

U.S. Army Public Health Center  
**Army Influenza Activity Report**

Week ending 20 April 2019 (week 16)

**Influenza Vaccination Coverage\***

As of 25 April 2019

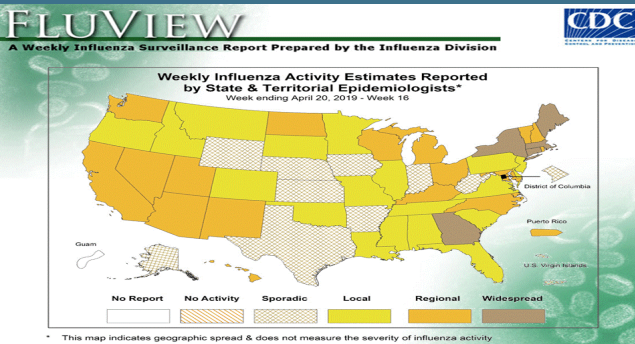
N/A	DoD
98%	Army Active Duty
89%	Army Guard
85%	Army Reserve

\*Data Source: MEDPROS, ASIMS, MRRS

**SUMMARY**

In week 16, a 46% decrease in the number of positive specimens was noted when compared to week 15; there were 293 samples in week 15 and 158 samples in week 16. The largest decrease was seen in positive specimens of influenza A (56%), with only 99 positives reported in week 16 compared to the 223 reported in week 15. The number of positive specimens of respiratory syncytial virus and adenovirus increased by 86% and 38%, respectively, when compared to the previous week. One influenza-associated hospitalization with an onset date in week 16 was reported in the Disease Reporting System internet. The patient was a vaccinated, non-Active Duty beneficiary. This brings this flu season's total hospitalizations to 167, a 19% decrease from the 207 total cases reported at this point in the 2017-2018 season.

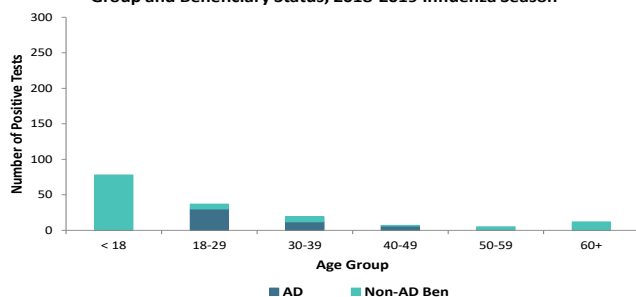
**GEOGRAPHIC SPREAD**



In the general U.S. population, widespread influenza activity was reported by five states. Regional activity was reported by Puerto Rico and 17 states, and local activity was reported by 19 states. Sporadic activity was reported by the District of Columbia, the U.S. Virgin Islands and nine states. Guam did not report to the Centers for Disease Control and Prevention (CDC) in week 16.

**DEMOGRAPHICS**

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

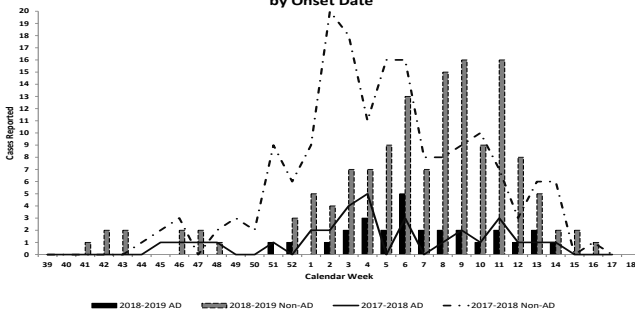


**Active Duty (AD):** In week 16, 30% (n=48) of the total positive specimens (n=158) were among AD Service Members (SMs). Sixty-two percent (n=30) of the positive specimens among AD Service Members were from individuals in the 18-29 age group.

**Non-AD:** The majority of the positive specimens continue to result from the non-AD population. In week 16, this group accounted for 69% (n=110) of the total positive specimens. Individuals younger than 18 years were disproportionately affected; they accounted for 71% (n=78) of the positive respiratory specimens among non-AD individuals in week 16.

**INFLUENZA-ASSOCIATED HOSPITALIZATIONS**

Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Date



One influenza-associated hospitalization, with an onset date in week 16, was reported in DRSi; the case was a non-AD individual. 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, a 19% decrease.

