

U.S. Army Public Health Center

Army Influenza Activity Report

Week ending 2 February 2019 (week 5)

Influenza Vaccination Coverage*

As of 6 February 2019

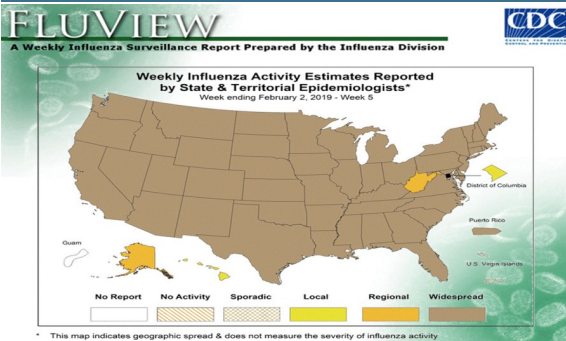
N/A	DoD
96%	Army Active Duty
90%	Army Guard
80%	Army Reserve

*Data Source: MEDPROS, ASIMS, MRRS

SUMMARY

There was a sharp increase (40%) in the number of positive respiratory specimens from surveillance week 4 to surveillance week 5; there were 610 positive specimens in week 4 and 856 in week 5. In week 5, the number of positive influenza A specimens increased by 66%, with 751 positive specimens reported during week 5 compared to the 451 reported during week 4. Influenza A continues to be the most frequently resulted respiratory pathogen, accounting for 88% of all positive specimens. Respiratory syncytial virus (RSV) activity decreased by 41%, accounting for 71 (8%) of the positive specimens in week 5. Nine influenza-associated hospitalizations with an onset date in week 5 were reported in the Disease Reporting System internet. Of those nine cases, two were Active Duty (AD) Service Members, bringing the total number of AD hospitalizations to 11 for the season.

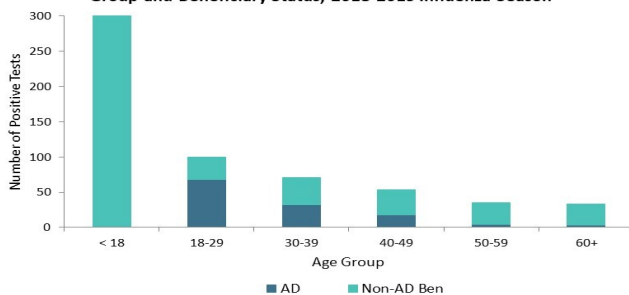
GEOGRAPHIC SPREAD



In the general U.S. population, widespread influenza activity was reported by 47 states. Regional influenza activity was reported by two states (Alaska and West Virginia), local activity was reported by the District of Columbia and Hawaii, and sporadic activity was reported by the U.S. Virgin Islands. Guam did not report to the Centers for Disease Control and Prevention (CDC) in week 5.

DEMOGRAPHICS

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

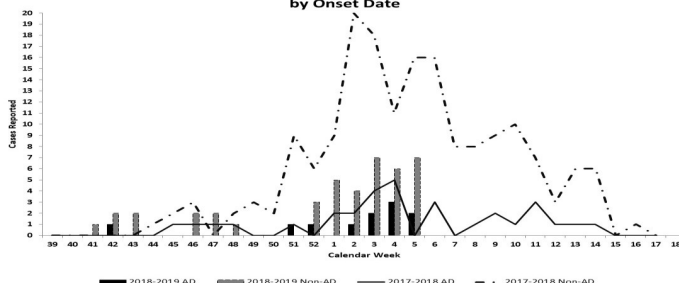


Active Duty (AD): In week 5, 15% (n=125) of the total positive specimens (n=856) were among AD Service Members. Fifty-four percent (n=68) of the positive specimens were from individuals in the 18-29 age group.

Non-AD: In week 5, 85% (n=731) of the total positive specimens were among non-AD beneficiaries. The majority of the positive specimens, 77% (n=564), were among individuals <18 years old.

INFLUENZA-ASSOCIATED HOSPITALIZATIONS

Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Date



Nine influenza-associated hospitalizations, with an onset date in week 5, were reported in DRSi. Of these nine cases, two were AD Service Members who were vaccinated. To date, there have been 53 influenza-associated hospitalizations this season. This is in contrast to the 120 cases reported during the same time period in the 2017-2018 influenza season.

