

U.S. Army Public Health Center

# Army Influenza Activity Report

Week ending 19 January 2019 (week 3)

## Influenza Vaccination Coverage\*

As of 24 January 2019

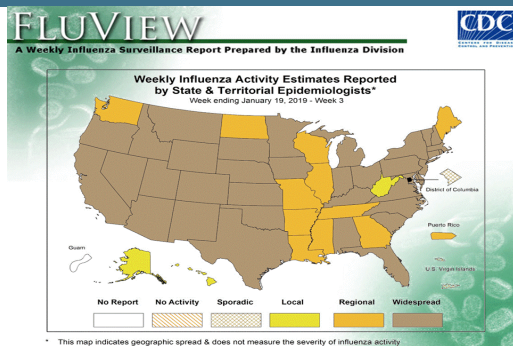
N/A	DoD
95%	Army Active Duty
89%	Army Guard
78%	Army Reserve

\*Data Source: MEDPROS, ASIMS, MRRS

## SUMMARY

The number of positive respiratory specimens increased by 25% from surveillance week 2 to surveillance week 3; there were 331 positive specimens in week 2 and 415 in week 3. Of the positive specimens, influenza A accounted for 74% (308), followed by respiratory syncytial virus with 20% (84), and influenza B with 4% (16). Adenovirus and parainfluenza both accounted for 1% of the positive specimens. The number of influenza-like illness visits in week 3 among the Active Duty population decreased by 18% when compared to the previous week. Proper hand hygiene, in addition to urging troops to seek medical attention for influenza-like symptoms, should continue to be encouraged by leadership.

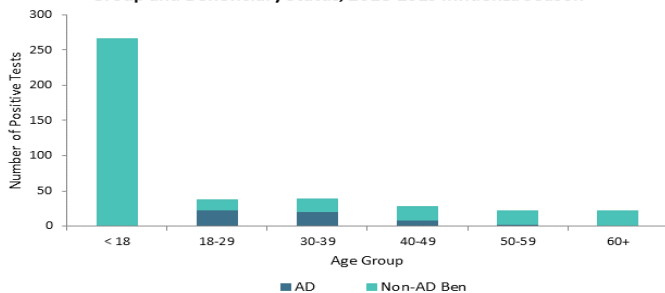
## GEOGRAPHIC SPREAD



In the general U.S. population, widespread influenza activity was reported by 36 states, which is an increase of 6 states from the previous week. Regional influenza activity was reported by Puerto Rico and 11 states, local activity was reported by 3 states, and sporadic activity was reported by the District of Columbia and the US Virgin Islands. Guam did not report to the Centers for Disease Control and Prevention (CDC) in week 3.

## DEMOGRAPHICS

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

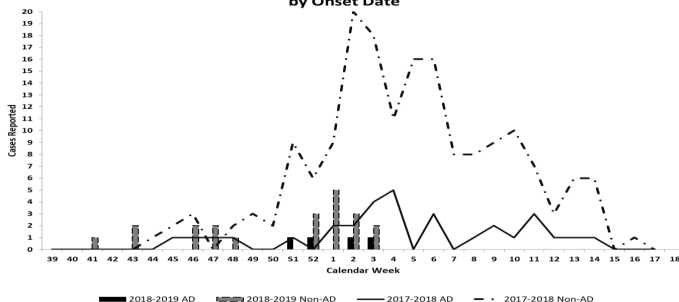


**AD:** In week 3, a 12% increase in the number of active duty cases (55) was noted when compared to week 2 (49). Forty-one percent (23) of the cases were individuals in the 18-29 age range. Remaining cases were as follows: 20 individuals (36%) were 30-39 years of age, 9 (16%) were 40-49, and 3 (5%) were 50-59.

**Non-AD:** There was a 45% increase in the number of positive specimens among non-AD individuals when week 2 (249) was compared with week 3 (360). Of the 360 positive cases, 266 (74%) were among those <18 years of age, and 22 (6%) were among those ≥60 years of age.

## INFLUENZA-ASSOCIATED HOSPITALIZATIONS

Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Date



Three cases of influenza-associated hospitalizations, with onset dates in week 3, were reported in DRSi. To date, there have been 25 influenza-associated hospitalizations this season, with 21 (84%) occurring in the non-AD population. Of the 25 cases, 14 (56%) were previously vaccinated. The average time between vaccination and illness for those who were vaccinated is 71 days. Twenty-one cases tested positive for type A and four for type B. At this time last season, 88 cases had been reported to DRSi.

