

U.S. Army Public Health Center

# Army Influenza Activity Report

Week ending 27 April 2019 (week 17)

## Influenza Vaccination Coverage\*

As of 2 May 2019

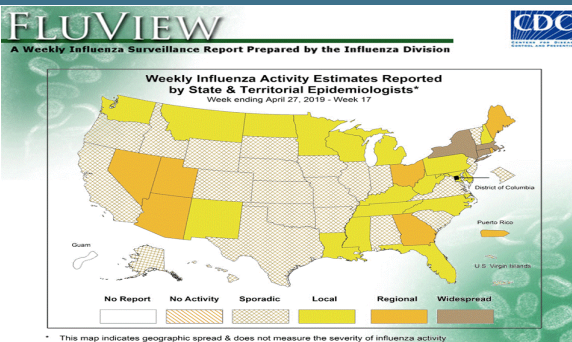
N/A	DoD
98%	Army Active Duty
89%	Army Guard
85%	Army Reserve

\*Data Source: MEDPROS, ASIMS, MRRS

## SUMMARY

The overall number of positive respiratory specimens continues to decrease. During week 17, a 37% decrease in the number of positive specimens was noted when compared to week 16 with 177 samples in week 16 and 111 samples in week 17. The largest decreases were seen in specimens of adenovirus and respiratory syncytial virus, with decreases of 70% and 64%, respectively, when compared to the previous week. The number of positive specimens of influenza B increased by 15%, when compared to week 16; there were 26 cases in week 16 and 30 in week 17. No influenza-associated hospitalizations with an onset date in week 17 were reported in the Disease Reporting System internet. Although this is the final report of the season, the Army Public Health Center will continue to monitor for positive cases.

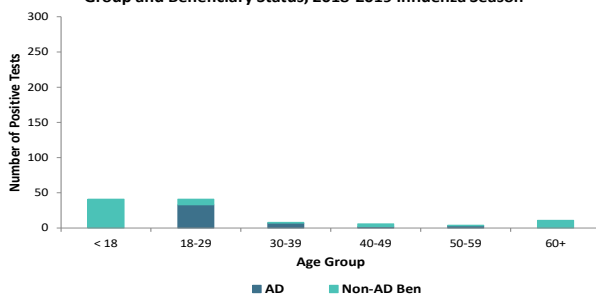
## GEOGRAPHIC SPREAD



In the general U.S. population, widespread influenza activity was reported by three states. Regional activity was reported by Puerto Rico and 7 states, and local activity was reported by 18 states. Sporadic activity was reported by the District of Columbia, the U.S. Virgin Islands and 22 states. Guam did not report to the Centers for Disease Control and Prevention (CDC) in week 17.

## DEMOGRAPHICS

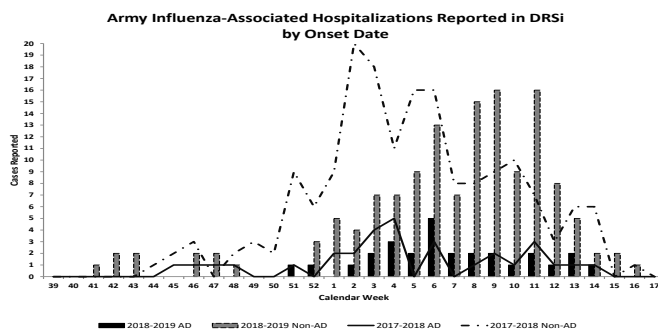
Positive Respiratory Specimen Results from Army MTFs by Age Group and Beneficiary Status, 2018-2019 Influenza Season



**Active Duty (AD):** In week 17, 41% (n=45) of total positive specimens (n=111) were among AD Service Members (SMs). Seventy-three percent (n=33) of positive specimens among AD Service Members were from individuals in the 18-29 age group.

**Non-AD:** The majority of the positive specimens continue to result from the non-AD population. In week 17, this group accounted for 59% (n=66) of the total positive specimens. Individuals younger than 18 years were disproportionately affected; they accounted for 62% (n=41) of the positive specimens among non-AD individuals in week 17.

## INFLUENZA-ASSOCIATED HOSPITALIZATIONS



There were no hospitalizations reported to DRSi in week 17. To date, there have been 167 hospitalizations for the season: 28 AD SMs and 139 non-AD individuals. At this time during the last influenza season, 207 hospitalizations were reported.

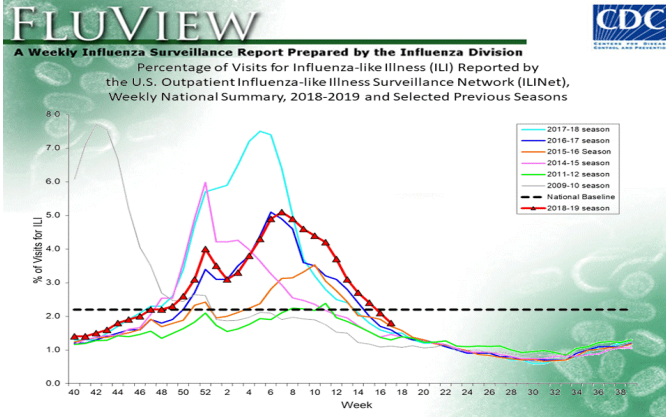
\*DRSi does not capture cases older than 65 years old for influenza-associated hospitalizations.

