

U.S. Army Public Health Center

Army Influenza Activity Report

Week ending 16 February 2019 (week 7)

Influenza Vaccination Coverage*

As of 21 February 2019

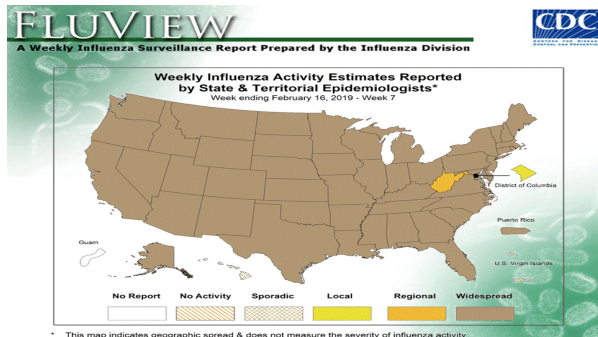
N/A	DoD
97%	Army Active Duty
90%	Army Guard
82%	Army Reserve

*Data Source: MEDPROS, ASIMS, MRRS

SUMMARY

In week 7, there was a 6% decrease in the number of positive respiratory specimens when compared to surveillance week 6. There were 1291 positive specimens in week 6 and 1214 in week 7. A 53% increase in the number of positive influenza B specimens was noted in week 7; 17 positive specimens were reported in week 6 and 26 were reported in week 7. Five influenza-associated hospitalizations with an onset date in week 7 were reported in the Disease Reporting System Internet, with one case being an Active Duty Service Member. Outpatient visits for influenza-like illnesses (ILIs) reported in ESSENCE were down 6% in week 7 when compared to week 6. When compared to week 7 from the 2017-2018 season, there were 19% fewer outpatient ILI visits in this season's week 7.

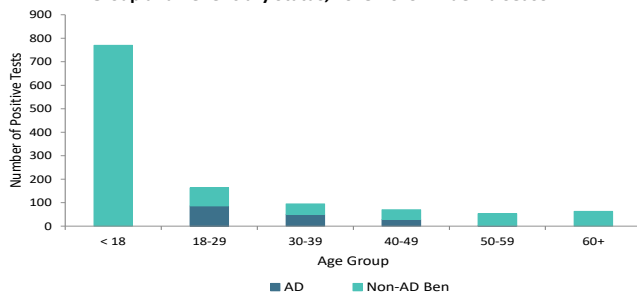
GEOGRAPHIC SPREAD



In the general U.S. population, widespread influenza activity was reported by Puerto Rico and 48 states. Regional influenza activity was reported by West Virginia, local activity was reported by the District of Columbia, and sporadic activity was reported by the U.S. Virgin Islands, and Hawaii. Guam did not report to the Centers for Disease Control and Prevention (CDC) in week 7.

DEMOGRAPHICS

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

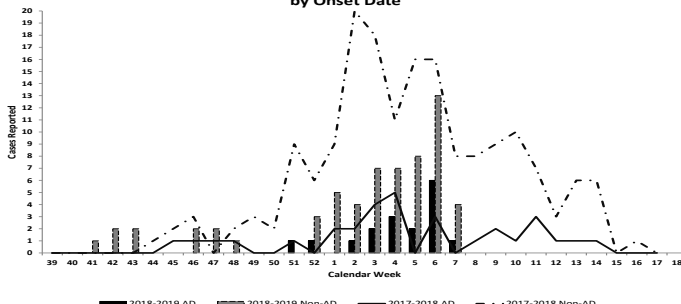


Active Duty (AD): In week 7, 14% (n=168) of the total positive specimens (n=1214) were among AD Service Members. This is a 2% increase when compared to the 165 positive specimens in AD Service Members during week 6. Fifty-one percent (n=86) of the positive specimens were from individuals in the 18-29 age group.

Non-AD: The majority of the positive specimens continue to result from the non-AD population. In week 7, this group accounted for 86% (n=1046) of the total positives. Individuals younger than 18 years were disproportionately affected; they accounted for 74% (n=770) of the positive respiratory specimens in week 7.