\*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](#)

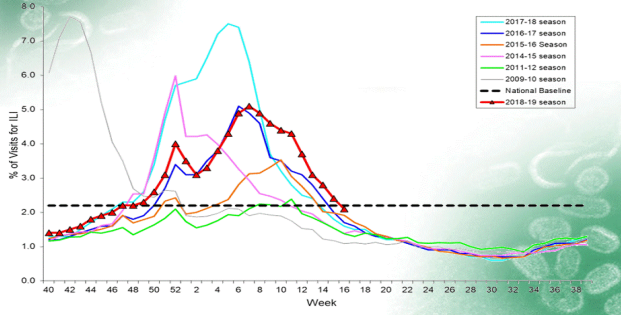
**Key:** ILI- Influenza-Like Illness; DRSi- Disease Reporting System Internet; NHRC- Naval Health Research Center; RSV- Respiratory Syncytial Virus; DEP- Disease Epidemiology Program

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

## ILI ACTIVITY - UNITED STATES

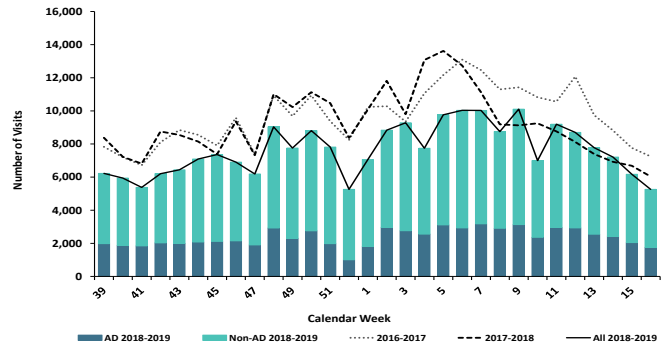
### FLUVIEW

A Weekly Influenza Surveillance Report Prepared by the Influenza Division  
 Percentage of Visits for Influenza-like Illness (ILI) Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), Weekly National Summary, 2018-2019 and Selected Previous Seasons



## ILI ACTIVITY - ARMY

ESSENCE Weekly Outpatient Clinic Visits for Influenza-like Illness  
 Army MTFs, All Services, 2016-2019

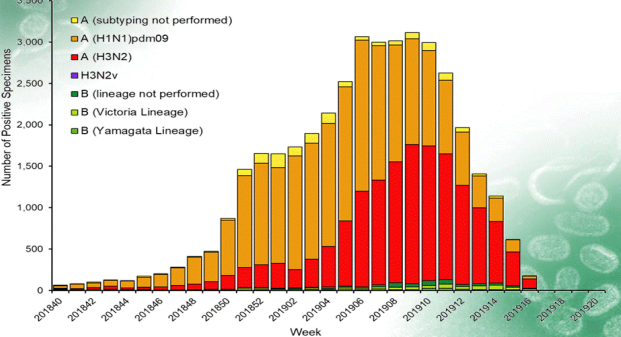


Nationwide in week 16, incidence of ILI activity was 2.1%, which is below the national baseline of 2.2%. Regionally, the percentage of ILI outpatient visits reported to the CDC ranged from 0.8% to 3.2%. At Army medical treatment facilities, overall incidence of ILI activity decreased by 14% when compared to the previous week. ILI activity among the AD population also decreased by 14% from week 15 to week 16. When compared to week 16 of the 2017-2018 season, there were 12% fewer ILI outpatient visits in week 16 of the current season.

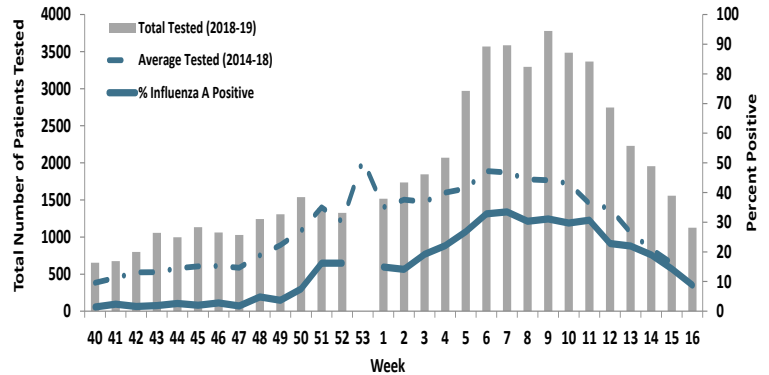
## LABORATORY RESPIRATORY SPECIMEN TESTING

### 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



Nationwide, 584 specimens were tested and submitted to the CDC during week 16, of which 177 (30%) were positive for influenza. In the Army population, the majority of the influenza A-positive specimens continue to be reported from RHC-A and RHC-C, with 44% (n=44) and 40% (n=40) of the positive specimens, respectively. Influenza A activity in these regions was also markedly lower in week 16 when compared to week 15; there was a 63% and 48% decrease in the number of positive influenza A specimens in RHC-A and RHC-C, respectively.

		Week 13	Week 14	Week 15	Week 16	Season Total
Test Types Among Positive Influenza A Specimens	RAT	352	275	157	71	7143
	Culture	5	22	6	8	494
	PCR	134	75	60	20	3687
Army MTF Laboratory Results, 2018-19	Influenza A	491	372	223	99	11324
	Influenza B	47	36	34	23	511
	Adenovirus	14	15	8	11	445
	Enterovirus	0	0	0	0	5
	Parainfluenza	12	13	21	12	399
	RSV	24	20	7	13	1833
	Negative	3712	3411	2991	2335	93694
	<b>Total</b>	<b>4300</b>	<b>3867</b>	<b>3284</b>	<b>2493</b>	<b>108211</b>

The number of positive respiratory specimens decreased by 46% from week 15 to week 16; there were 293 positive specimens in week 15 and 153 in week 16. All respiratory pathogens, except adenovirus and respiratory syncytial virus, decreased in the number of positive specimens from week 15 to week 16: influenza A, influenza B, and parainfluenza decreased by 55%, 32%, and 42% respectively. Adenovirus and respiratory syncytial virus increased by 27% and 85% respectively while the number of positive enterovirus specimens remained at zero.