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

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

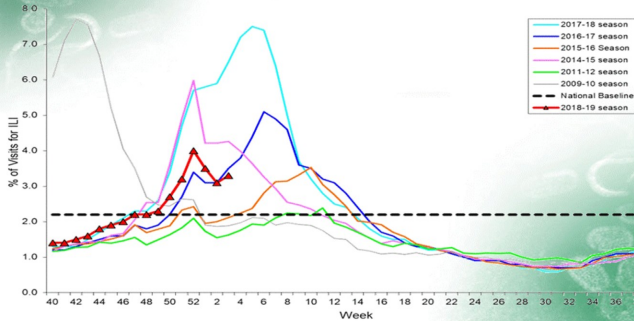
**Key:** ILI-Influenza-Like Illness; DRSi- Disease Reporting System Internet; NHRC- Naval Health Research Center; ADV-Adenovirus; RSV-Respiratory Syncytial Virus; DED- Disease Epidemiology Division; SM-Service Member

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

## ILI ACTIVITY - UNITED STATES

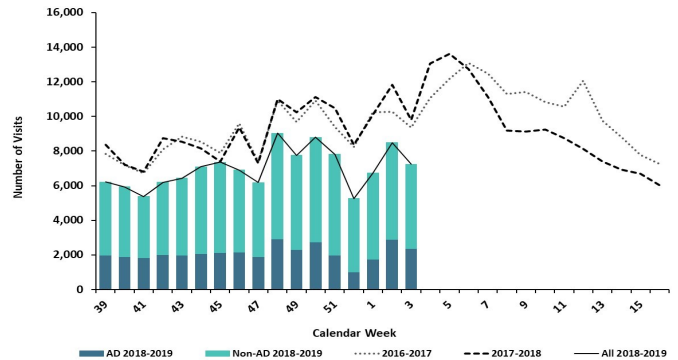
### FLUVIEW

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

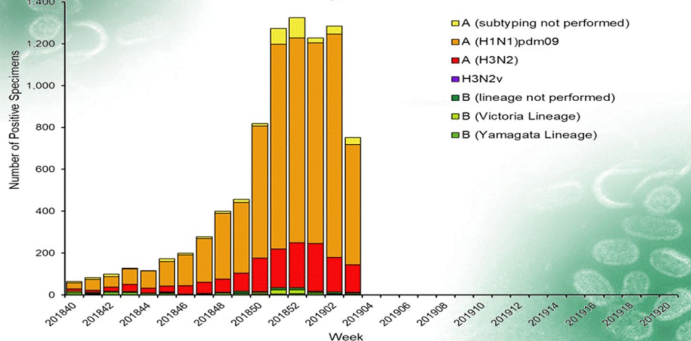


Nationwide in week 3, incidence of ILI activity was 3.3%, which is above the national baseline of 2.2%. Regionally, the percentage of ILI outpatient visits reported to the CDC ranged from 1.9% to 5.1%. At Army medical treatment facilities, incidence of ILI activity decreased by 18% when compared to the previous week. The majority of ILI encounters (67%) were among non-AD patients.

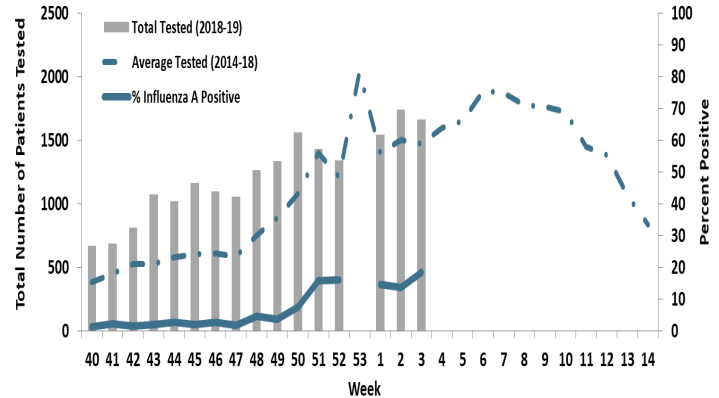
## LABORATORY RESPIRATORY SPECIMEN TESTING

### 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, 1284 specimens were tested and submitted to the CDC, of which 752 (58%) were positive. Influenza A accounted for 98% of the total positive specimens submitted to the CDC in week 3. In the Army population, 19% of 1666 specimens tested for influenza A were positive. 260 (84%) of the positive influenza A specimens were from non-Active Duty individuals. RHC-A and RHC-C reported the majority of positive influenza A specimens, with 125 (40%) and 160 (52%) of the total influenza A positive specimens, respectively.