INFLUENZA-ASSOCIATED HOSPITALIZATIONS

Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Date



Five influenza-associated hospitalizations, with an onset date in week 7, were reported in DRSi. One case was a vaccinated, AD Service Member. To date, there have been 78 influenza-associated hospitalizations this season; 37% (n=29) of the cases were vaccinated.

*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

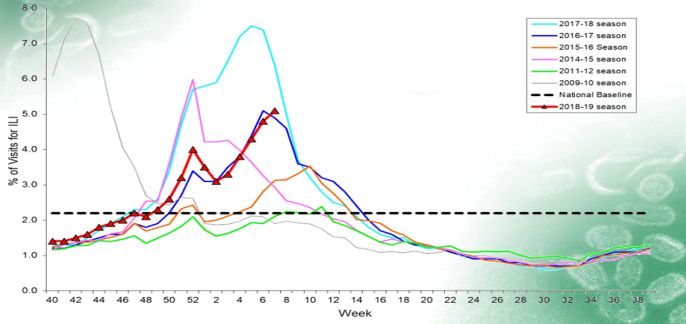
Questions?
[Email APHC DEP](#)
410-436-7605

ILI ACTIVITY - UNITED STATES

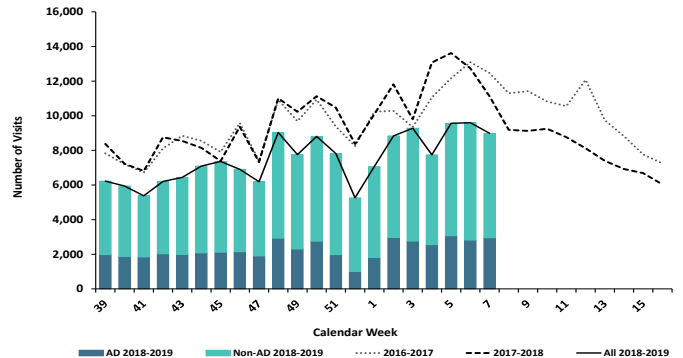
ILI ACTIVITY - ARMY

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



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

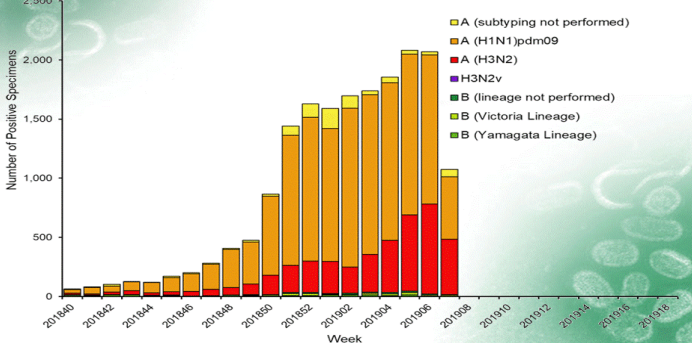


Nationwide in week 7, incidence of ILI activity was 5.1%, which is above the national baseline of 2.2%. Regionally, the percentage of ILI outpatient visits reported to the CDC ranged from 2.5% to 10.1%. At Army medical treatment facilities, overall incidence of ILI activity decreased by 6% when compared to the previous week. The AD population experienced a 5% increase when compared to week 6. When compared to week 7 of the 2017-2018 season, there were 19% fewer ILI outpatient visits.

