

U.S. Army Public Health Center

Army Influenza Activity Report

Week ending 18 April 2020 (week 16)

Influenza Vaccination Coverage*

As of 22 April 2020

N/A	DoD
96%	Army Active Duty
86%	Army Guard
84%	Army Reserve

*Data Source: MEDPROS, ASIMS, MRRS

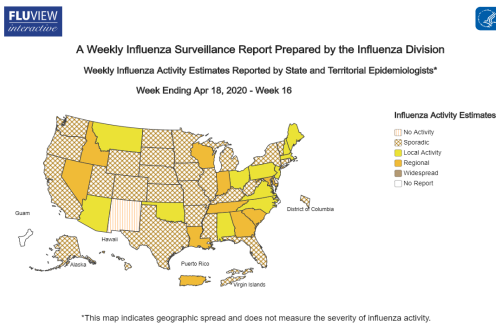
SUMMARY

During week 16, 1,013 specimens were submitted for testing, which represents a 41% decrease from week 15. Influenza A represented the majority (32%) of positive specimens submitted for testing. Regional Health Command (RHC) - Central accounted for the greatest number of positive influenza A specimens (n=4). Sixty-seven percent of positive influenza A specimens were from Active Duty (AD) Service Members (SMs). Beneficiaries younger than 18 years old comprised the majority (n=10) of total positive respiratory specimens and was followed by individuals 18 to 29 years of age (n=5). No influenza-associated hospitalizations were reported.

Results in this report should be interpreted with caution as laboratory data from multiple installations were unavailable.

GEOGRAPHIC SPREAD

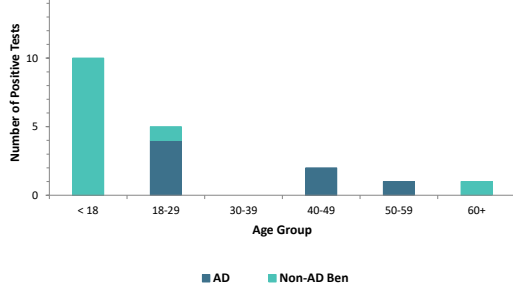
Click to enlarge image



In week 16, regional activity was reported in Puerto Rico and 9 states. Local activity was reported in 12 states. Sporadic activity was reported in the District of Columbia, the U.S. Virgin Islands and 26 states. No activity was reported in three states. Guam did not report.

DEMOGRAPHICS

Positive Respiratory Specimen Results from Army MTFs by Age Group and Beneficiary Status, Week 16

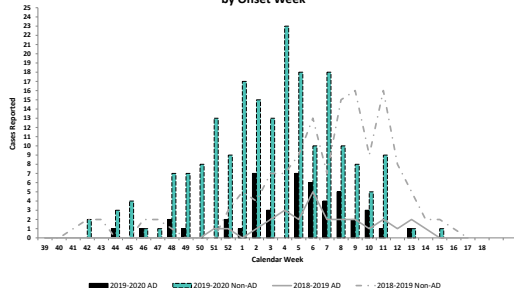


AD: In week 16, 7 positive respiratory specimens from AD SMs were submitted. The majority of positive specimens were among individuals 18 to 29 years of age (n=4, 57%).

Non-AD: The majority of positive respiratory specimens (n=10) among non-Active Duty beneficiaries were collected from individuals younger than 18 years of age (83%).

INFLUENZA-ASSOCIATED HOSPITALIZATIONS

Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Week



So far this season, 250 hospitalizations have been reported to the DRSi; this is 50% more than the 167 hospitalizations reported last season during the same period. As of 23 April, there were no influenza-associated hospitalizations with onset dates in week 16 reported to the DRSi. During week 16 of the 2018-2019 influenza season, one hospitalization was reported.

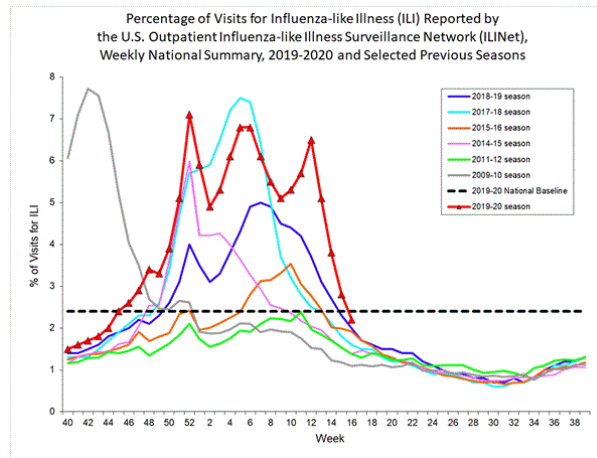
*DRSi does not capture cases older than 65 years old for influenza-associated hospitalizations.