**Additional Resources:** [Army Influenza Reports](#); [ARD Reports](#); [AFHSB Influenza Reports](#); [NHRC FRI Reports](#); [DoD Pandemic Influenza Watchboard](#); [CDC](#)

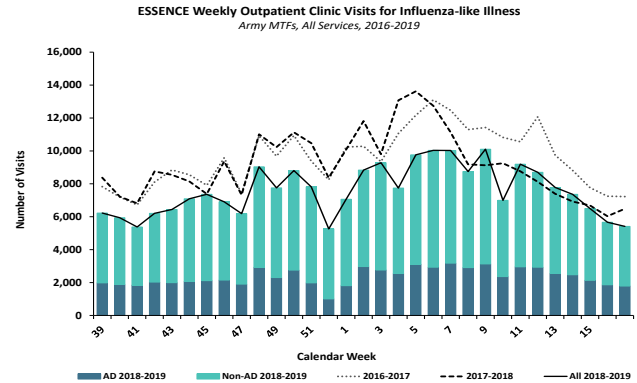
**Key:** ILI- Influenza-Like Illness; DRSi- Disease Reporting System Internet; NHRC- Naval Health Research Center; RSV- Respiratory Syncytial Virus; DEP- Disease Epidemiology Program

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

## ILI ACTIVITY - UNITED STATES

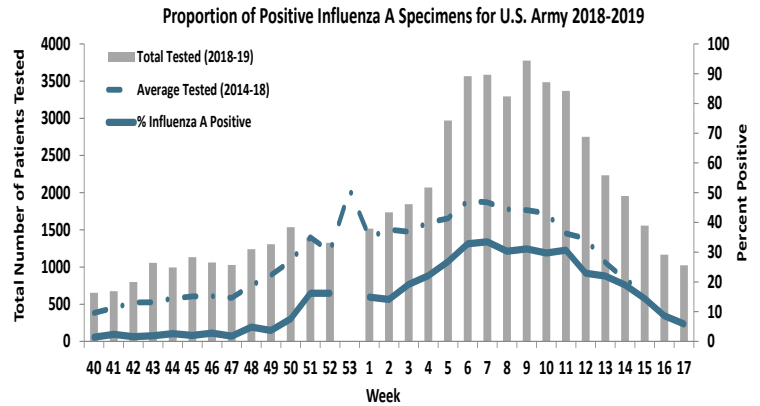
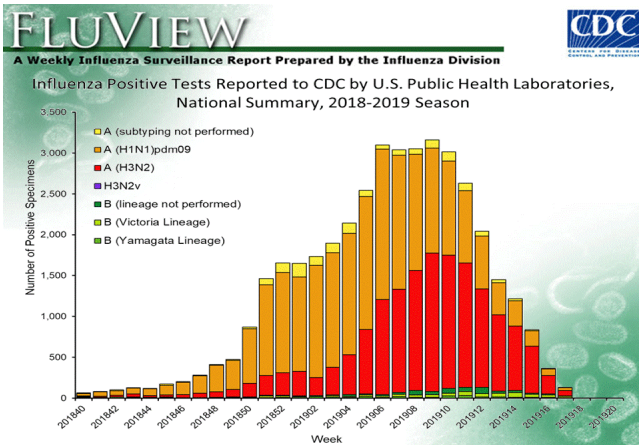


## ILI ACTIVITY - ARMY



Nationwide in week 17, incidence of ILI activity was 1.8%, which is below the national baseline of 2.2%. Regionally, the percentage of ILI outpatient visits reported to the CDC ranged from 0.8% to 2.8%. At Army medical treatment facilities, overall incidence of ILI activity decreased by 4.5% when compared to the previous week. ILI activity among the AD population also decreased by 4.2% from week 16 to week 17. When compared to week 17 of the 2017-2018 season, there were 17% fewer ILI outpatient visits in week 17 of the current season.

## LABORATORY RESPIRATORY SPECIMEN TESTING



Nationwide, 496 specimens were tested and submitted to the CDC during week 17, of which 132 (27%) were positive for influenza. In the Army population, the majority of the influenza A-positive specimens continue to be reported from RHC-C and RHC-A, with 48% (n=29) and 33% (n=20) of the positive specimens, respectively. RHC-P accounted for 15% (n=9) of the positive influenza A specimens while RHC-E accounted for 3% (n=2).