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

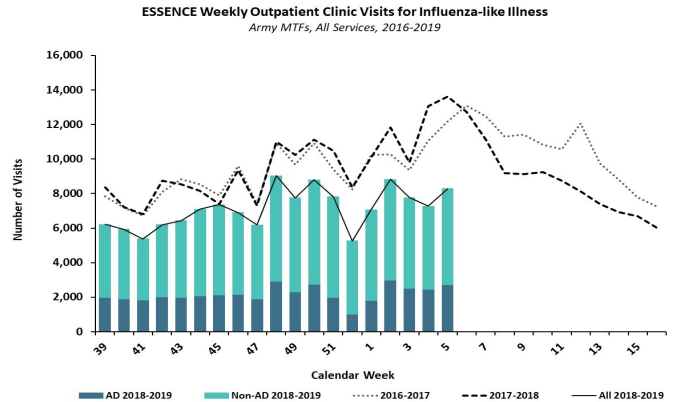
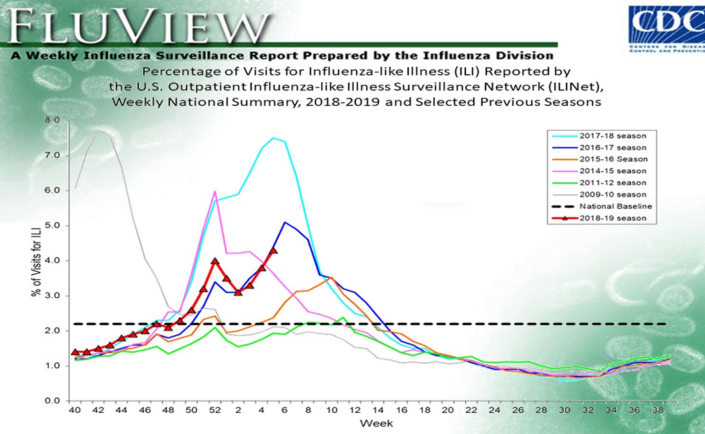
Additional Resources: [Army Influenza Reports](#); [ARD Reports](#); [AFHSB Influenza Reports](#); [NHRC FRI Reports](#); [DoD Pandemic Influenza Watchboard](#); [CDC](#)

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

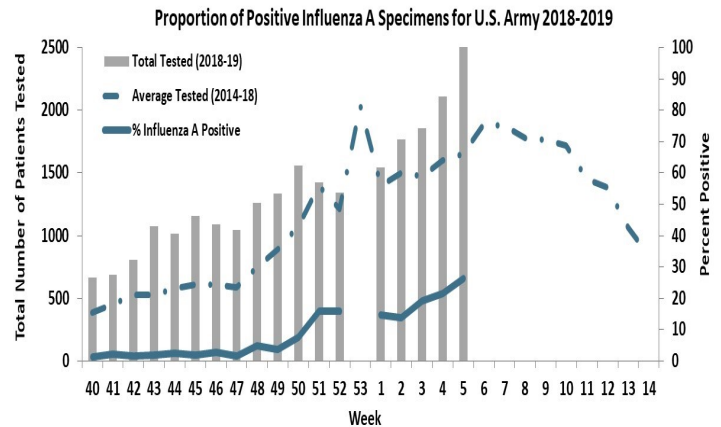
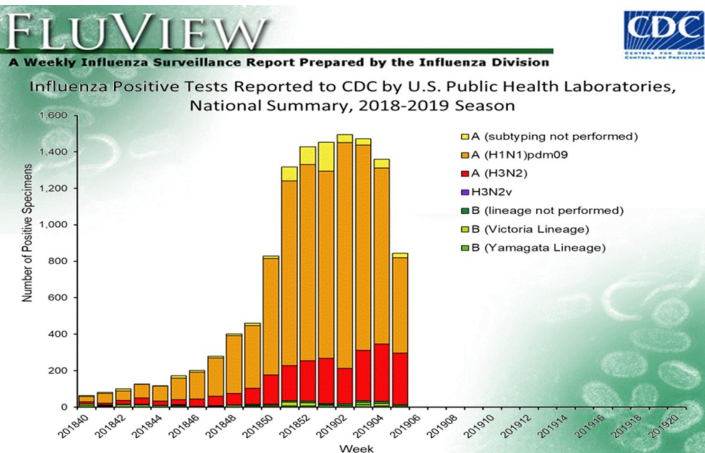
ILI ACTIVITY - UNITED STATES

ILI ACTIVITY - ARMY



Nationwide in week 5, incidence of ILI activity was 4.3%, which is above the national baseline of 2.2%. Regionally, the percentage of ILI outpatient visits reported to the CDC ranged from 2.5% to 7.6%. At Army medical treatment facilities, incidence of ILI activity increased by 14% when compared to the previous week. When compared to week 5 of the 2017-2018 season, there were 39% fewer ILI outpatient visits.