		Week 52	Week 1	Week 2	Week 3	Season Total
Test Types Among Positive Influenza A Specimens	RAT	147	119	156	209	1102
	Culture	3	10	13	11	67
	PCR	65	95	68	88	419
Army MTF Laboratory Results, 2018-19	Influenza A	215	224	237	308	1588
	Influenza B	9	7	9	16	155
	Adenovirus	15	6	9	4	175
	Enterovirus	0	0	1	0	5
	Parainfluenza	8	6	6	3	219
	RSV	67	69	69	84	1073
	Negative	2421	2914	3113	2913	39145
<b>Total</b>	<b>2735</b>	<b>3226</b>	<b>3444</b>	<b>3328</b>	<b>42360</b>	

The number of positive respiratory specimens in week 3 (415) increased by 25% when compared to week 2 (331)\*. Influenza A accounted for 74% (308) of the positive specimens. RSV accounted for 84 (20%) of the positive specimens, influenza B for 16 (4%), adenovirus for 4 (1%), and parainfluenza for 3 (1%). The majority of positive respiratory tests (209) resulted from rapid antigen tests (RATs), followed by polymerase chain reaction (PCR, 88). There were 11 positive cultures in week 3.

\*93% of reporting locations submitted data in week 3.

**Locations providing week 3 laboratory data as of 23 January 2019:** Ft Belvoir, Ft Benning, Ft Bliss, Ft Bragg, 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 Meade, Ft Polk, Ft Riley, Ft Rucker, Ft Sam Houston, Ft Sill, Ft Stewart, Ft. Wainwright, Korea, Redstone Arsenal, Tripler, Walter Reed National Military Medical Center, and West Point Military Academy.

\*NOTE: Madigan AMC data was not received due to the switch from AHLTA/CHCS to 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. Belvoir	190	15.8	27	99	0	100	69	4.3	100
	Ft. Benning	125	22.4	34.4	125	0	6			
	Ft. Bragg	70	20	19.5			100			
	Ft. Drum	6	16.7	13.3			100			
	Ft. Eustis	22	22.7	22.2						
	Ft. Gordon	51	7.8	23.6	50	0	9.3			100
	Ft. Jackson	58	10.3	27.6	58	1.7	5.3			
	Ft. Knox	13	38.5	22.2	13	0	11.1			
	Ft. Lee	30	13.3	4.3			100			
	Ft. Meade	1	100	4						
	Ft. Rucker	4	0	60	4	0	0			
	Ft. Sam Houston	255	17.3	37.6	255	3.5	13.1			100
	Ft. Stewart	84	11.9	34.7	83	0	5.3			
	Redstone Arsenal	23	39.1	0	23	0	0			
West Point	30	26.7	8.3	13	0	100			100	
RHCC	Ft. Bliss	178	19.7	26	99	0	6.7	39	2.6	1.8
	Ft. Carson	94	18.1	19.5			100			
	Ft. Hood	138	18.1	31.8	137	0.7	6.7	8	0	
	Ft. Huachuca	15	13.3	0	18	11.1	5			
	Ft. Irwin	42	47.6	39.7	42	2.4	5.1			
	Ft. Leavenworth	55	12.7	22.3	55	1.8	6.3			
	Ft. Leonard Wood	33	3	32.9	33	0	3.9			100
	Ft. Polk	35	5.7	16.7			100			
	Ft. Riley	65	7.7	20	58	0	6.1			
Ft. Sill	28	7.1	29.8	1	100	100				
RHCP	Ft. Wainwright	33	12.1	10	33	0	6.7			
	Korea	46	26.1	31.7	29	0	10.2	28	0	6.1
	Tripler Army Medical Center	65	10.8	11.1	41	0	14.1	41	0	3.9

Region	Installation	Enterovirus			Parainfluenza			RSV		
		No. Tested	% Positive	Baseline % Pos.	No. Tested	% Positive	Baseline % Pos.	No. Tested	% Positive	Baseline % Pos.
RHCA	Ft. Belvoir				70	1.4	100	117	17.9	63.6
	Ft. Drum									33.3
	Ft. Gordon						100			100
	Ft. Sam Houston						100			100
	Ft. Stewart							16	12.5	5.6
	West Point						100			100
RHCC	Ft. Bliss							104	11.5	13.8
	Ft. Carson							34	41.2	25.9
	Ft. Hood				8	0		55	12.7	70.2
	Ft. Leavenworth							12	25	25
	Ft. Leonard Wood						100			
	Ft. Polk							14	14.3	21.4
	Ft. Riley							28	35.7	13.8
Ft. Sill						100	4	50	33.3	
RHCP	Ft. Wainwright							32	12.5	0
	Korea			0	29	3.4	0	29	20.7	9.2
	Tripler Army Medical Center	41	0	0	42	2.4	2.7	1	100	100

No.: Number of specimens tested during MMWR week 3, 2019.