		Week 14	Week 15	Week 16	Week 17	Season Total
Test Types Among Positive Influenza A Specimens	RAT	275	157	71	45	7185
	Culture	22	6	8	3	504
	PCR	75	61	21	12	3701
Army MTF Laboratory Results, 2018-19	Influenza A	372	224	100	60	11390
	Influenza B	36	34	26	30	544
	Adenovirus	15	9	20	6	468
	Enterovirus	0	0	0	0	5
	Parainfluenza	13	21	17	10	417
	RSV	20	7	14	5	1839
	Negative	3411	2988	2436	2233	96002
<b>Total</b>	<b>3867</b>	<b>3283</b>	<b>2613</b>	<b>2344</b>	<b>110665</b>	

The number of positive respiratory specimens decreased by 37% from week 16 to week 17; there were 177 positive specimens in week 16 and 111 in week 17. All respiratory pathogens, except influenza B, decreased in the number of positive specimens from week 16 to week 17: influenza A, adenovirus, respiratory syncytial virus, and parainfluenza decreased by 40%, 70%, 64%, and 41%, respectively. Influenza B increased by 15%, while the number of positive enterovirus specimens remained at zero.

**Locations providing week 17 laboratory data as of 1 May 2019:** Ft Belvoir, Ft Benning, Ft Bliss, Ft Bragg, Ft Campbell, Ft Carson, Ft Drum, Ft Eustis, Ft Gordon, Ft Hood, Ft Huachuca, Ft Irwin, Ft Jackson, Ft Knox, Ft Leavenworth, Ft Lee, Ft Leonard Wood, Ft Polk, Ft Riley, Ft Rucker, Ft Sam Houston, Ft Sill, Ft Stewart, Ft. Wainwright, Landstuhl Regional Medical Center, Korea, Redstone Arsenal, Tripler Army Medical Center, the United States Military Academy, and Walter Reed National Military Medical Center.

## LABORATORY RESPIRATORY SPECIMEN TESTING

Region	Installation	Influenza A			Influenza B			Adenovirus		
		No. Tested	% Positive	Baseline % Pos.	No. Tested	% Positive	Baseline % Pos.	No. Tested	% Positive	Baseline % Pos.
RHCA	Ft. Belvoir	124	3.2	0	74	1.4	100	36	11.1	100
	Ft. Benning	53	5.7	0	53	1.9	0			
	Ft. Bragg	44	11.4	0			100			
	Ft. Campbell	45	6.7	3.3	45	0	0			
	Ft. Drum	6	16.7	0						
	Ft. Eustis	10	0	50			100			
	Ft. Gordon	30	3.3	0	30	0	0			
	Ft. Jackson	43	0	0	43	0	0			
	Ft. Knox	6	0	0	6	0	4.3			
	Ft. Lee	21	4.8	0						
	Ft. Meade			0						
	Ft. Rucker	5	0	0	5	0	0			
	Ft. Sam Houston	132	1.5	2.1	136	2.2	12.2			
	Ft. Stewart	27	7.4	5.4	26	3.8	13.5			
	Redstone Arsenal	4	0	14.3	4	0	0			
U.S. Military Academy	5	0	0	5	0	100				
RHCC	Ft. Bliss	89	2.2	0	91	4.4	40	18	5.6	0
	Ft. Carson	51	13.7	0			100			
	Ft. Hood	88	1.1	4.8	89	1.1	14.3	12	8.3	
	Ft. Huachuca	6	33.3	14.3	6	0	0			
	Ft. Irwin	16	6.3	0	16	0	10.5			
	Ft. Leavenworth	16	0	0	15	0	0			
	Ft. Leonard Wood	38	21.1	0	39	0	0			
	Ft. Polk	21	0	27.3	1	100				
	Ft. Riley	19	0	0	20	0	0			
Ft. Sill	28	21.4	0	1	100	100				
RHCE	Landstuhl Regional Medical Center	10	20	0	9	0	0	9	0	0
RHCP	Ft. Wainwright	45	2.2	17	47	34	13.5			
	Korea	35	14.3	11.1	29	3.4	0	28	0	0
	Tripler Army Medical Center	71	4.2	2.4	45	0	100	45	0	100

Region	Installation	Enterovirus			Parainfluenza			RSV		
		No. Tested	% Positive	Baseline % Pos.	No. Tested	% Positive	Baseline % Pos.	No. Tested	% Positive	Baseline % Pos.
RHCA	Ft. Belvoir				43	16.3		83	1.2	0
	Ft. Stewart						100	6	0	20
	U.S. Military Academy						100			
RHCC	Ft. Bliss							88	1.1	8.3
	Ft. Carson							16	12.5	0
	Ft. Hood				12	0		31	0	
	Ft. Leavenworth							4	0	0
	Ft. Polk							7	0	0
	Ft. Riley							7	0	0
	Ft. Sill							2	0	0
RHCE	Landstuhl Regional Medical Center				9	0	0	11	0	0
RHCP	Ft. Wainwright							46	2.2	0
	Korea				29	6.9	27.3	28	0	12.5
	Tripler Army Medical Center	45	0	100	46	2.2	100			100

No.: Number of specimens tested during MMWR week 17 2019.