LABORATORY RESPIRATORY SPECIMEN TESTING



Nationwide, 1442 specimens were tested and submitted to the CDC during week 5, of which 829 (57%) were positive for influenza A. In the Army population, 117 (16%) of the 751 positive influenza A specimens were among AD Service Members. The remaining 634 (84%) positive specimens were among non-AD population. The majority of the influenza A-positive specimens continue to be reported from RHC-C and RHC-A, with 46% (n=342) and 43% (n=324) cases, respectively. RHC-P reported 10% (n=76) of the influenza A-positive specimens during week 5.

		Week 2	Week 3	Week 4	Week 5	Season Total
Test Types Among Positive Influenza A Specimens	RAT	156	218	285	470	1866
	Culture	13	30	15	8	109
	PCR	76	107	151	273	873
Army MTF Laboratory Results, 2018-19	Influenza A	245	355	451	751	2848
	Influenza B	9	16	11	18	184
	Adenovirus	13	15	18	14	222
	Enterovirus	1	0	0	0	5
	Parainfluenza	6	6	10	2	234
	RSV	72	99	120	71	1283
	Negative	3183	3286	3666	4385	47493
Total	3529	3777	4276	5241	52269	

The number of positive respiratory specimens increased by 40% from week 4 to week 5; there were 610 positive specimens in week 4 and 856 in week 5. Influenza A continues to be the most frequently resulted pathogen, accounting for 88% (n=751) of the positive specimens. Although an overall increasing trend in the number of RSV specimens between weeks 2 and 5 was noted, the number of RSV-positive specimens in week 5 was markedly low (n=71). The number of RSV-positive specimens also decreased by 41% from week 4 to week 5.

Locations providing week 5 laboratory data as of 6 February 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 Meade, Ft Polk, Ft Riley, Ft Rucker, Ft Sam Houston, Ft Sill, Ft Stewart, Ft. Wainwright, Landstuhl, Korea, Redstone Arsenal, Tripler Army Medical Center, Walter Reed National Military Medical Center, and West Point Military Academy.

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	239	19.2	25.4	118	0.8	100	61	4.9	100
	Ft. Benning	139	22.3	27.8	139	0	7.4			
	Ft. Bragg	77	26	22.3			100			
	Ft. Campbell	121	19	32.2	121	0	6.1			100
	Ft. Drum	7	14.3	12.5			100			
	Ft. Eustis	22	31.8	22.1			100			
	Ft. Gordon	78	15.4	26.3	78	0	15.9			100
	Ft. Jackson	67	16.4	28.9	65	0	5.6			
	Ft. Knox	24	20.8	15.8	24	4.2	10.5			
	Ft. Lee	21	4.8	8.8			100			
	Ft. Meade	2	100	18.9						
	Ft. Rucker	4	25	33.3	4	0	0			
	Ft. Sam Houston	278	23.7	30.6	279	1.8	12.7			100
	Ft. Stewart	70	17.1	29.5	70	1.4	5.6			100
Redstone Arsenal	30	40	0	30	0	0				
West Point	32	21.9	26	13	0	100	1	100	100	
RHCC	Ft. Bliss	204	14.7	22.3	135	0	21.8	40	10	4.3
	Ft. Carson	100	16	16.1			100			
	Ft. Hood	121	14	32.8	120	0.8	6.6	10	10	
	Ft. Huachuca	14	7.1	8.6	20	5	5.6			
	Ft. Irwin	71	33.8	36	72	0	1.8			
	Ft. Leavenworth	41	31.7	16.9	41	0	9.8			
	Ft. Leonard Wood	33	6.1	27.8	33	0	5.3			100
	Ft. Polk	46	8.7	26.1			100			
RHCE	Ft. Riley	70	10	17.2	63	0	8.8			
	Ft. Sill	28	7.1	27.9			100			
RHCP	Landstuhl Regional Medical Center	41	9.8	16.5	37	0	32.9	37	2.7	2.1
RHCP	Ft. Wainwright	51	39.2	16	51	0	0			
	Korea	46	26.1	35.3	23	0	4.6	23	4.3	0.9
	Tripler Army Medical Center	71	7	10.6	51	2	11.3	50	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				64	3.1	100	130	24.6	35.3
	Ft. Campbell						100			100
	Ft. Drum									50
	Ft. Gordon						100			100
	Ft. Sam Houston			100						100
	Ft. Stewart							18	5.6	14.3
	West Point						100			100
RHCC	Ft. Bliss							134	9.7	26.1
	Ft. Carson							35	40	22.2
	Ft. Hood				10	0		53	15.1	67.6
	Ft. Leavenworth							9	11.1	18.2
	Ft. Polk							13	7.7	60
	Ft. Riley							31	25.8	10
RHCE	Ft. Sill							5	20	23.8
	Landstuhl Regional Medical Center				40	7.5	0.7	49	22.4	10.3
RHCP	Ft. Wainwright							48	12.5	20
	Korea			0	23	0	0	22	9.1	7.4
	Tripler Army Medical Center	50	0	2.1	51	2	3.1	3	100	100

No.: Number of specimens tested during MMWR week 5 2019.