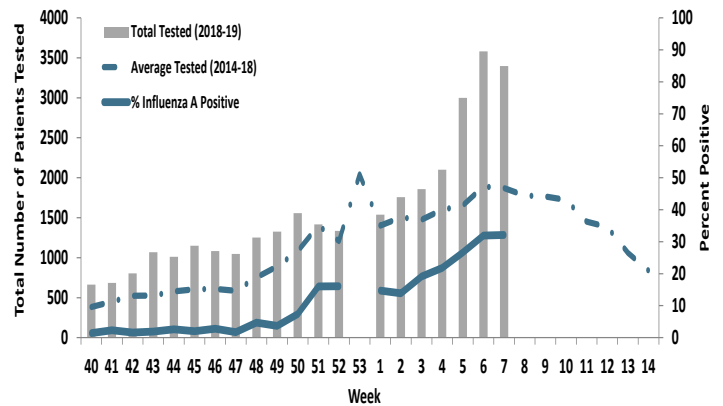
LABORATORY RESPIRATORY SPECIMEN TESTING

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, 98% of specimens tested positive for influenza A, and 2% were positive for influenza B in week 7. Among Army medical treatment facilities (MTFs), the majority of influenza A-positive specimens continue to be reported from facilities in RHC-C and RHC-A, with 48% (n=519) and 37% (n=406) specimens, respectively. RHC-E continues to experience the least influenza A activity with 3% (n=29) of the specimens being reported from this region.

		Week 4	Week 5	Week 6	Week 7	Season Total
Test Types Among Positive Influenza A Specimens	RAT	275	465	717	643	3211
	Culture	27	39	23	9	184
	PCR	155	293	403	438	1738
Army MTF Laboratory Results, 2018-19	Influenza A	457	797	1143	1090	5133
	Influenza B	11	18	17	26	227
	Adenovirus	23	19	17	10	259
	Enterovirus	0	0	0	0	5
	Parainfluenza	11	8	5	7	253
	RSV	122	93	109	81	1497
	Negative	3622	4699	5133	4785	57495
	Total	4246	5634	6424	5999	64869

The number of positive respiratory specimens decreased by 6%* from week 6 to week 7; there were 1291 positive specimens in week 6 and 1214 in week 7. The number of positive influenza A specimens decreased by 5%, with 1090 positive specimens in week 7 compared to 1143 in week 6. The number of positive RSV samples decreased by 26% when comparing the number of positives in week 6 (109) to that of week 7 (81). The rapid antigen test (RAT) is still the diagnostic method of choice, accounting for 59% (n=643) of all tests conducted.

*87% of reporting locations submitted data in week 7.

Locations providing week 7 laboratory data as of 20 February 2019: Ft Belvoir, Ft Bliss, Ft Bragg, Ft Campbell, Ft Carson, Ft Drum, 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, Korea, Redstone Arsenal, Tripler Army Medical Center, and Walter Reed National Military Medical Center.

*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	351	29.9	21.1	175	0.6	100	82	7.3	100
	Ft. Benning	36	22.2	18.8	36	0	14.9			
	Ft. Bragg	180	40.6	21			100			
	Ft. Campbell	187	29.4	27.2	187	0	6.3			100
	Ft. Drum	5	0	50			100			
	Ft. Eustis			38.3			100			
	Ft. Gordon	63	17.5	18.3	63	0	21.2			100
	Ft. Jackson	131	23.7	20.6	130	1.5	10.4			
	Ft. Knox	39	23.1	9.1	38	0	6.1			
	Ft. Lee	90	28.9	10.1	3	100	100			
	Ft. Meade			28.8						
	Ft. Rucker	24	12.5	18.8	24	0	4.5			
	Ft. Sam Houston	542	37.3	14	538	1.3	21			100
	Ft. Stewart	205	29.8	21	206	1	7.5			
Redstone Arsenal	40	37.5	24.4	39	0	7.1				
West Point Military Academy	12	75	23.8			100				
RHCC	Ft. Bliss	323	24.1	15.5	200	1	69.7	20	5	3.1
	Ft. Carson	179	20.1	10			100			
	Ft. Hood	180	26.7	24.2	178	0	6.5	15	20	
	Ft. Huachuca	16	12.5	7.4	16	0	6.7			
	Ft. Irwin	51	29.4	14.9	52	0	3.4			
	Ft. Leavenworth	97	33	21.8	97	4.1	11.4			
	Ft. Leonard Wood	86	30.2	16.1	87	2.3	9.4			100
	Ft. Polk	59	18.6	7.4			100			
	Ft. Riley	127	25.2	9.2	109	0	8.7			
Ft. Sill	115	32.2	16.8	2	100	100				
RHCE	Landstuhl Regional Medical Center	110	33.6	13.9	73	0	15.3	73	0	1.2
RHCP	Ft. Wainwright	156	60.3	9.8	156	0	1.9			
	Korea	75	37.3	34.3	36	2.8	8	36	0	0
	Tripler Army Medical Center	113	5.3	9	66	0	7.8	66	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				83	1.2	100	183	8.2	35
	Ft. Campbell						100			100
	Ft. Drum						100			0
	Ft. Gordon						100			100
	Ft. Sam Houston									100
	Ft. Stewart							23	34.8	0
RHCC	Ft. Bliss							192	9.4	8.8
	Ft. Carson							50	36	40
	Ft. Hood				16	6.3		46	2.2	56.9
	Ft. Leavenworth							10	10	12.5
	Ft. Leonard Wood			100						
	Ft. Polk							11	0	44.4
	Ft. Riley							29	13.8	8.1
Ft. Sill							4	0	38.5	
RHCE	Landstuhl Regional Medical Center				76	3.9	0	81	9.9	8.9
RHCP	Ft. Wainwright							151	2.6	25
	Korea			0	36	2.8	3.4	35	2.9	8
	Tripler Army Medical Center	66	0	0	67	1.5	0	3	100	100