**Locations providing week 16 laboratory data as of 24 April 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, 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 % Positive	No. Tested	% Positive	Baseline % Positive	No. Tested	% Positive	Baseline % Positive
RHCA	Ft. Belvoir	159	5.7	12.5	94	3.2	100	53	5.7	100
	Ft. Benning	45	8.9	1.8	45	2.2	5.3			
	Ft. Bragg	51	9.8	9.7			100			
	Ft. Campbell	45	11.1	0	46	2.2	7			100
	Ft. Drum	3	33.3	0			100			
	Ft. Eustis	22	18.2	9.1	2	100	100			
	Ft. Gordon	55	7.3	0	56	0	8.3			100
	Ft. Jackson	33	12.1	0	34	0	0			
	Ft. Knox	9	11.1	0	9	0	0			
	Ft. Lee	21	9.5	0			100			
	Ft. Meade			0						
	Ft. Rucker	6	0	0	6	0	0			
	Ft. Sam Houston	153	5.2	2	157	0	5.9			
	Ft. Stewart	33	15.2	0	35	2.9	0			
Redstone Arsenal			0			0				
West Point Military Academy	8	0	11.1	8	0	100			100	
RHCC	Ft. Bliss	88	6.8	3.7	65	0	100	14	21.4	28.6
	Ft. Carson	69	5.8	0			100			
	Ft. Hood	81	2.5	0	80	0	2.6	16	6.3	
	Ft. Huachuca	14	14.3	60	16	0	0			
	Ft. Irwin	15	33.3	0	15	0	0			
	Ft. Leavenworth	11	27.3	0	11	0	17.6			
	Ft. Leonard Wood	34	26.5	0	33	0	0			
	Ft. Polk	21	4.8	31						
	Ft. Riley	21	0	0	22	4.5	0			
Ft. Sill	18	0	10.5	2	100	100				
RHCE	Landstuhl Regional Medical	19	5.3	0	18	0	0	18	16.7	12.5
RHCP	Ft. Wainwright	52	5.8	14	52	13.5	14			
	Korea	28	10.7	10	24	16.7	0	24	4.2	0
	Tripler Army Medical Center	71	11.3	0	46	2.2	0	45	0	0

Region	Installation	Enterovirus			Parainfluenza			RSV		
		No. Tested	% Positive	Baseline % Pos.	No. Tested	% Positive	Baseline % Pos.	No. Tested	% Positive	Baseline % Pos.
RHCA	Ft. Belvoir				60	10	100	103	1	33.3
	Ft. Campbell						100			
	Ft. Drum							1	100	0
	Ft. Gordon						100			
	Ft. Stewart							9	33.3	0
	West Point Military Academy						100			
RHCC	Ft. Bliss							63	6.3	10
	Ft. Carson							19	5.3	0
	Ft. Hood				19	15.8		29	3.4	
	Ft. Leavenworth							3	0	0
	Ft. Polk							6	0	0
	Ft. Riley							10	0	0
	Ft. Sill									0
RHCE	Landstuhl Regional Medical				18	0	11.1	18	0	0
RHCP	Ft. Wainwright							51	0	10.4
	Korea			0	24	8.3	0	24	4.2	0
	Tripler Army Medical Center	45	0	0	46	2.2	0	1	100	100

No.: Number of specimens tested during MMWR week 16 2019.

% Positive: Percentage of positive specimens reported during MMWR week 16, 2019.

Baseline % Pos.: Percentage of positive specimens reported in MMWR week 16 during influenza seasons from September 2012 - May 2018.