% Pos.: Percentage of positive specimens reported during MMWR week 5, 2019.

Baseline % Pos.: Percentage of positive specimens reported in MMWR week 5 during influenza seasons from September 2012 - May 2018.

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

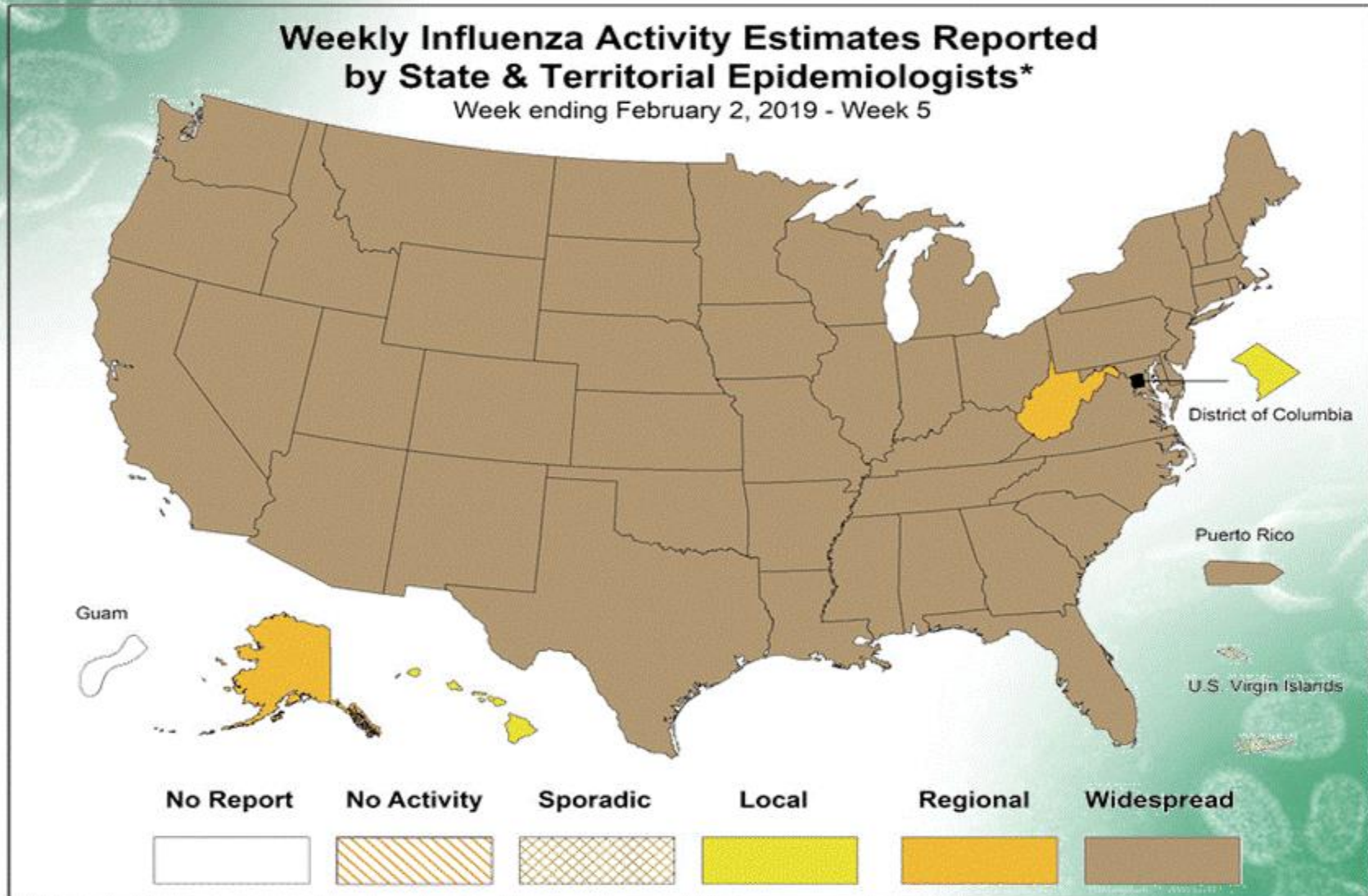
High baseline percent positive values may be due to low numbers of specimens tested.