Additional Resources: [APHC Influenza Reports](#), [Centers for Disease Control](#), [Disease Reporting System internet](#), [ESSENCE](#)

Key: ILI-Influenza-Like Illness; DRSi- Disease Reporting System Internet; ADV-Adenovirus; RSV-Respiratory Syncytial Virus; SM-Service Member; MEDPROS- Medical Protection System; ASIMS- Aeromedical Services Information Management System; MRRS- Medical Readiness Reporting System

Questions?
Email [APHC DEP](#)
410-436-7605

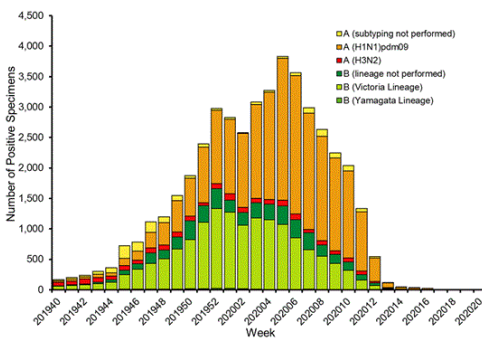
ILI ACTIVITY - UNITED STATES



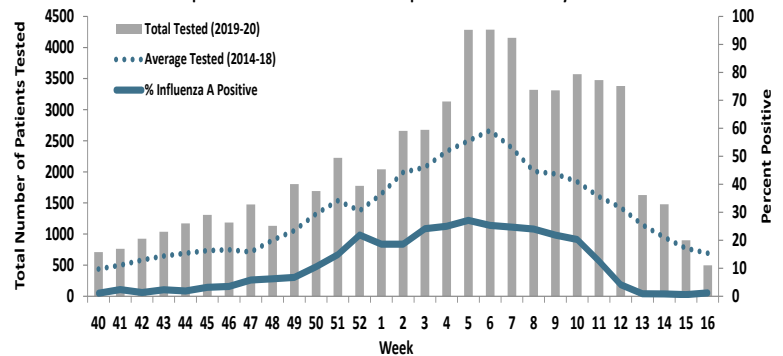
Nationwide in week 16, 2.2% of patient visits reported through the U.S. Outpatient Influenza-like Illness Surveillance Network were due to influenza-like illness. This is below the national baseline of 2.4%. Regionally, the percentage of outpatient visits for ILI ranged from 1.1% to 5.4%.

LABORATORY RESPIRATORY SPECIMEN TESTING

Influenza Positive Tests Reported to CDC by U.S. Public Health Laboratories, National Summary, 2019-2020 Season



Proportion of Positive Influenza A Specimens for U.S. Army 2019-2020



Nationwide, 346 specimens were submitted to CDC in week 16, of which 6% (n=21) were positive. Influenza A accounted for 86% (n=18) of the total positive specimens submitted to the CDC in week 16, while influenza B accounted for 14% (n=3). In the Army population, 1.2% of 496 specimens tested for influenza A were positive.

		Week 13	Week 14	Week 15	Week 16	Season Total
Test Types Among Positive Influenza A Specimens	RAT	8	12	5	5	6242
	Culture	0	0	0	0	279
	PCR	6	0	0	1	3273
Army MTF Laboratory Results, 2019-20	Influenza A	14	12	5	6	9794
	Influenza B	20	4	2	4	6145
	Adenovirus	14	6	1	5	351
	Enterovirus	0	0	0	0	7
	Parainfluenza	11	1	1	1	270
	RSV	11	4	5	3	1754
	Negative	5038	3050	1705	994	105096
Total	5108	3077	1719	1013	123417	

In week 16, 1,013 respiratory specimens were tested, and 1.9% (n=19) were positive for any type of respiratory illness. Influenza A accounted for the majority of positive results in week 16 (32%, n=6); adenovirus accounted for 26% (n=5); influenza B accounted for 21% (n=4); RSV accounted for 16% (n=3); parainfluenza accounted for 5% (n=1).