% Pos.: Percentage of positive specimens reported during MMWR week 3, 2019.

Baseline % Pos.: Percentage of positive specimens reported in MMWR week 3 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.





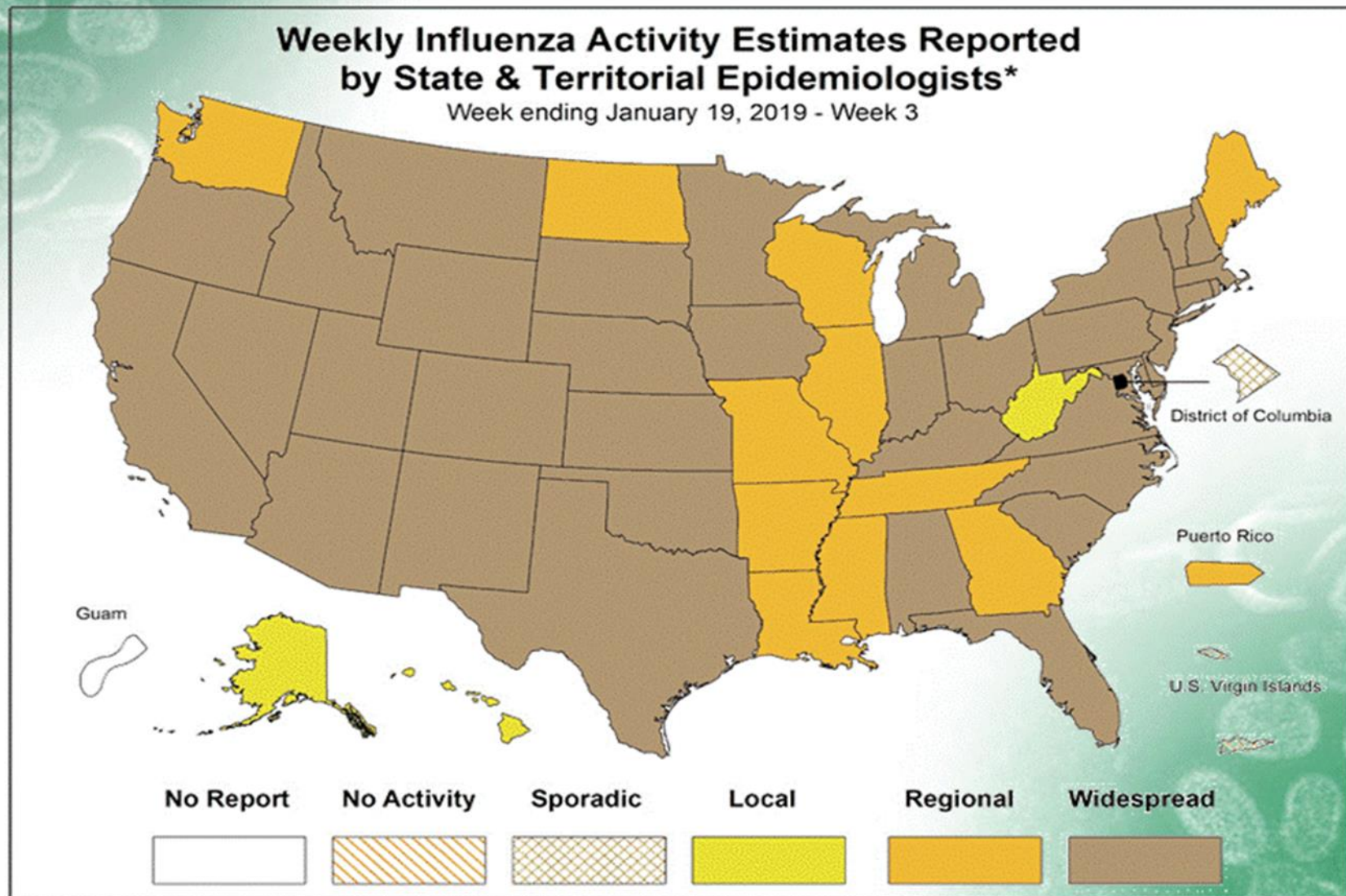
# FLUVIEW

A Weekly Influenza Surveillance Report Prepared by the Influenza Division



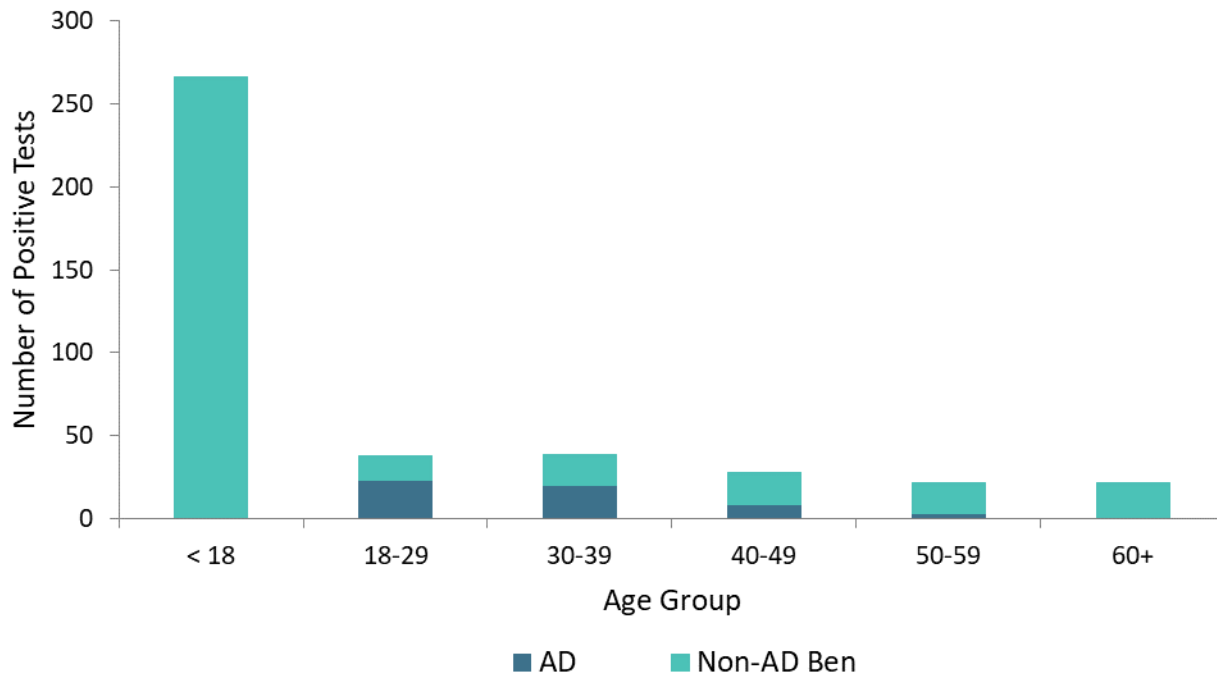
## Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists\*