FLUVIEW

A Weekly Influenza Surveillance Report Prepared by the Influenza Division

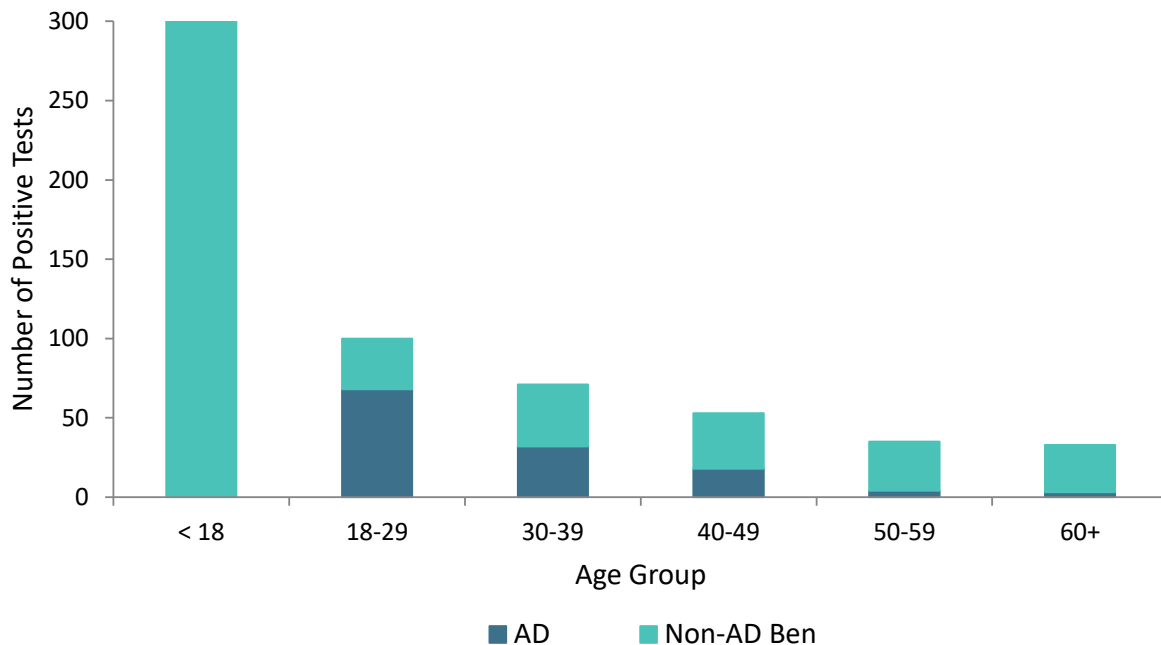
Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists*

