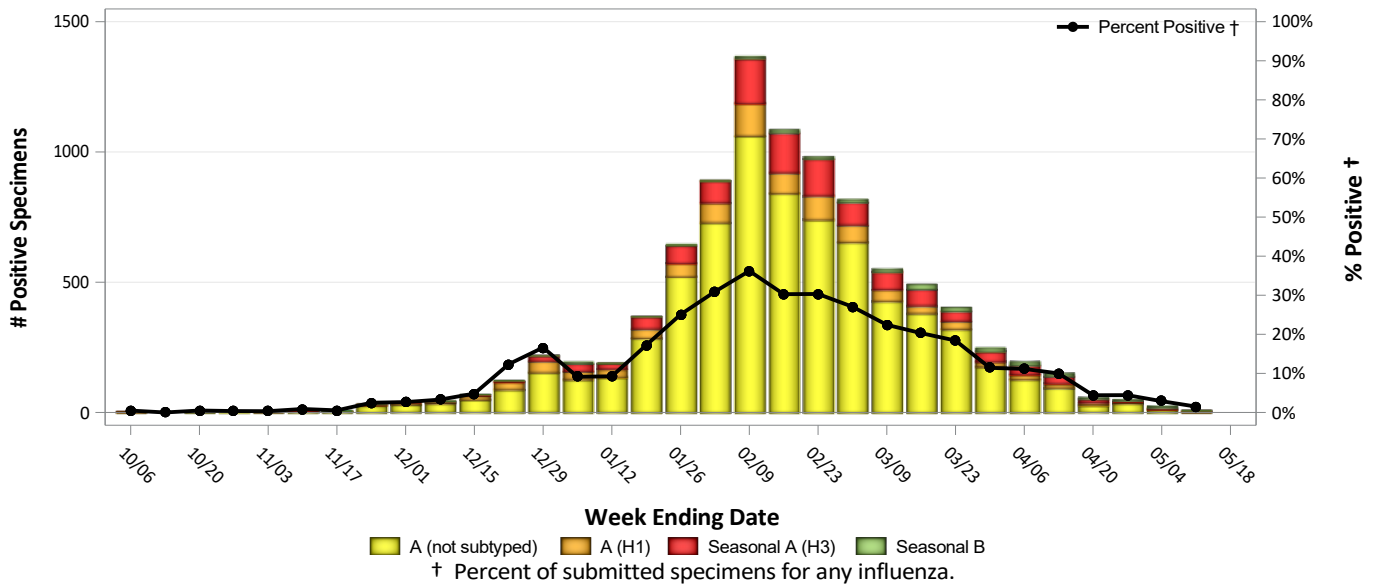


### Influenza Virus Isolates From In-State Patients Identified by the State Laboratory Of Public Health 2018–2019 Season\*

Virus Type	# New Positive Results (05/05/19- 05/11/19)	# Cumulative Positive Results (09/30/18 - 05/18/19)
A (unknown)	0	10
2009 A(H1N1)	0	88
A(H3)	1	78
B (unknown)	0	0
B (Victoria)	0	2
B (Yamagata)	0	1
<b>Total</b>	<b>1</b>	<b>179</b>