Week ending January 19, 2019 - Week 3



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

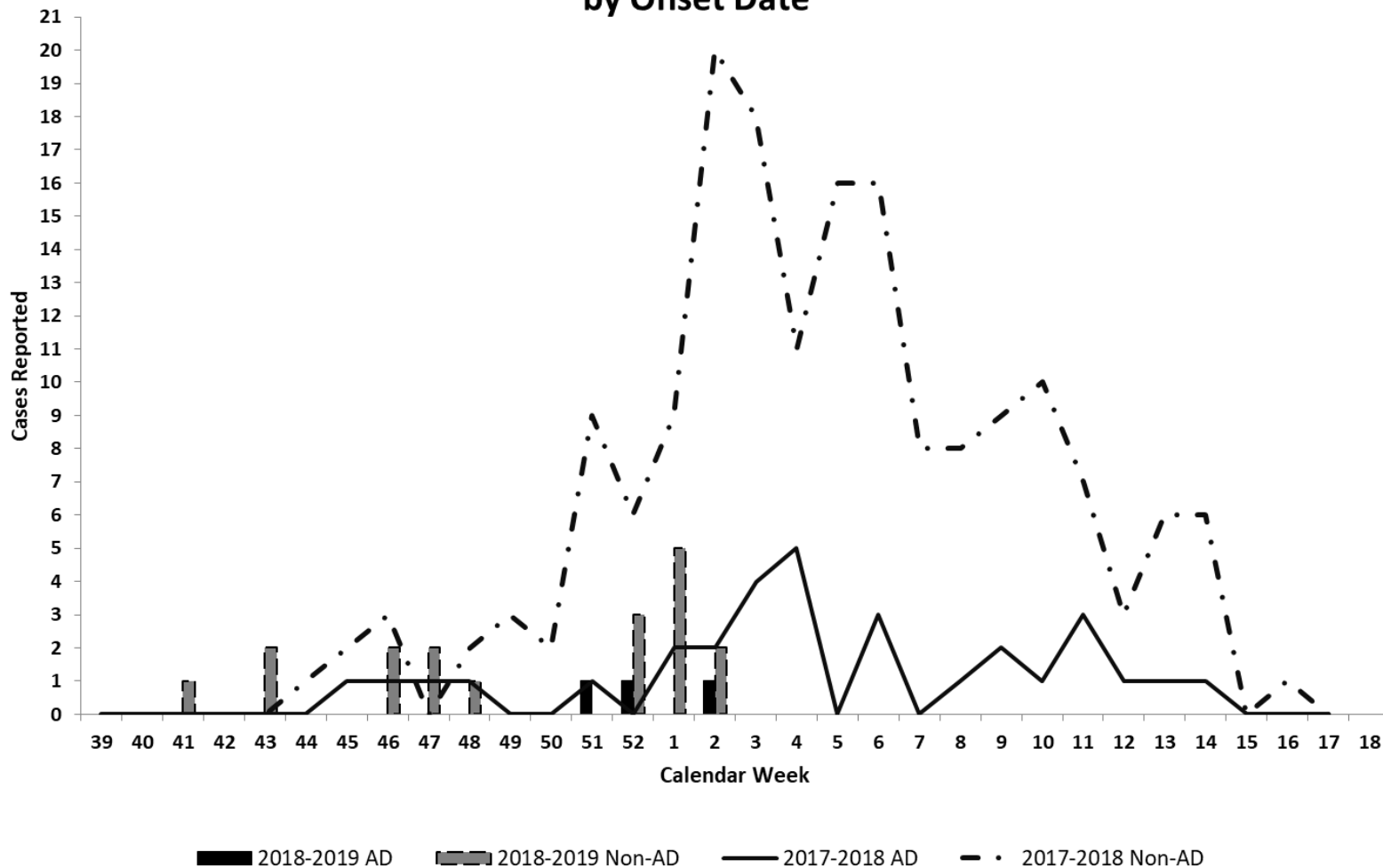
### Positive Respiratory Specimen Results from Army MTFs by Age Group and Beneficiary Status, 2018-2019 Influenza Season



Week 3			
Age Group	AD	Non-AD Ben	Season Total
< 18	0	266	<b>806</b>
18-29	23	15	<b>195</b>
30-39	20	19	<b>200</b>
40-49	9	19	<b>145</b>
50-59	3	19	<b>114</b>
60+	0	22	<b>128</b>
<b>Total</b>	<b>55</b>	<b>360</b>	<b>1588</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 23 January 2019.