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

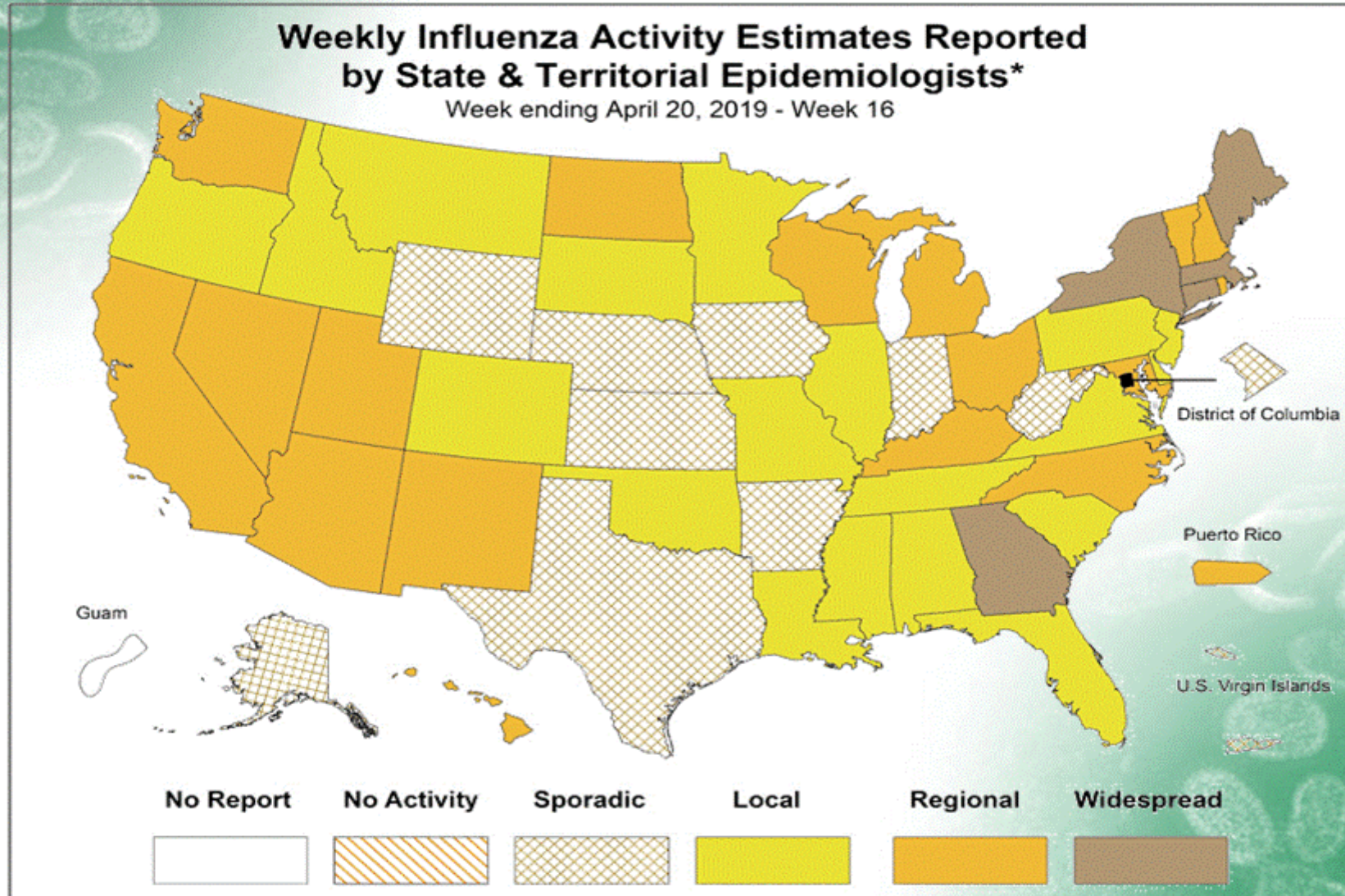
High baseline percent positive values may be due to low numbers of specimens tested.