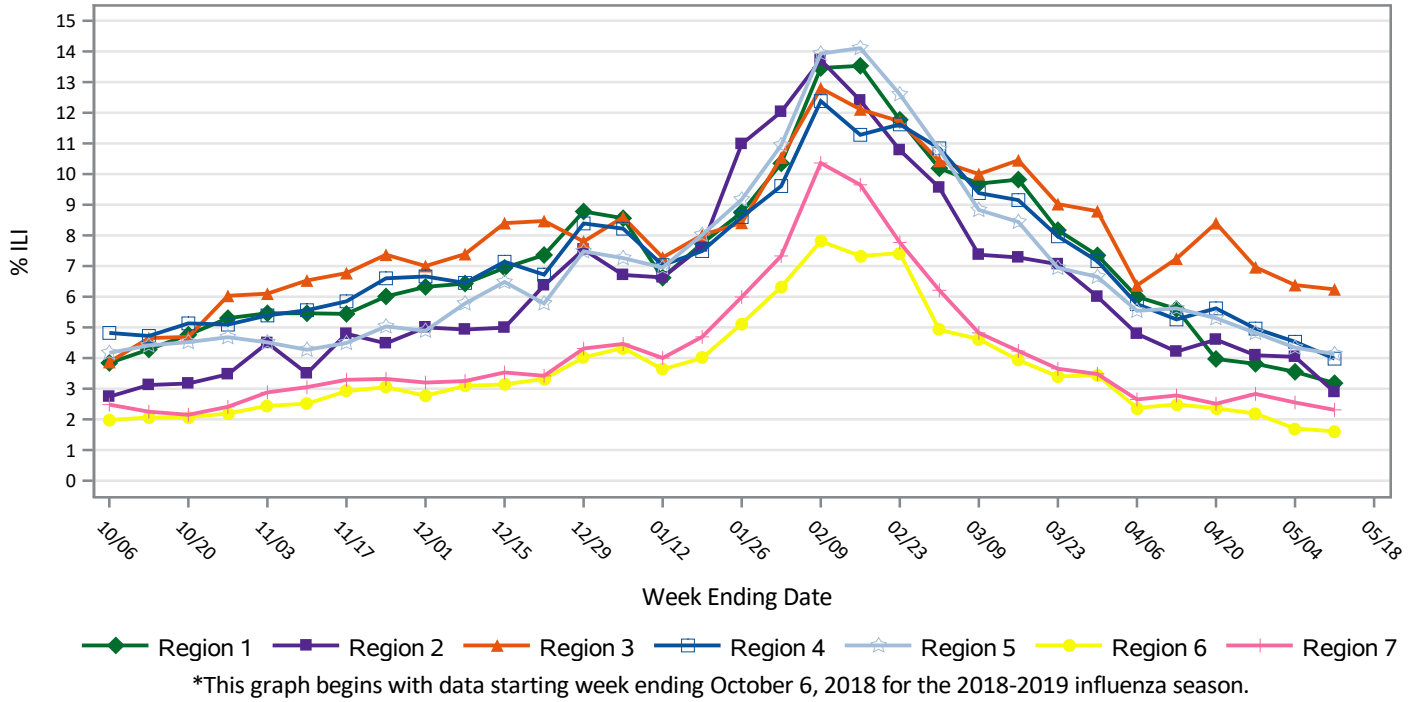
\*2018-2019 influenza season began September 30, 2018. NOTE: This table includes isolates tested as of 09/30/2018. This table does not include influenza isolates identified by other laboratories.