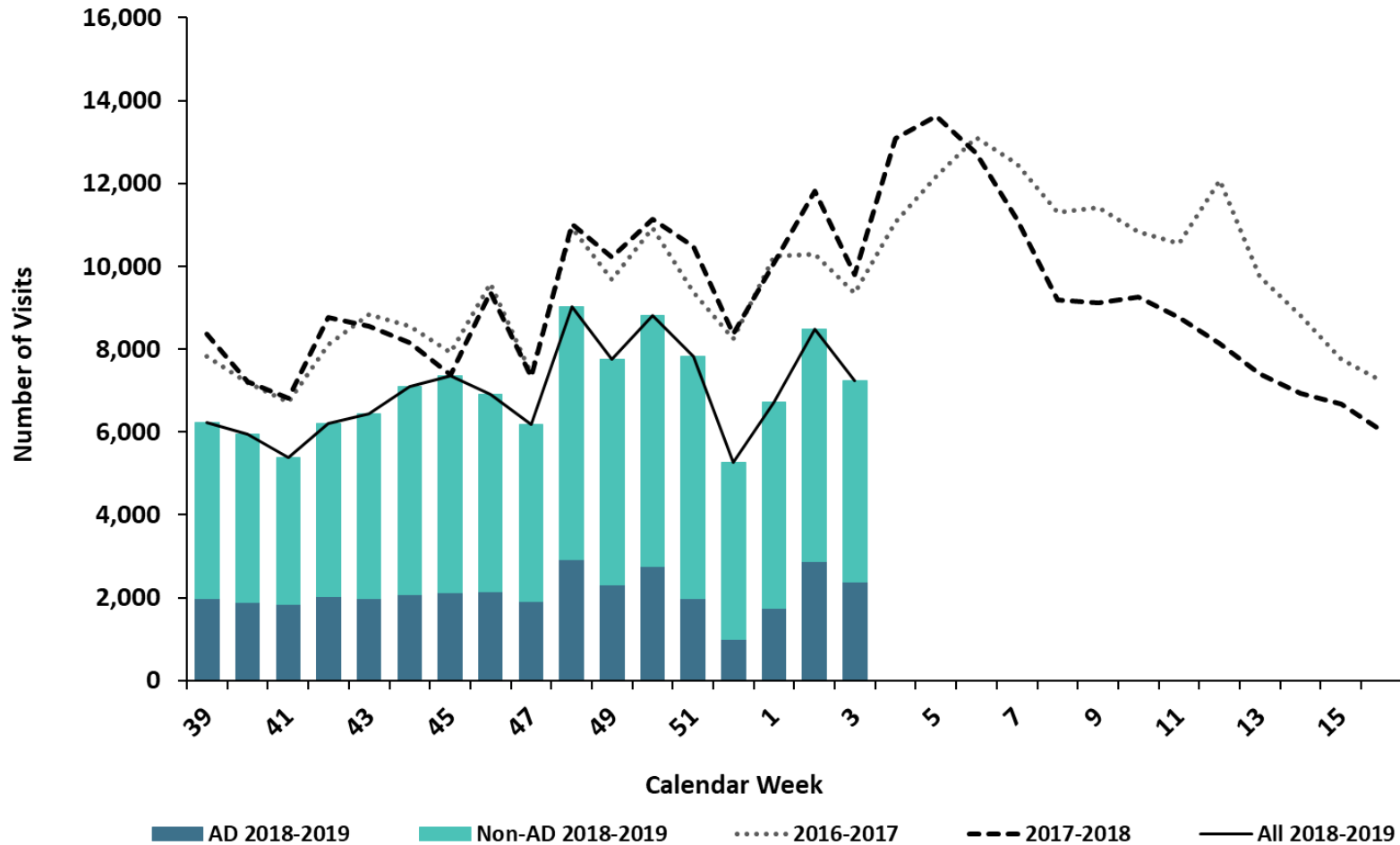






## ESSENCE Weekly Outpatient Clinic Visits for Influenza-like Illness

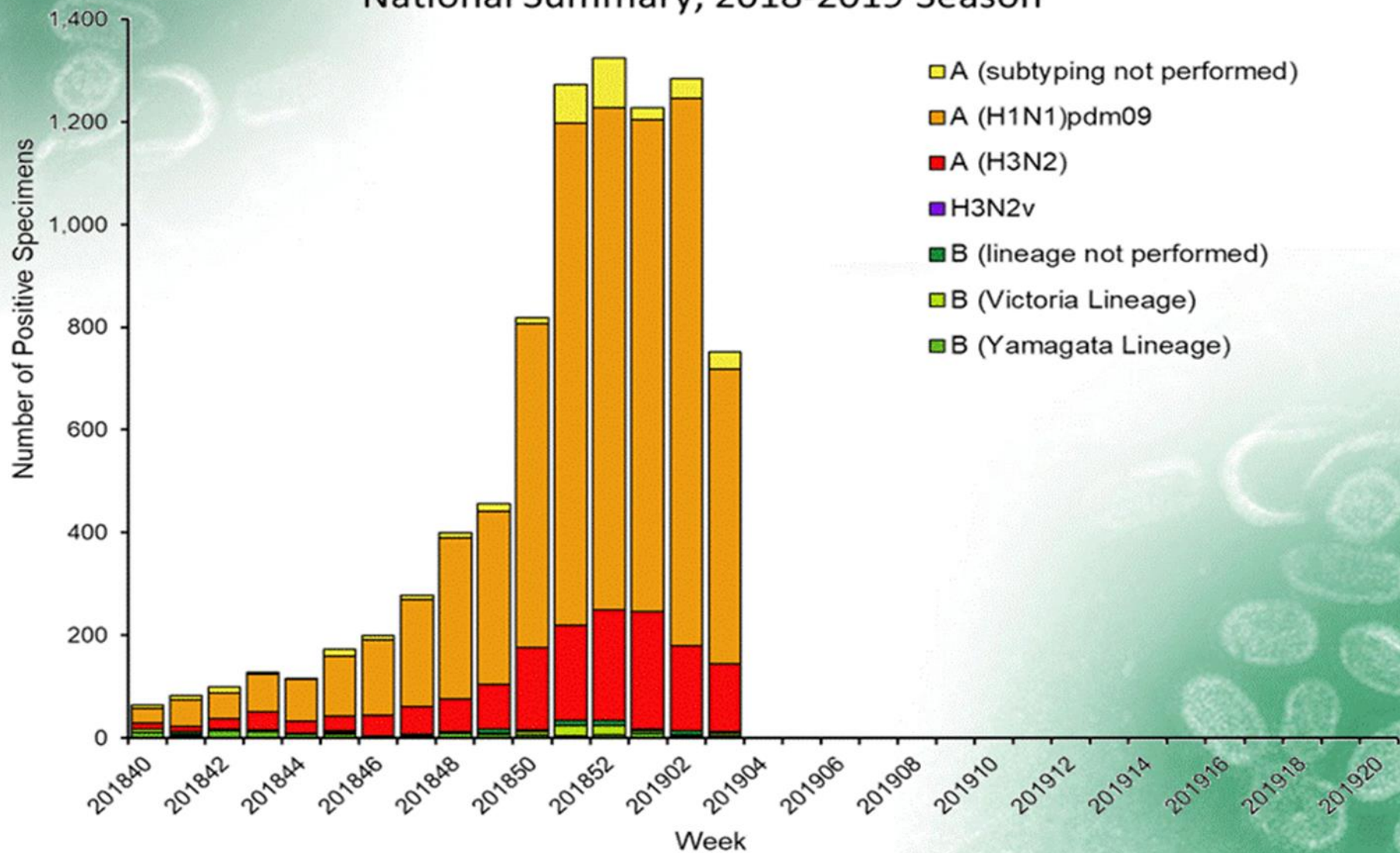
*Army MTFs, All Services, 2016-2019*