Rapid antigen tests (RATs) represented 83% of positive influenza A tests, while PCR tests represented 17%.

Locations providing week 16 laboratory data as of 23 April 2020: Ft. Belvoir, Ft. Bliss, Ft. Campbell, Ft. Carson, Ft. Eustis, Ft. Huachuca, Ft. Irwin, Ft. Jackson, Ft. Leavenworth, Ft. Leonard Wood, Ft. Meade, Ft. Polk, Ft. Riley, Ft. Rucker, Ft. Sam Houston, Ft. Stewart, Ft. Wainwright, Redstone Arsenal, Tripler Army Medical Center, Walter Reed National Military Medical Center, and the US Military Academy.

*NOTE: Madigan AMC data is also received weekly, but cannot be included at this time due to access limitations from MHS Genesis.

LABORATORY RESPIRATORY SPECIMEN TESTING

Region	Installation	Influenza A			Influenza B			Adenovirus		
		No. Tested	% Positive	Baseline % Positive	No. Tested	% Positive	Baseline % Positive	No. Tested	% Positive	Baseline % Positive
RHCA	Ft. Campbell	16	0	11.1	17	5.9	2.2			100
	Ft. Jackson	6	0	0	6	0	0			
	Ft. Meade	3	0	0						
	Ft. Rucker	6	0	0	6	0	0			
	Ft. Stewart	28	3.6	21.7	28	3.6	2.9			
	Redstone Arsenal	4	0	0	4	0	0			
	U.S. Military Academy	1	0	0	1	0	0			100
RHCC	Ft. Bliss	57	0	6.6	1	100	0			24
	Ft. Carson	94	4.3	4.7			100			
	Ft. Huachuca	3	0	14.3	3	0	0			
	Ft. Irwin	6	0	33.3	5	0	0			
	Ft. Leavenworth	4	0	27.3	4	0	0			
	Ft. Leonard Wood	11	0	26.5	9	0	0			
	Ft. Polk	12	0	4.8						
	Ft. Riley	29	0	0	29	0	0			
RHCP	Ft. Wainwright	21	0	5.8	20	0	13.5			
	Tripler Army Medical Center	38	0	10.3	38	0	6.3	3	0	4.3
Region	Installation	Enterovirus			Parainfluenza			RSV		
		No. Tested	% Positive	Baseline % Pos.	No. Tested	% Positive	Baseline % Pos.	No. Tested	% Positive	Baseline % Pos.
RHCA	Ft. Stewart							2	0	33.3
RHCC	Ft. Bliss							2	0	6.1
	Ft. Carson							1	0	3.6
	Ft. Leonard Wood							1	0	0
	Ft. Polk							7	14.3	0
	Ft. Riley							1	0	0
RHCP	Ft. Wainwright							21	0	0
	Tripler Army Medical Center	3	0	0	3	0	2.2			100

No.: Number of specimens tested during MMWR week 16 2020.

% Pos.: Percentage of positive specimens reported during MMWR week 16 2020.