Week ending February 2, 2019 - Week 5



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

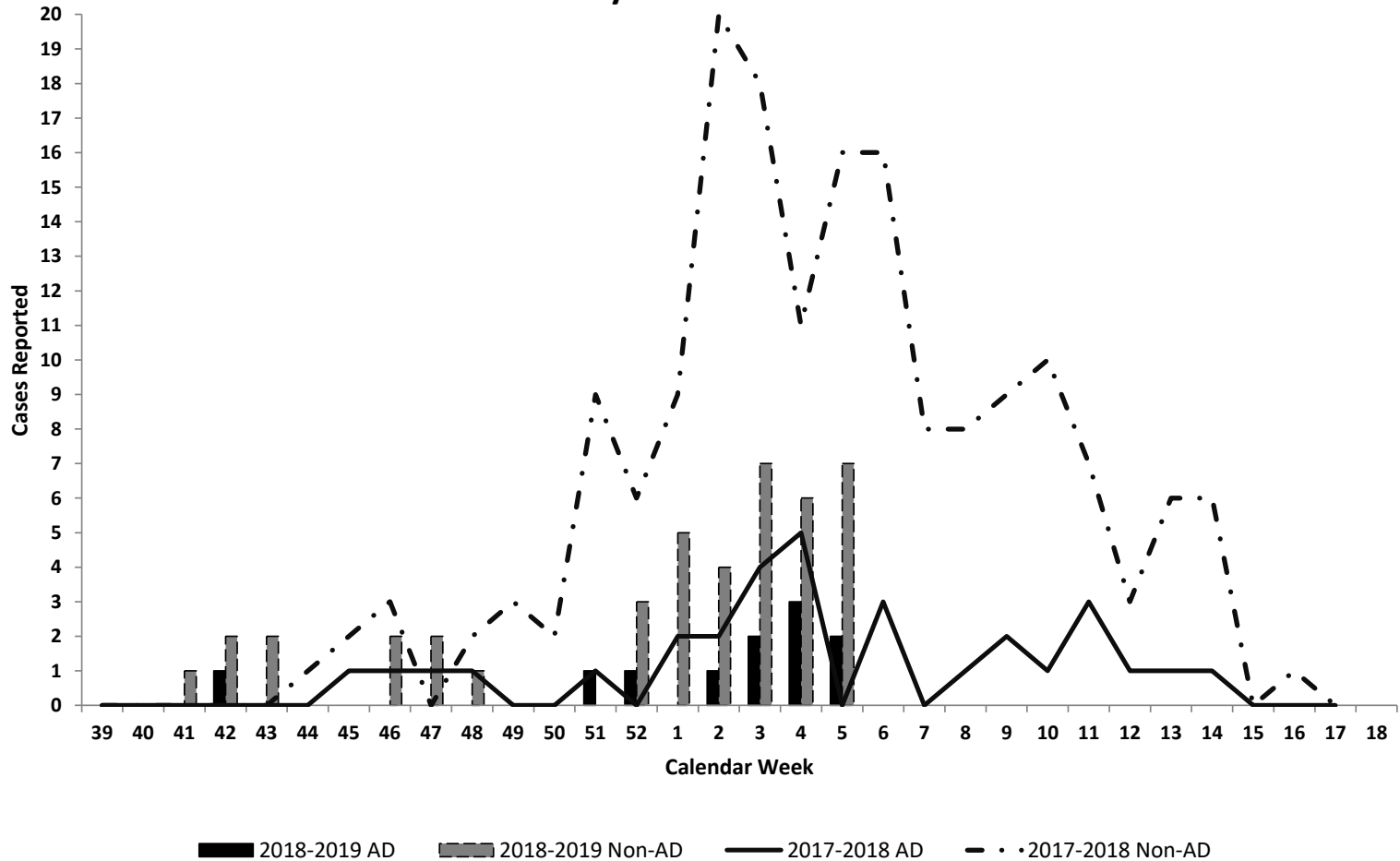
Positive Respiratory Specimen Results from Army MTFs by Age Group and Beneficiary Status, 2018-2019 Influenza Season



Week 5			
Age Group	AD	Non-AD Ben	Season Total
< 18	0	564	1585
18-29	68	32	345
30-39	32	39	318
40-49	18	35	246
50-59	4	31	170
60+	3	30	184
Total	125	731	2848



Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Date

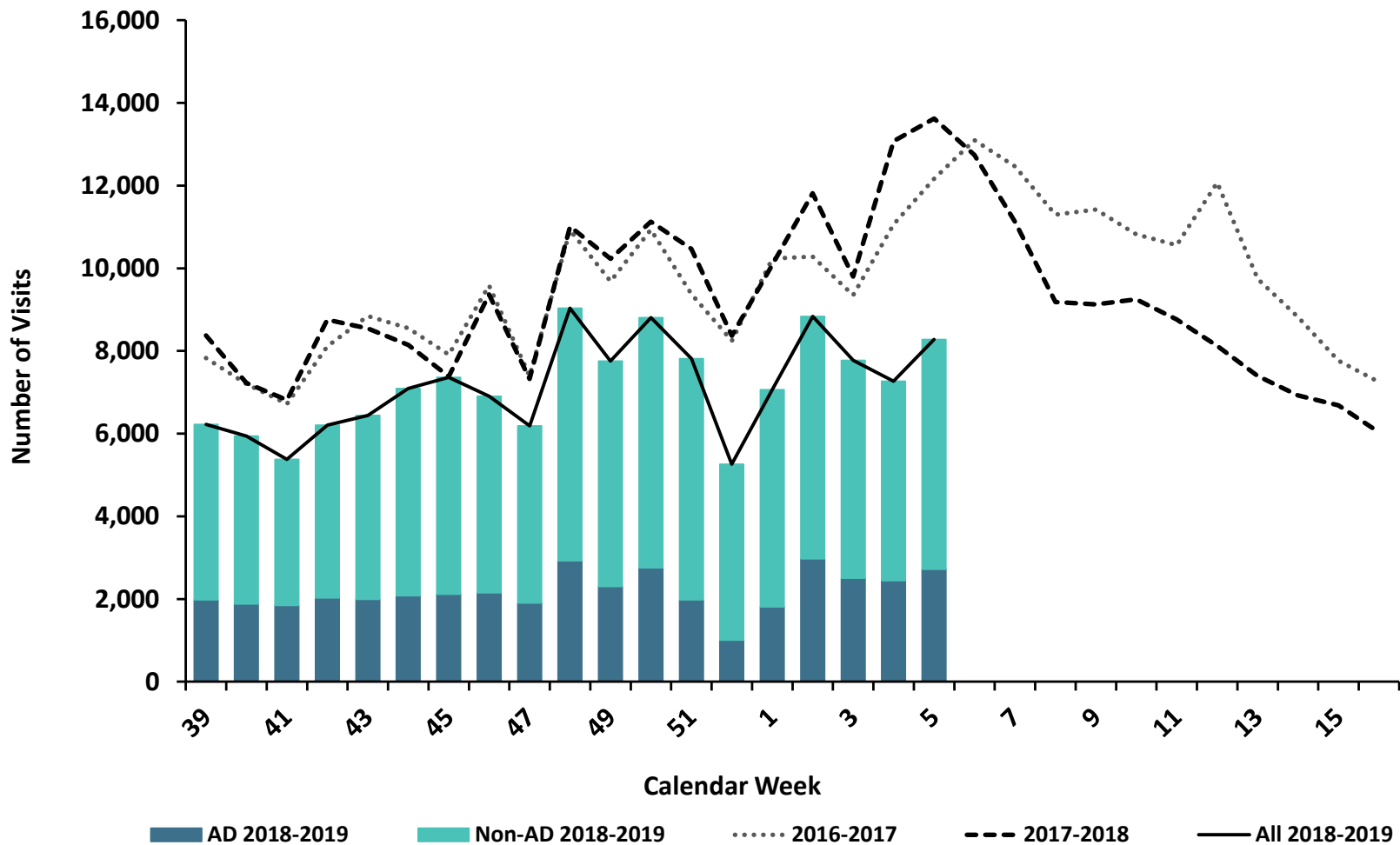


Note: Reportable influenza cases are defined as only cases that have been hospitalized and are under the age of 65. See [Armed Forces Reportable Medical Events Guidelines and Case Definitions](#) for more information.

Data as of 7 February 2019.