% Positive: Percentage of positive specimens reported during MMWR week 17, 2019.

Baseline % Pos.: Percentage of positive specimens reported in MMWR week 17 during influenza seasons from September 2012 - May 2018.

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

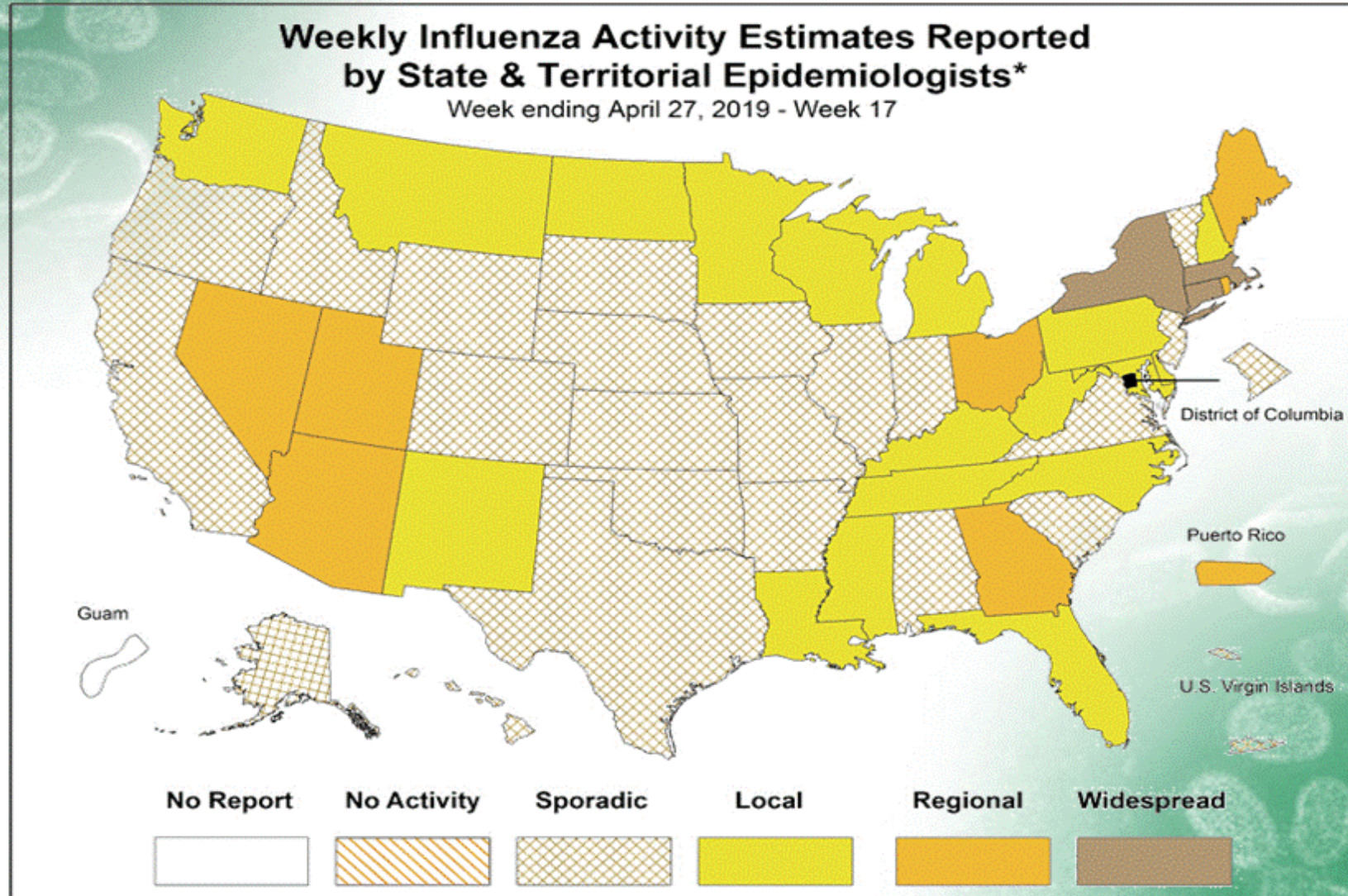
High baseline percent positive values may be due to low numbers of specimens tested.