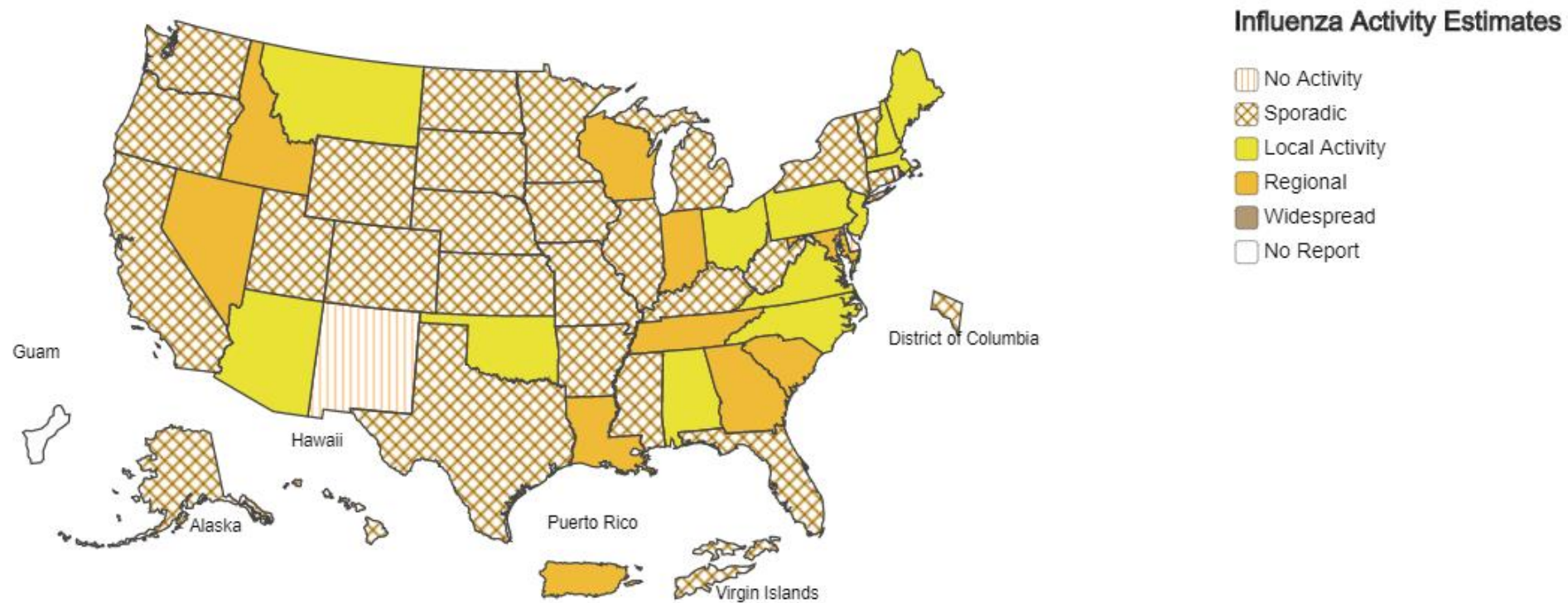
Baseline % Pos.: Percentage of positive specimens reported in MMWR week 16 during influenza seasons from September 2012 - May 2019.