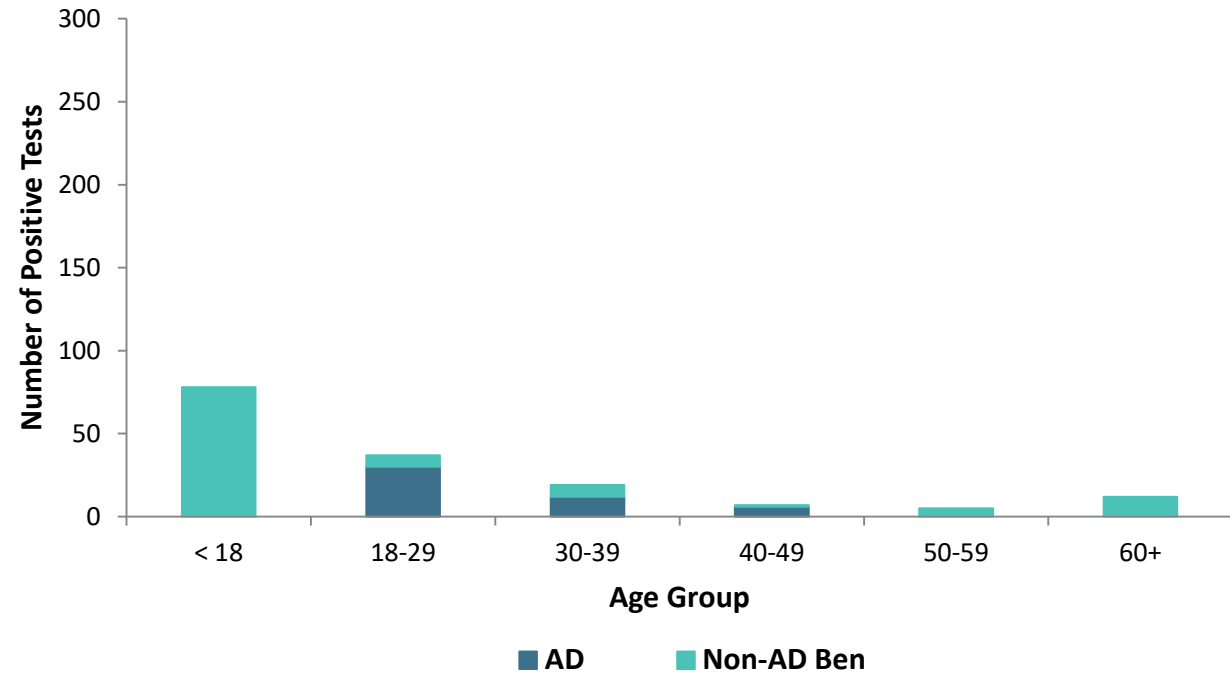
# FLUVIEW

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

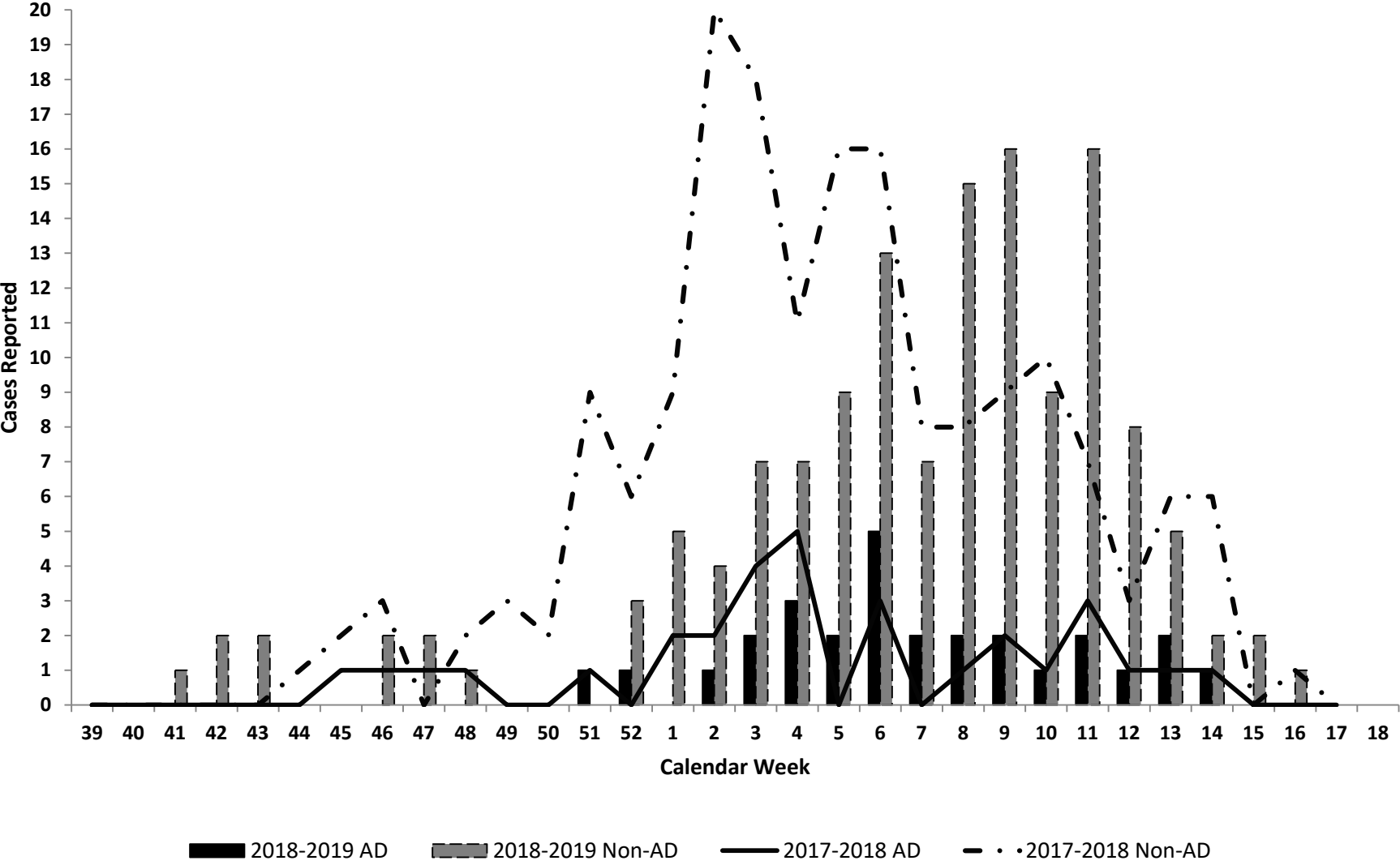
**Positive Respiratory Specimen Results from Army MTFs by Age Group and Beneficiary Status, 2018-2019 Influenza Season**



<b>Week 16</b>			
<b>Age Group</b>	<b>AD</b>	<b>Non-AD Ben</b>	<b>Season Total</b>
< 18	0	78	<b>6426</b>
18-29	30	7	<b>1770</b>
30-39	12	7	<b>1209</b>
40-49	6	1	<b>756</b>
50-59	0	5	<b>541</b>
60+	0	12	<b>622</b>
<b>Total</b>	<b>48</b>	<b>110</b>	<b>11324</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 24 April 2019.