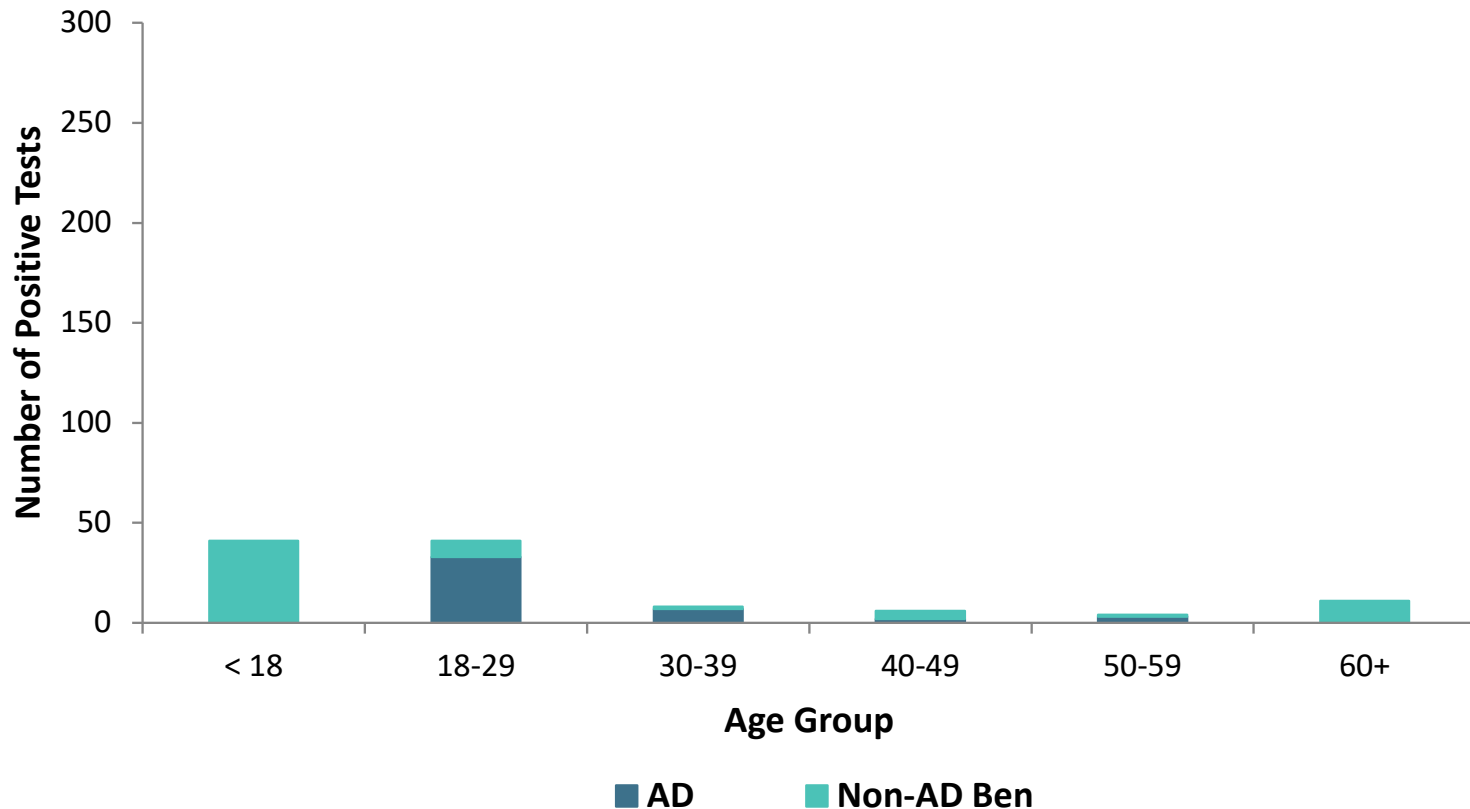
# FLUVIEW

A Weekly Influenza Surveillance Report Prepared by the Influenza Division



\* This map indicates geographic spread & does not measure the severity of influenza activity