ESSENCE Weekly Outpatient Clinic Visits for Influenza-like Illness

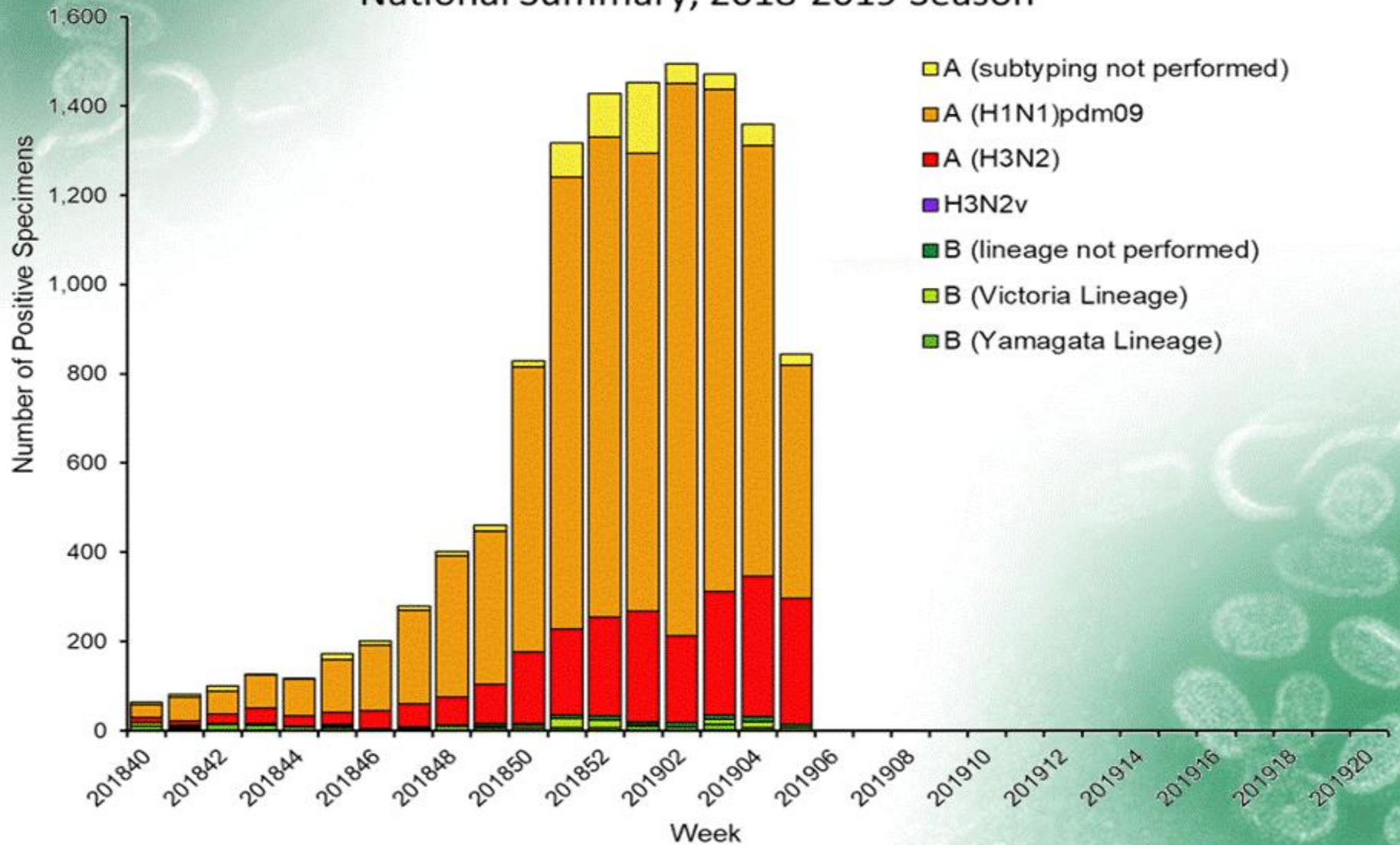
Army MTFs, All Services, 2016-2019



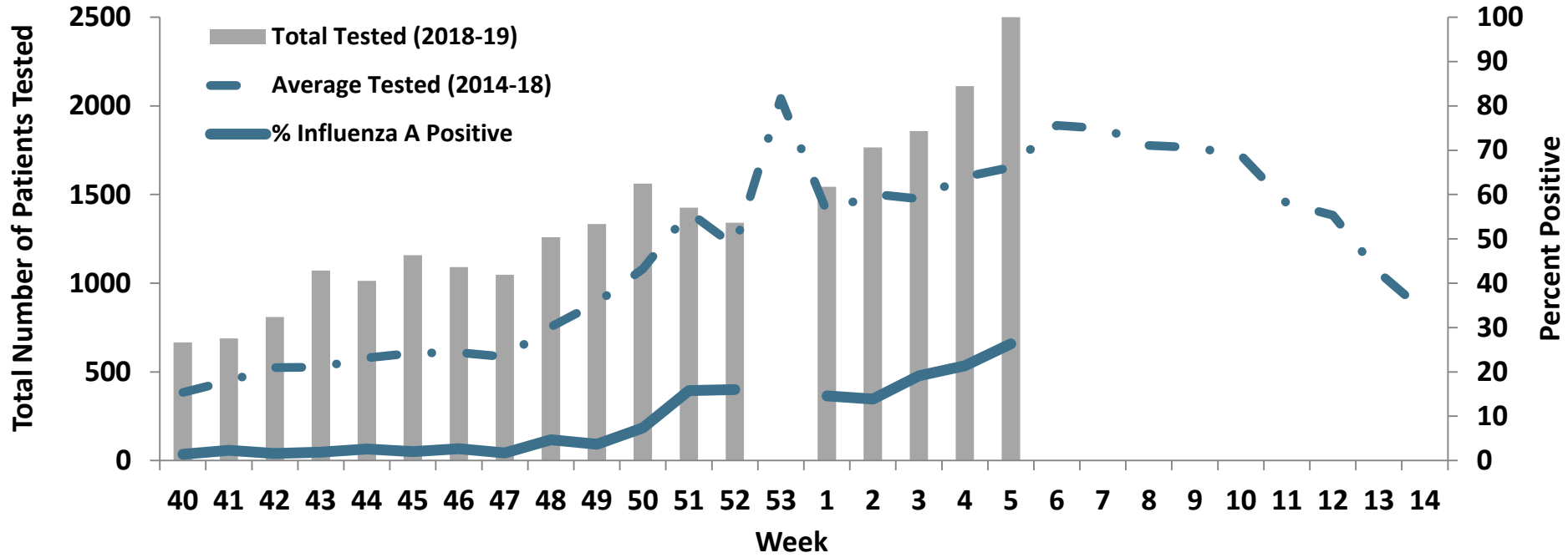
Clinic visits for ILI are obtained from ESSENCE. Data as of 6 February 2019.

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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