No.: Number of specimens tested during MMWR week 7 2019.

% Pos.: Percentage of positive specimens reported during MMWR week 7, 2019.

Baseline % Pos.: Percentage of positive specimens reported in MMWR week 7 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.

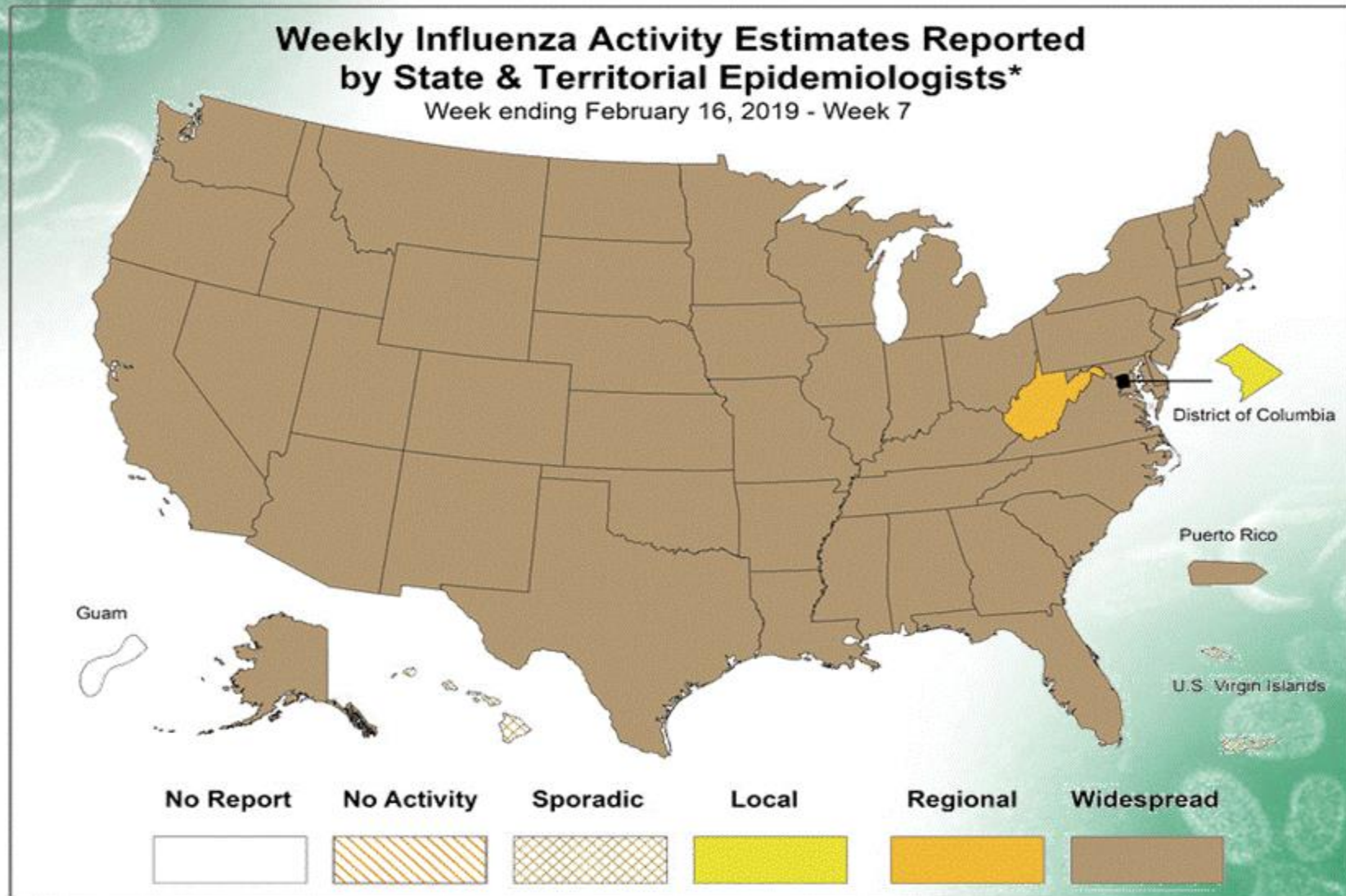
FLUVIEW



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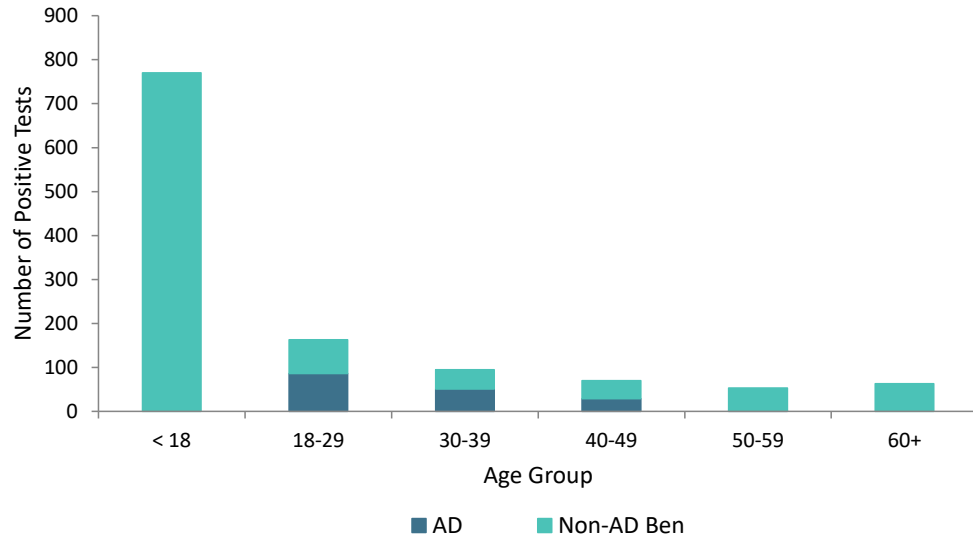
Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists*