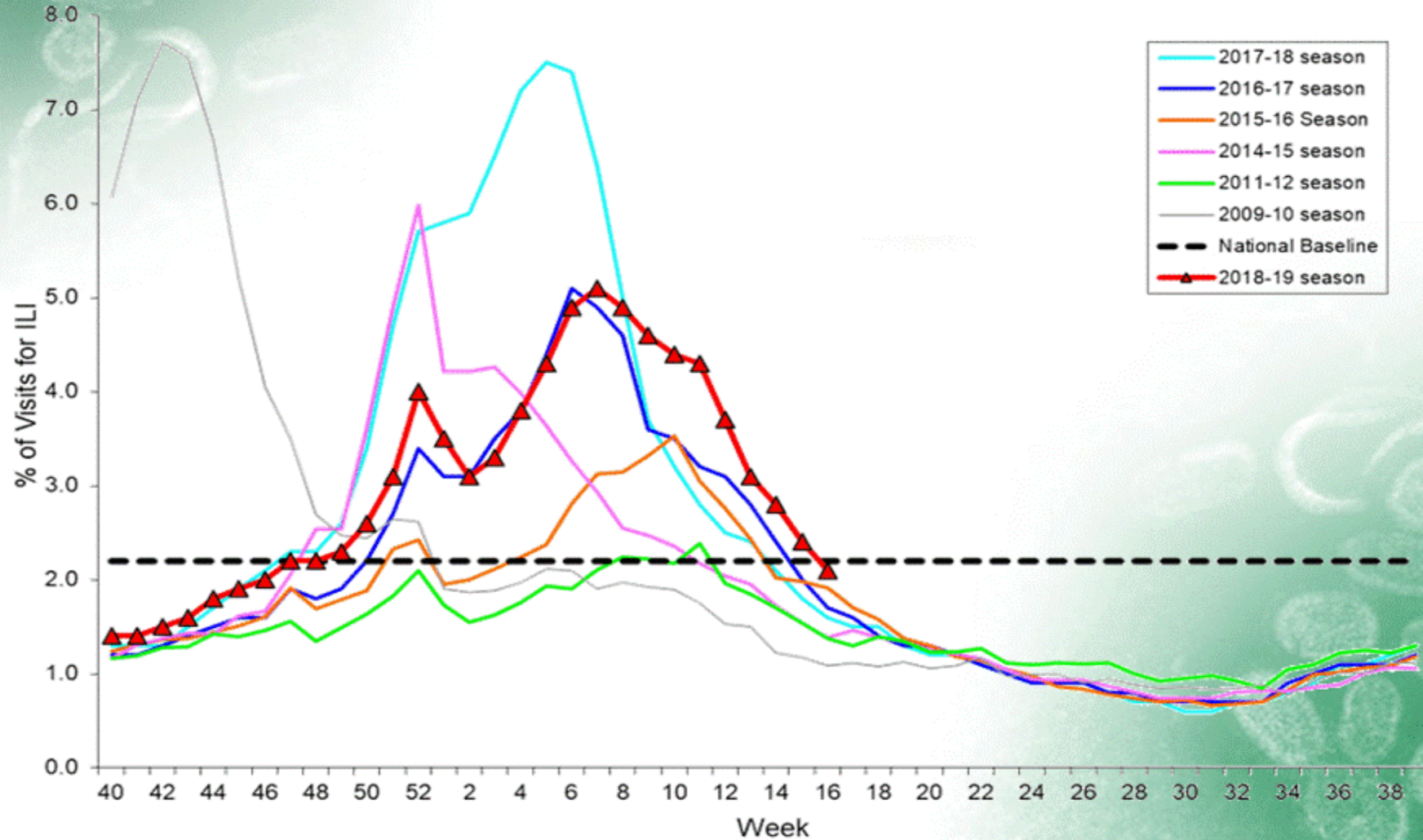


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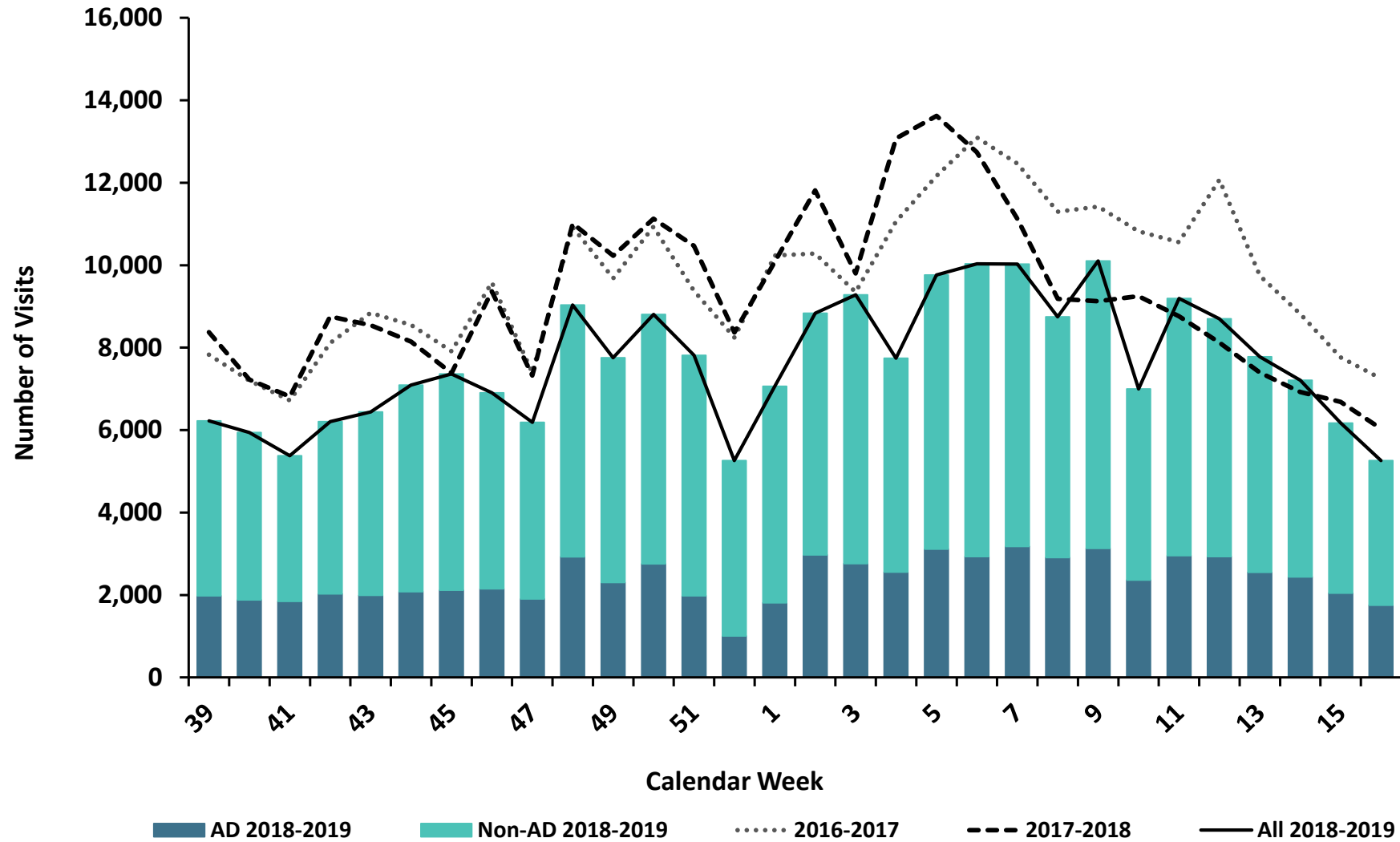
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# ESSENCE Weekly Outpatient Clinic Visits for Influenza-like Illness