### Influenza Positive Tests Reported by the NC State Laboratory of Public Health (SLPH) and PHE Facilities

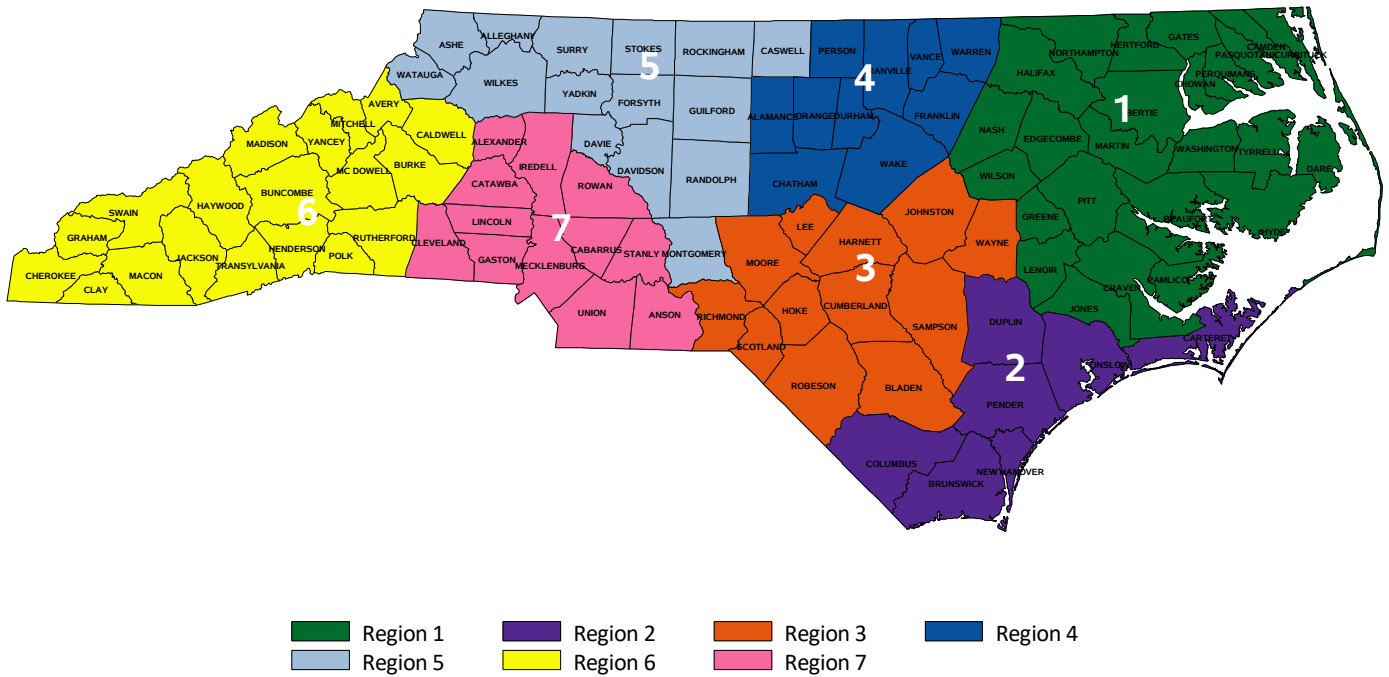


# FLU SURVEILLANCE BY REGIONS

Percentage of Total Visits by Week  
 NC DETECT ED Influenza-Like Illness (ILI), 2018-2019



## Flu Surveillance Regions



# NC INFLUENZA-ASSOCIATED DEATHS

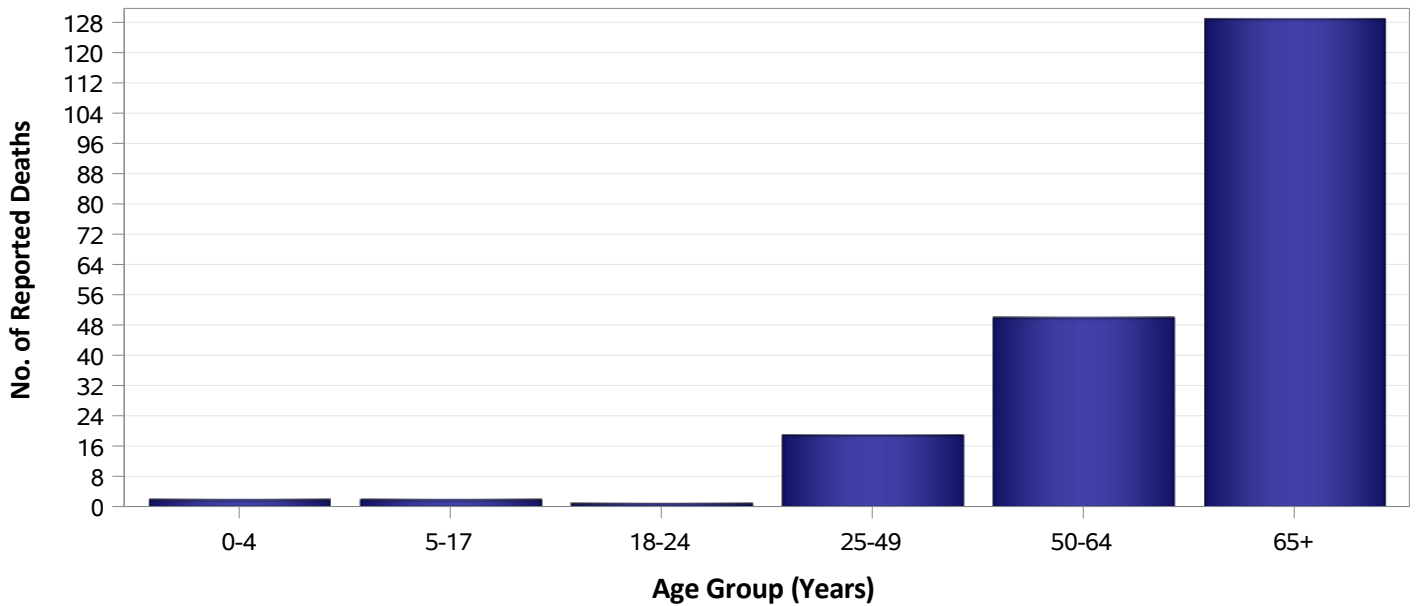
An influenza-associated death is defined for surveillance purposes as a death (adult or pediatric) resulting from a clinically compatible illness that was confirmed to be influenza by an appropriate laboratory or rapid diagnostic test with no period of complete recovery between the illness and death.