Week ending February 16, 2019 - Week 7



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

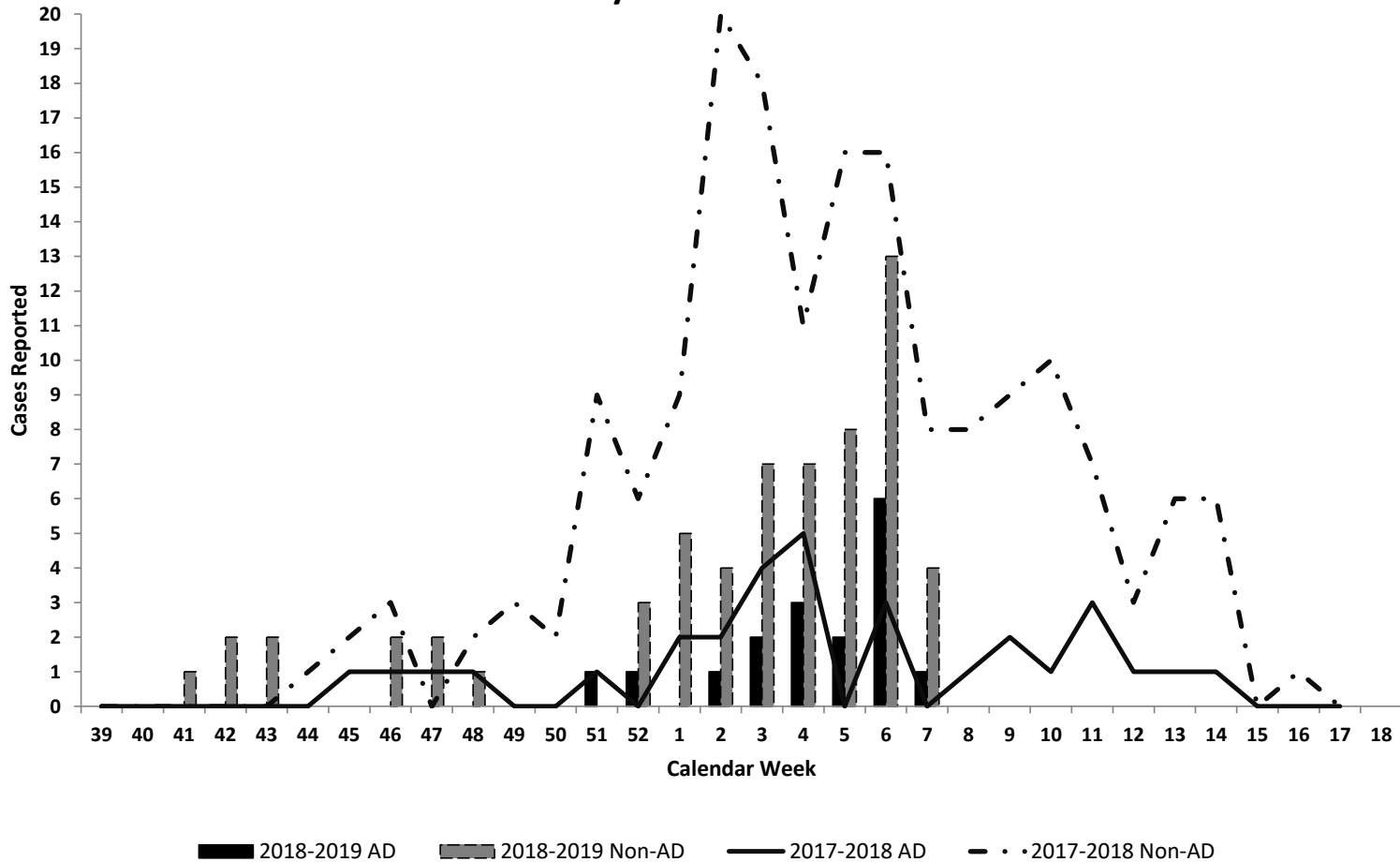
Positive Respiratory Specimen Results from Army MTFs by Age Group and Beneficiary Status, 2018-2019 Influenza Season



Week 7			
Age Group	AD	Non-AD Ben	Season Total
< 18	0	770	3016
18-29	86	77	647
30-39	51	44	523
40-49	29	41	400
50-59	2	51	265
60+	0	63	282
Total	168	1046	5133



Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Date

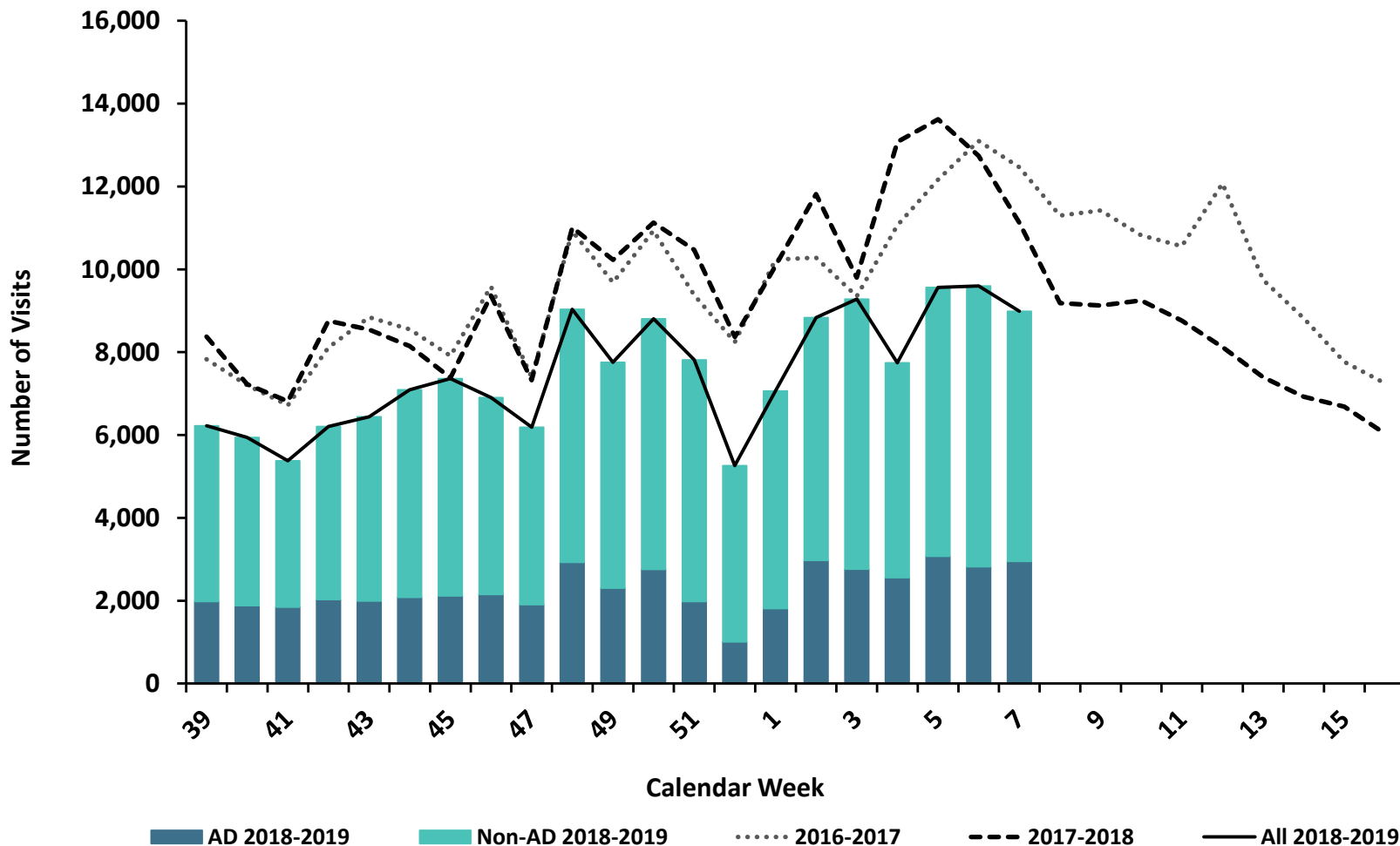


Note: Reportable influenza cases are defined as only cases that have been hospitalized and are under the age of 65. See [Armed Forces Reportable Medical Events Guidelines and Case Definitions](#) for more information.

Data as of 20 February 2019.