Missing values indicate that specimens were not tested for the disease during the week of interest.

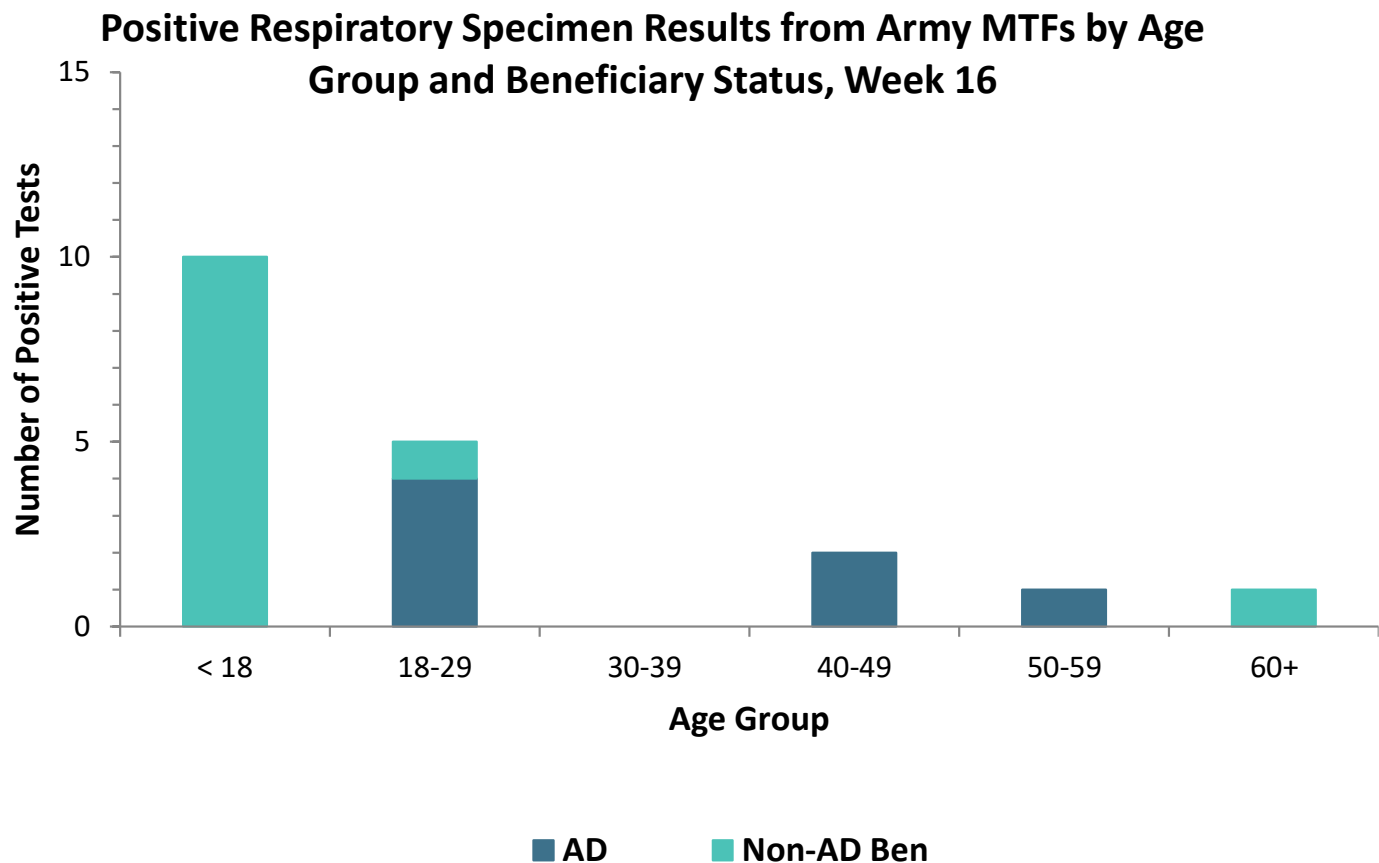
A Weekly Influenza Surveillance Report Prepared by the Influenza Division

Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending Apr 18, 2020 - Week 16



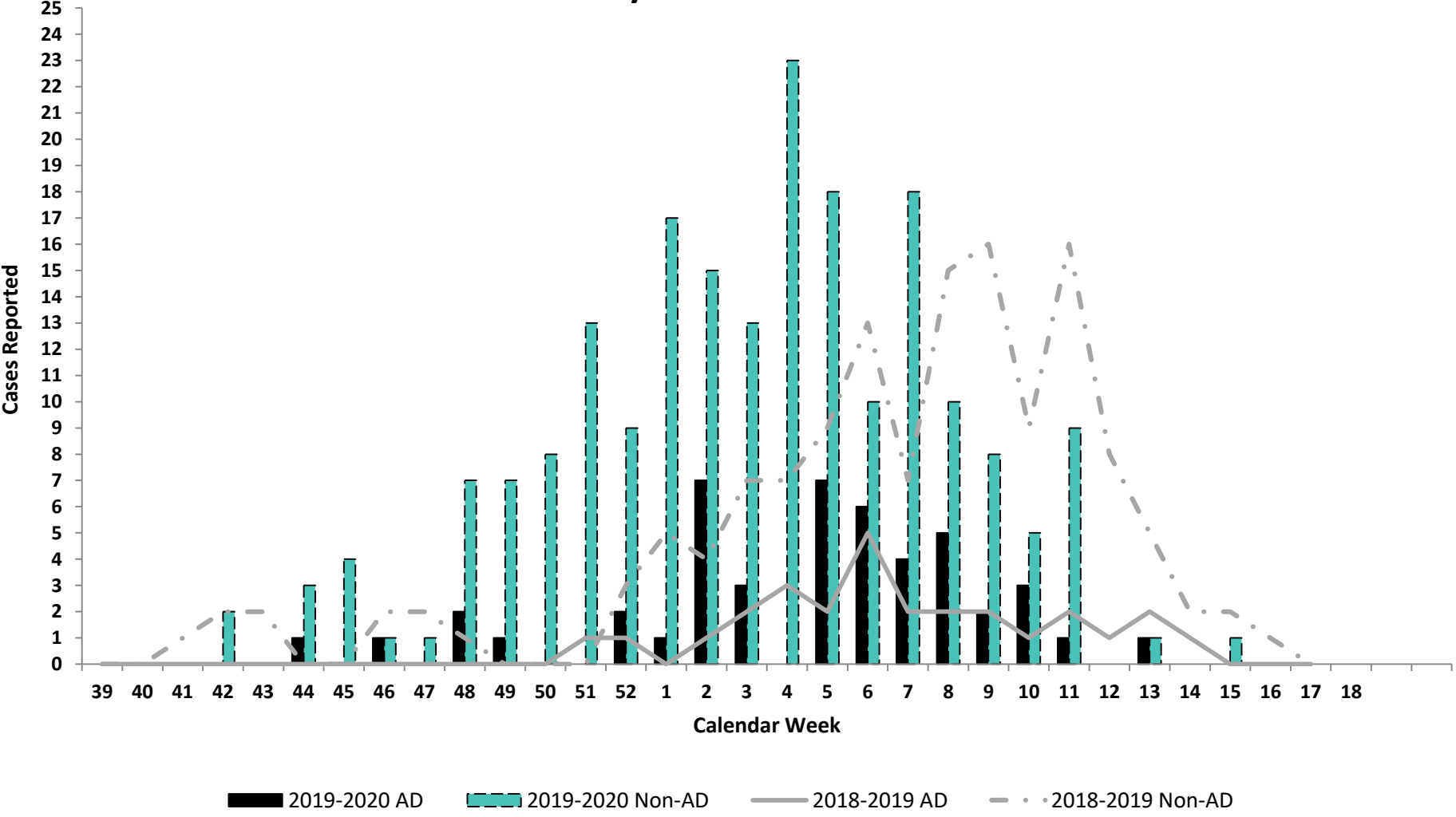
*This map indicates geographic spread and does not measure the severity of influenza activity.