## NC Influenza-Associated Deaths\*

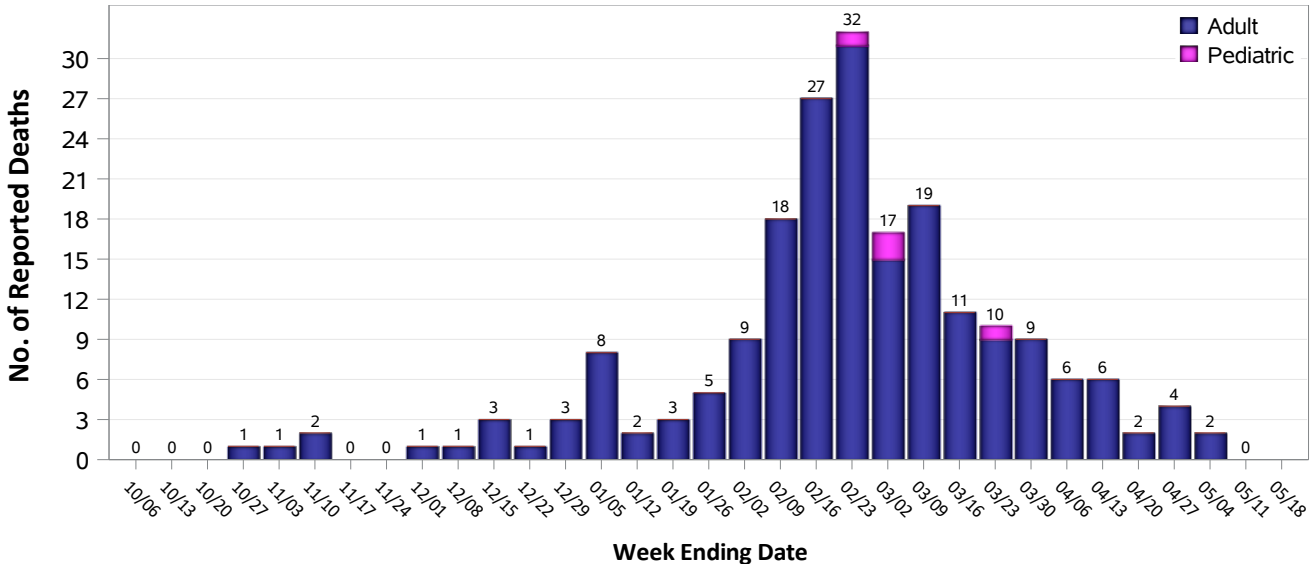
Influenza-Associated Deaths This Week (05/05/2019 – 05/11/2019)	Total Influenza-Associated Deaths This Season (starting 09/30/2018)
0	203

\*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 09/30/2018 will be reflected in this report for the 2018-2019 season.

## Laboratory Confirmed Influenza-Associated Deaths Reported in North Carolina by Age Group\*



## Laboratory Confirmed Influenza-Associated Deaths Reported in North Carolina by Week of Death\*



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

## LOCAL HEALTH DEPARTMENT/DISTRICT OFFICES - 21

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  
 Pender County Health Department  
 Pitt County Public Health Center  
 Richmond County Health Department  
 Rockingham 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  
 Coastal Childrens Clinic  
 Colerain Primary Care  
 Creswell Primary Care  
 Dilworth Pediatrics  
 ECU Brody School of Medicine – Department of Pediatrics  
 Family Care Center  
 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  
 Minute Clinic - Cary  
 Murfreesboro Primary Care  
 Oxford Family Physicians  
 PrimeCare  
 PrimeCare of Northpoint  
 Roanoke Chowan Community Health Center  
 SAS Institute Health Care Center  
 Sisters of Mercy Urgent Care, South

## 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

ILI Network Provider Locations, NC 2018-2019