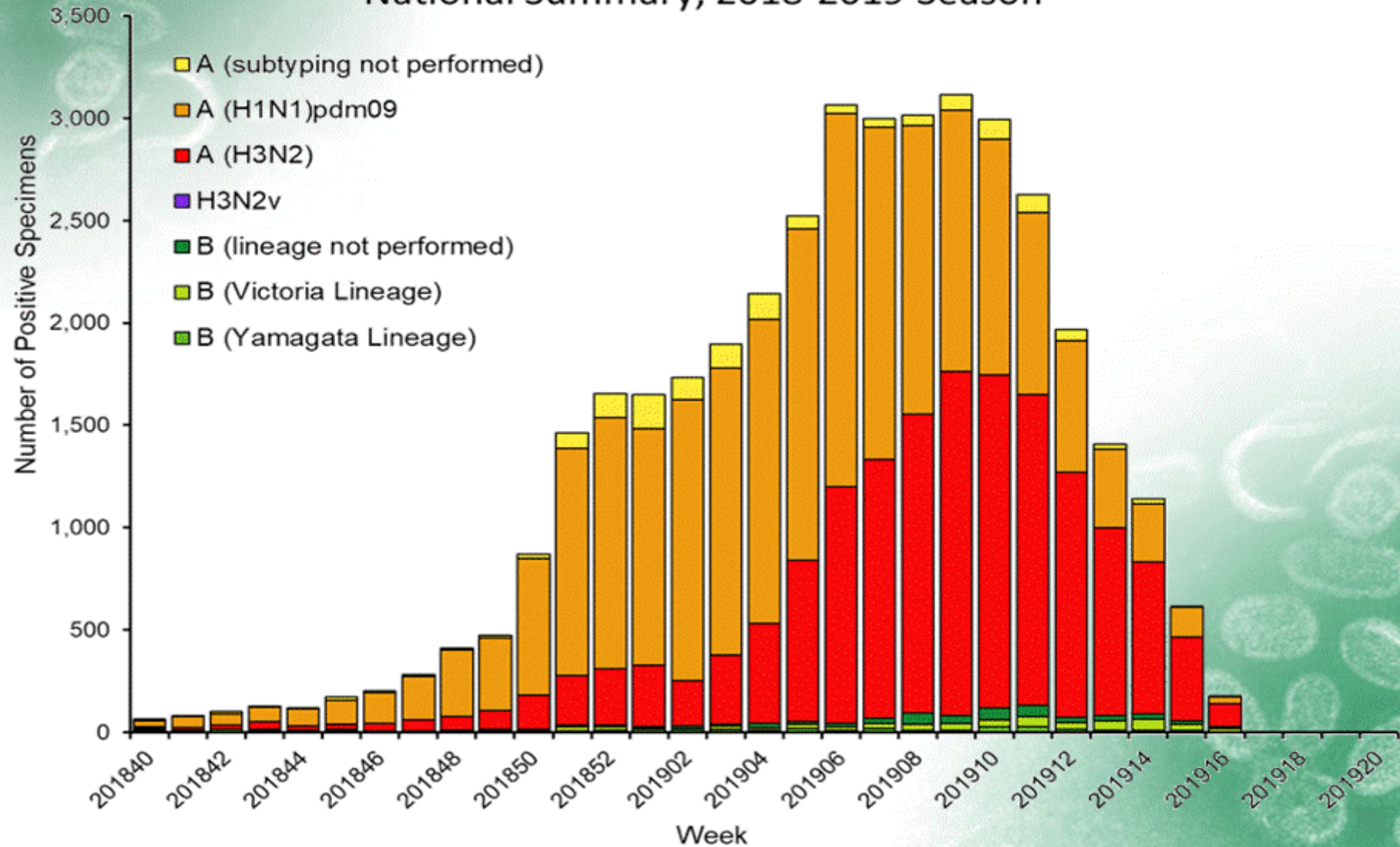
*Army MTFs, All Services, 2016-2019*



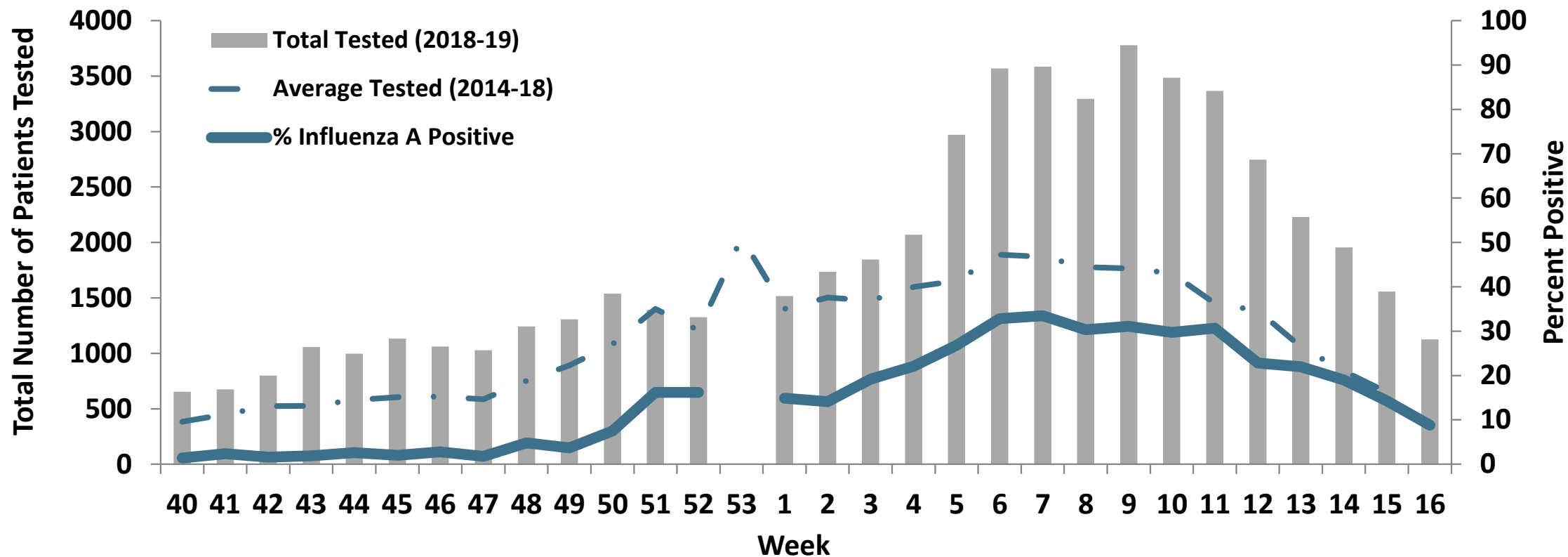
*Clinic visits for ILI are obtained from ESSENCE. Data as of 24 April 2019.*

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





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