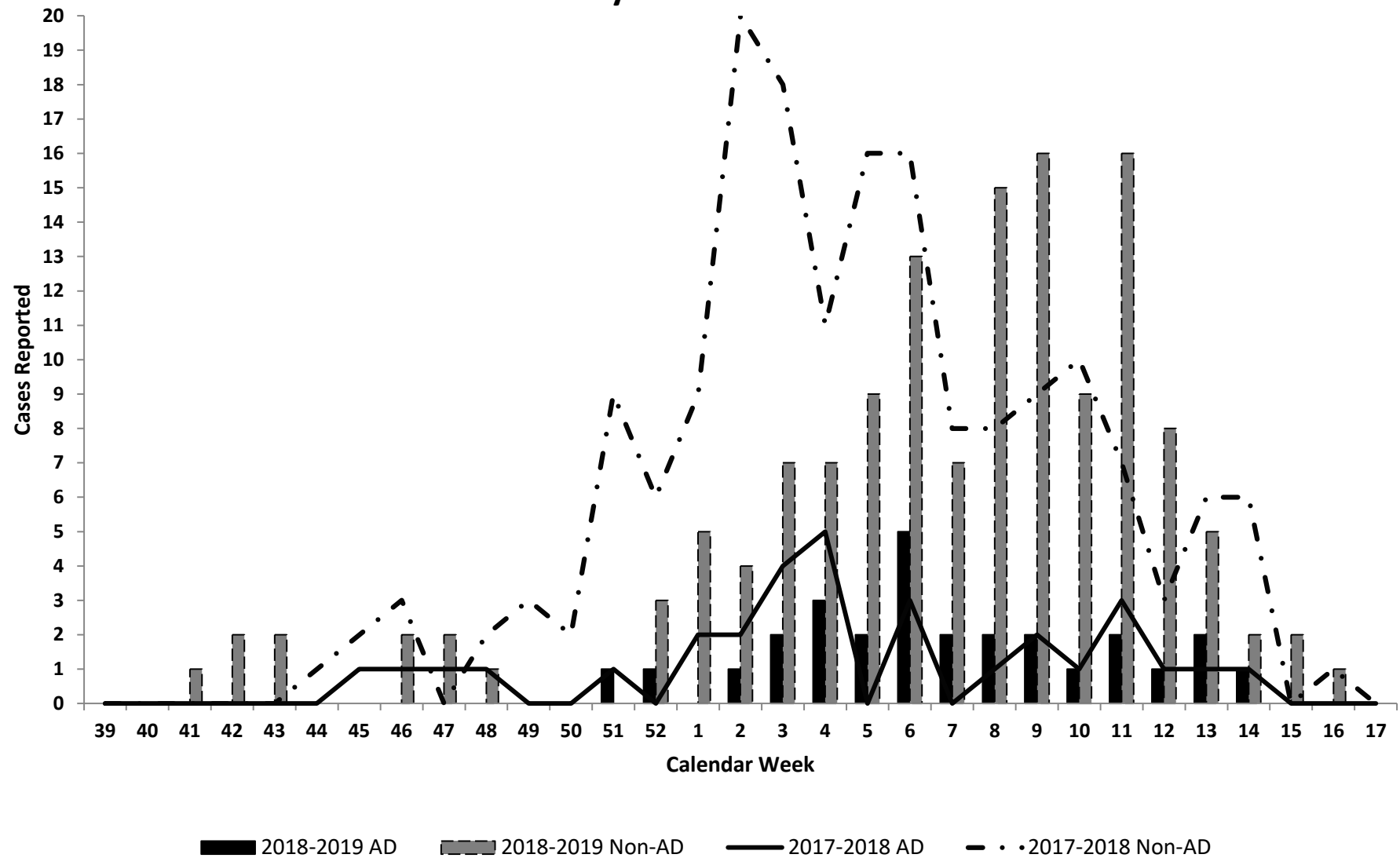
**Positive Respiratory Specimen Results from Army MTFs by Age Group and Beneficiary Status, 2018-2019 Influenza Season**



<b>Week 17</b>			
<b>Age Group</b>	<b>AD</b>	<b>Non-AD Ben</b>	<b>Season Total</b>
< 18	0	41	<b>6446</b>
18-29	33	8	<b>1794</b>
30-39	7	1	<b>1216</b>
40-49	2	4	<b>762</b>
50-59	3	1	<b>544</b>
60+	0	11	<b>628</b>
<b>Total</b>	<b>45</b>	<b>66</b>	<b>11390</b>



# Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Date



**Note:** Reportable influenza cases are defined as only cases that have been hospitalized and are under the age of 65. See [Armed Forces Reportable Medical Events Guidelines and Case Definitions](#) for more information.

Data as of 30 April 2019.