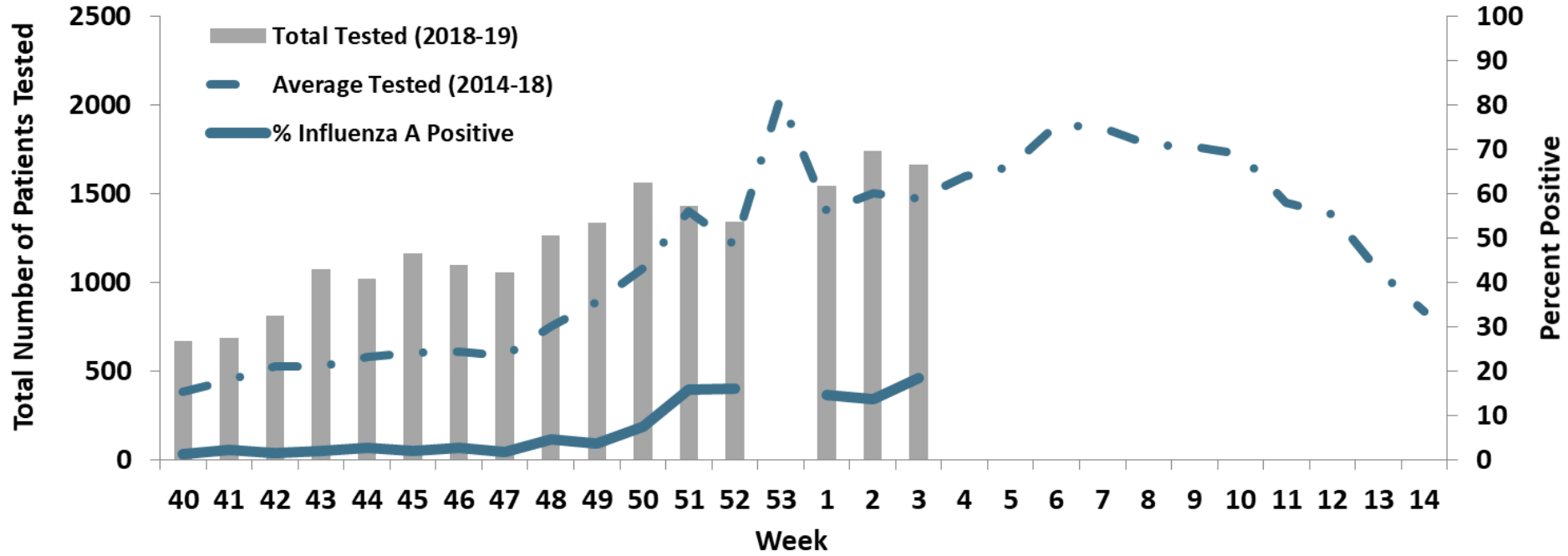
*Clinic visits for ILI are obtained from ESSENCE. Data as of 24 January 2019.*

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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