Week 16			
Age Group	AD	Non-AD Ben	Season Total
< 18	0	10	9868
18-29	4	1	3018
30-39	0	0	2266
40-49	2	0	1311
50-59	1	0	985
60+	0	1	873
Total	7	12	18321

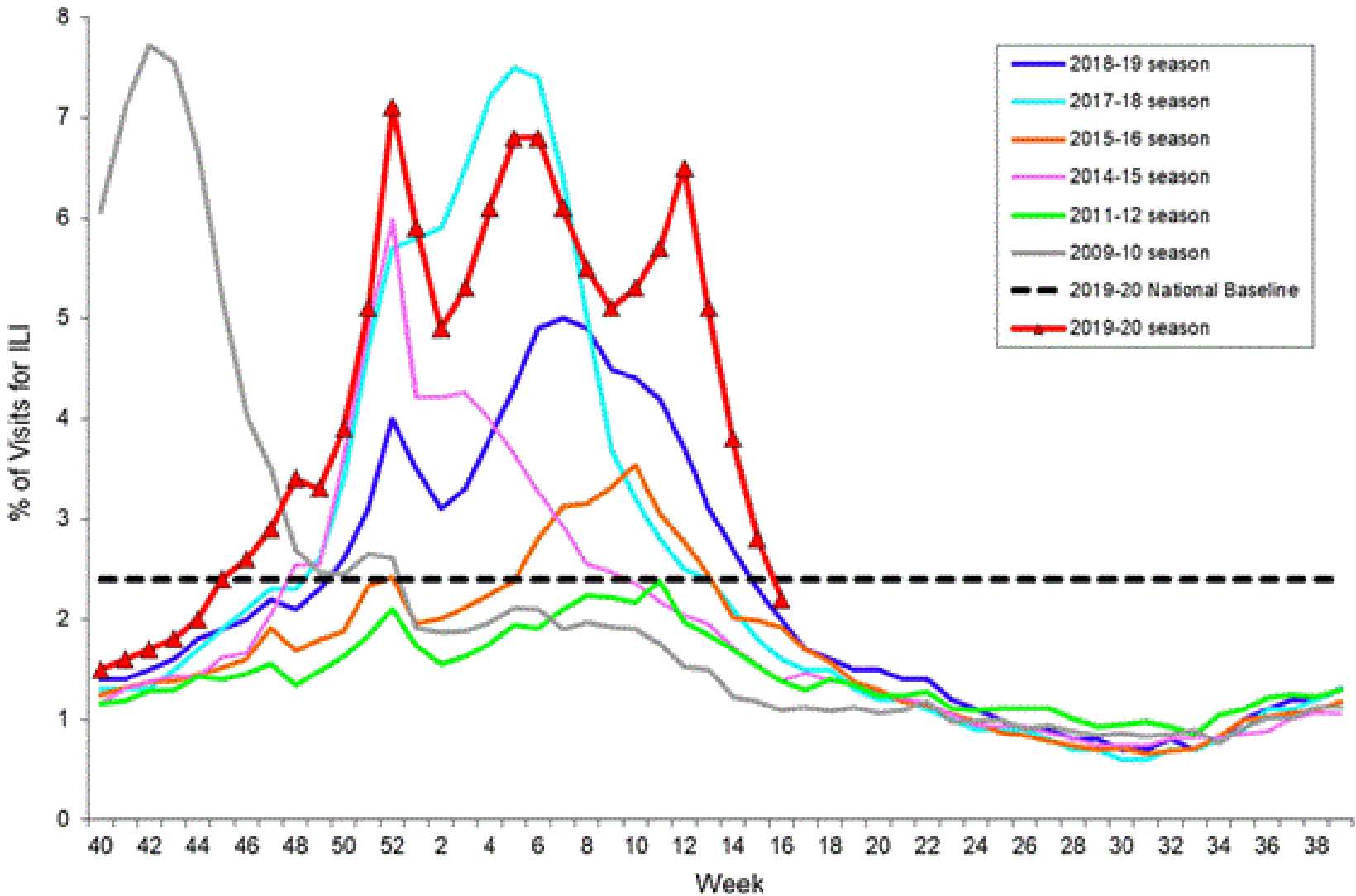


Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Week

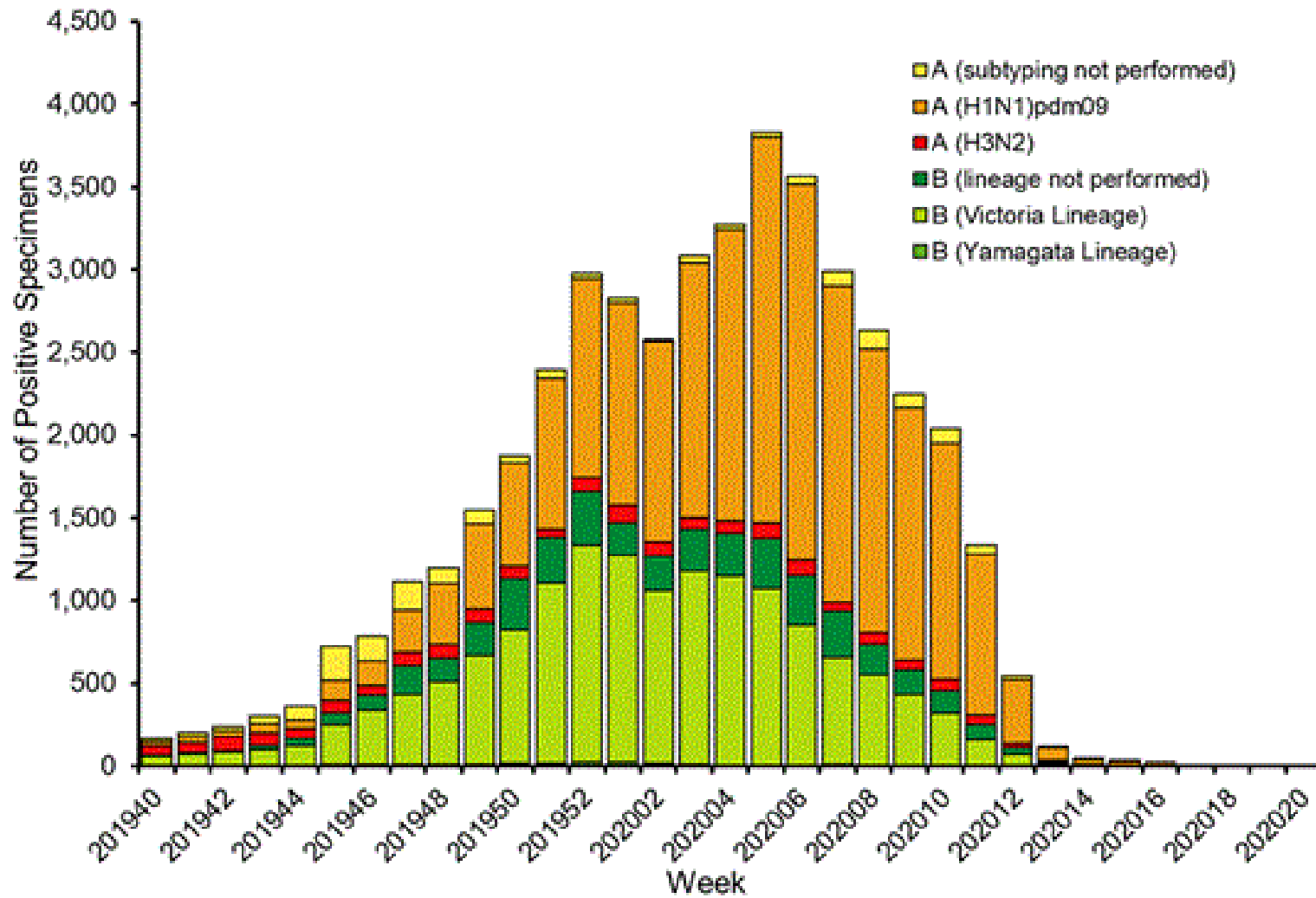


Note: Reportable influenza cases are defined as only cases that have been hospitalized and are under the age of 65.
Data as of 23 April 2020.

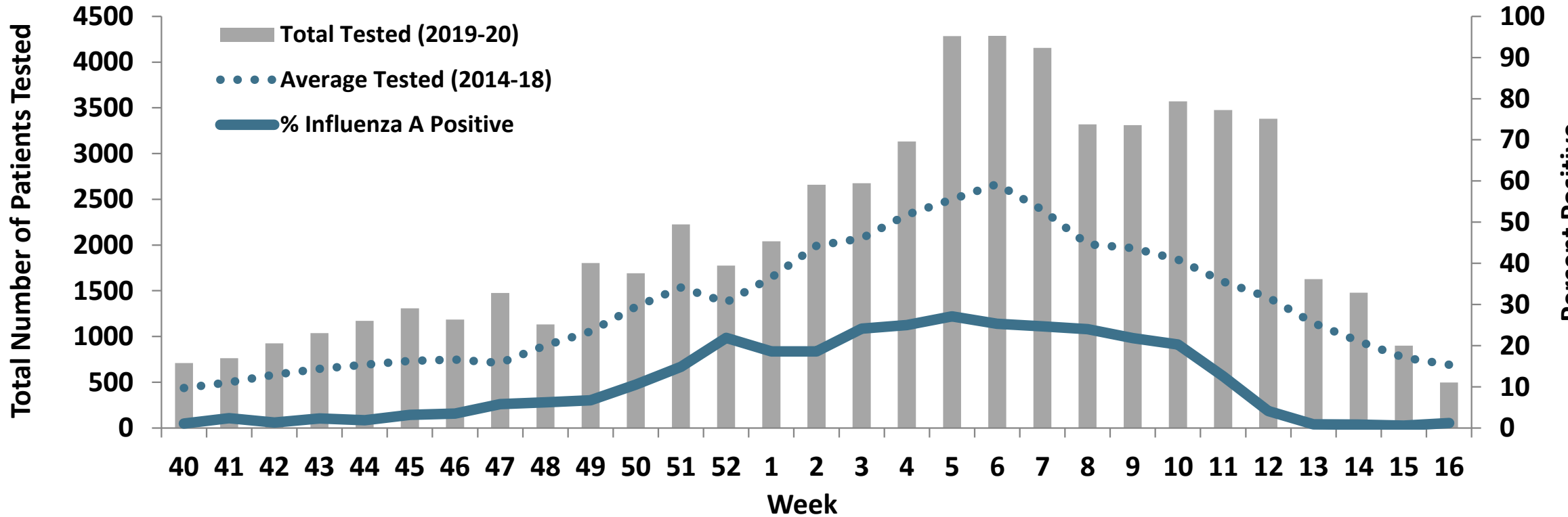
Percentage of Visits for Influenza-like Illness (ILI) Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), Weekly National Summary, 2019-2020 and Selected Previous Seasons



Influenza Positive Tests Reported to CDC by U.S. Public Health Laboratories, National Summary, 2019-2020 Season



Proportion of Positive Influenza A Specimens for U.S. Army 2019-2020



Laboratory Respiratory Specimen Testing: Weeks 13 – 16

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