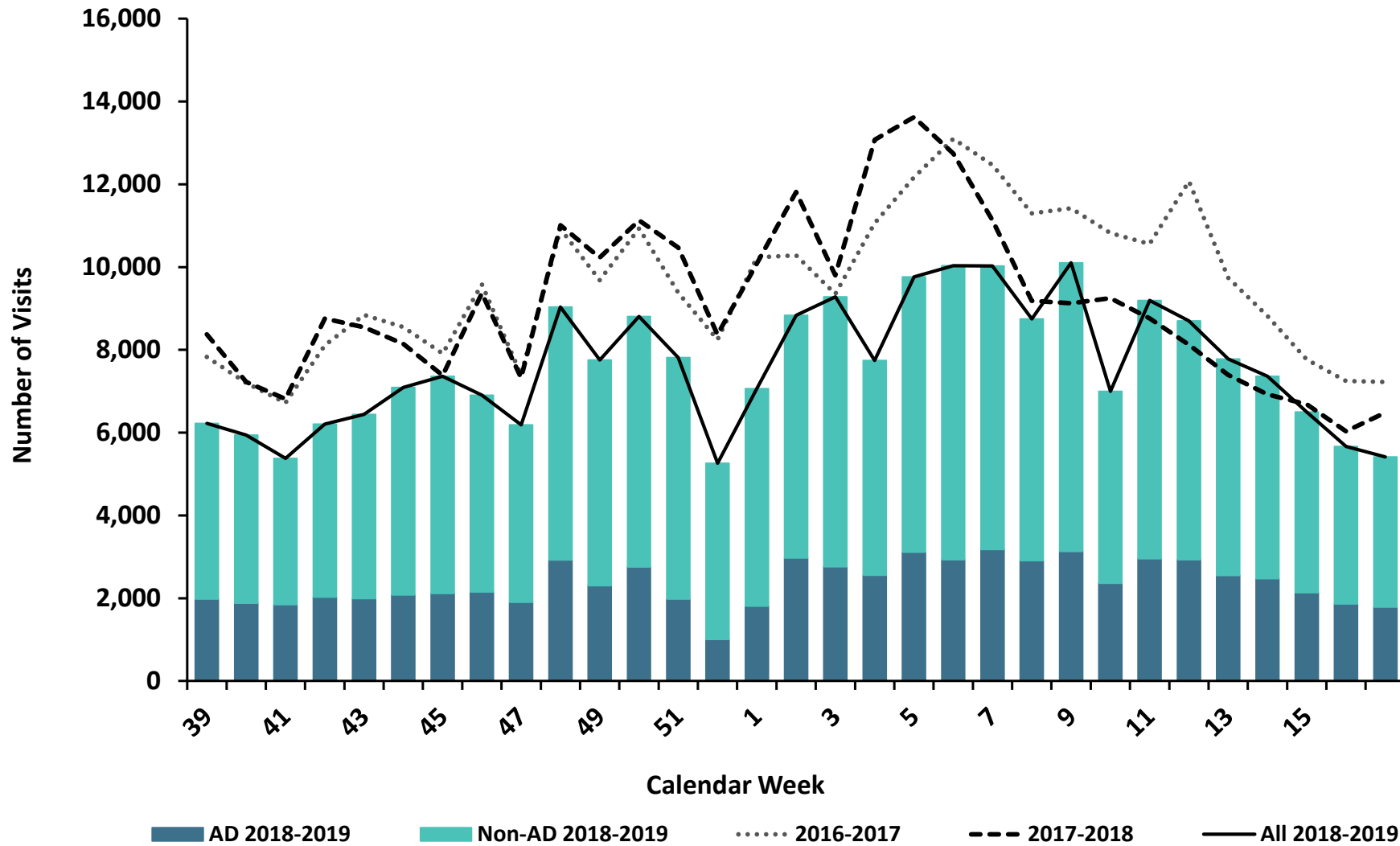






# ESSENCE Weekly Outpatient Clinic Visits for Influenza-like Illness

Army MTFs, All Services, 2016-2019



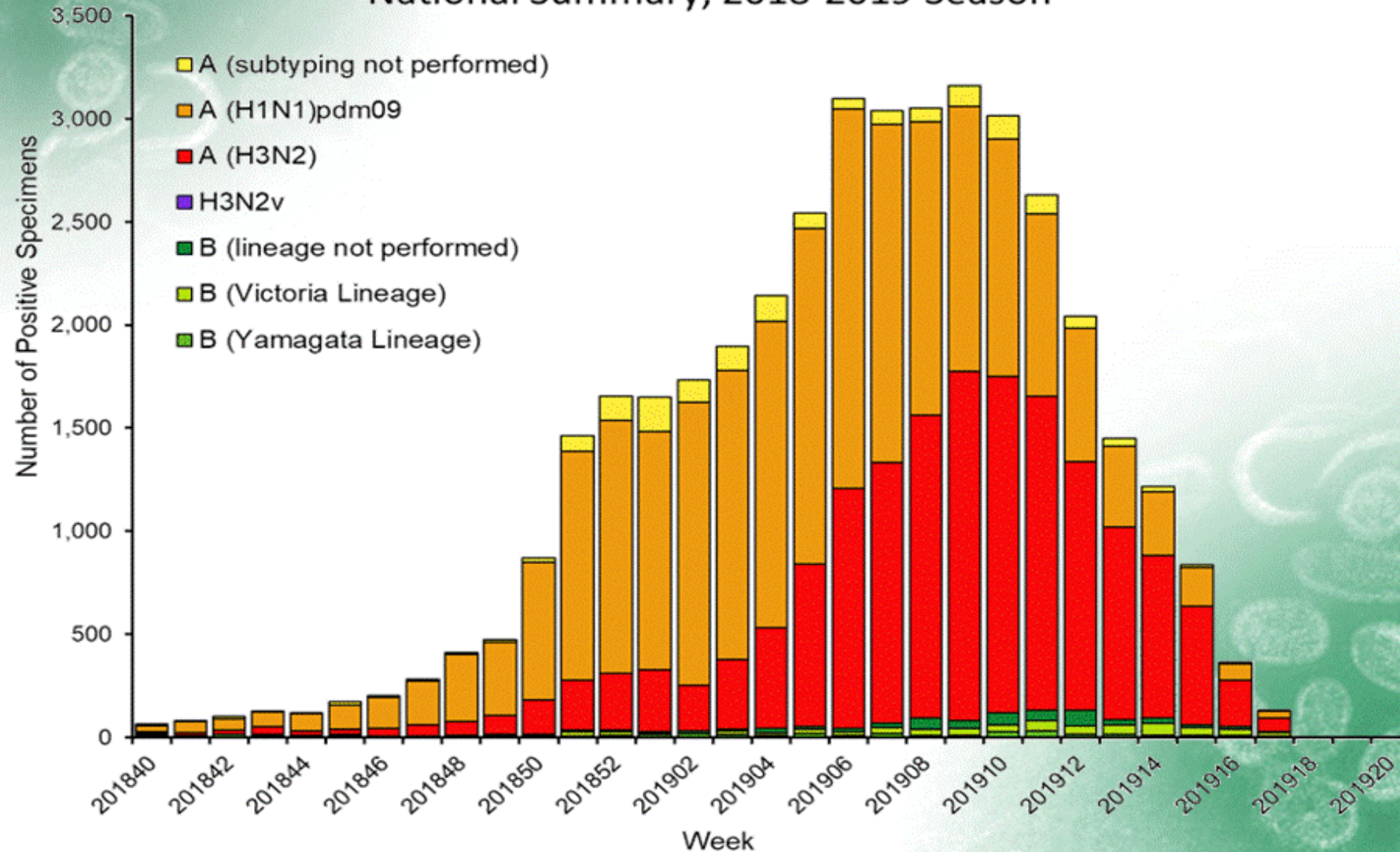
Clinic visits for ILI are obtained from ESSENCE. Data as of 2 May 2019.

# FLUVIEW

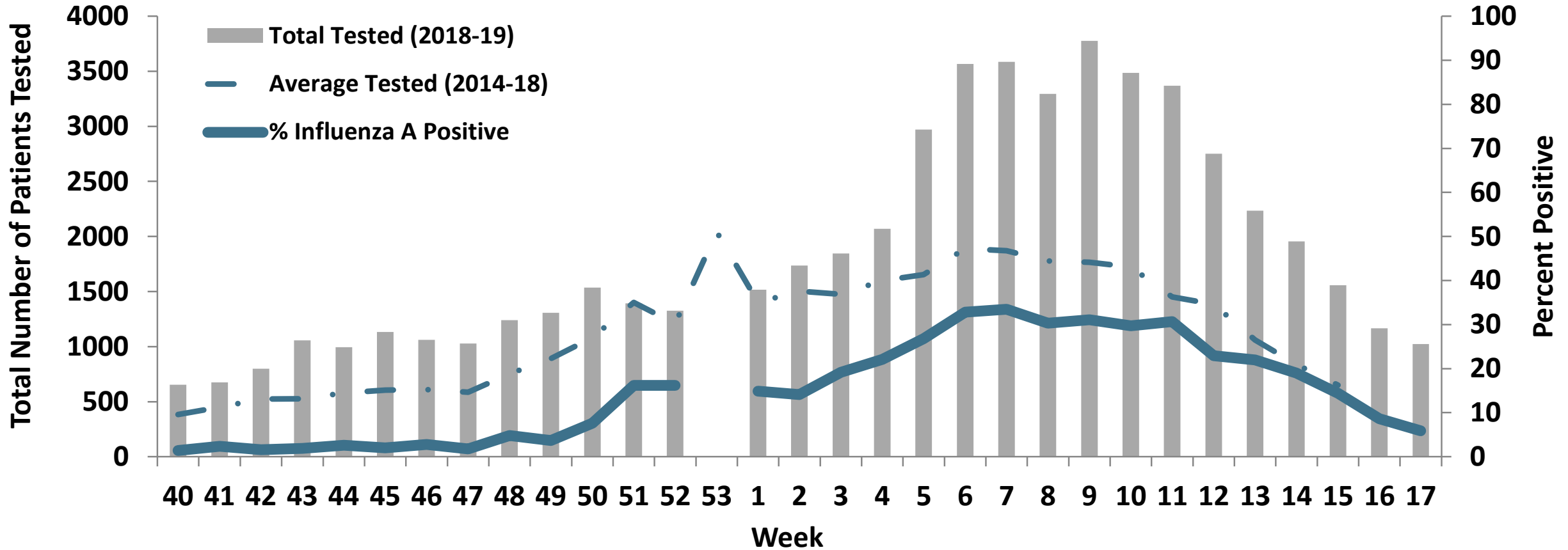


A Weekly Influenza Surveillance Report Prepared by the Influenza Division

## Influenza Positive Tests Reported to CDC by U.S. Public Health Laboratories, National Summary, 2018-2019 Season



# Proportion of Positive Influenza A Specimens for U.S. Army 2018-2019





		<b>Week 14</b>	<b>Week 15</b>	<b>Week 16</b>	<b>Week 17</b>	<b>Season Total</b>
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