ESSENCE Weekly Outpatient Clinic Visits for Influenza-like Illness

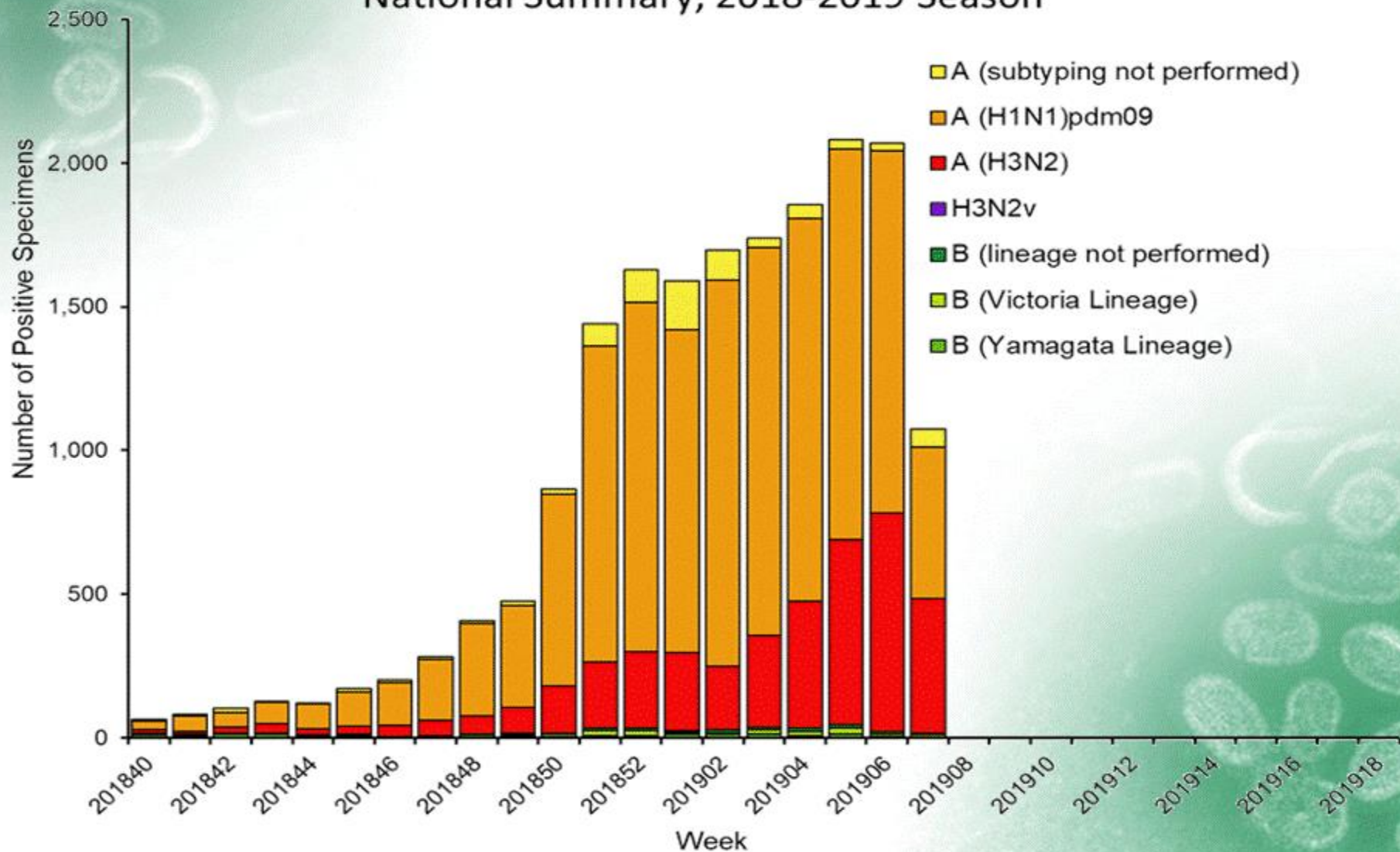
Army MTFs, All Services, 2016-2019



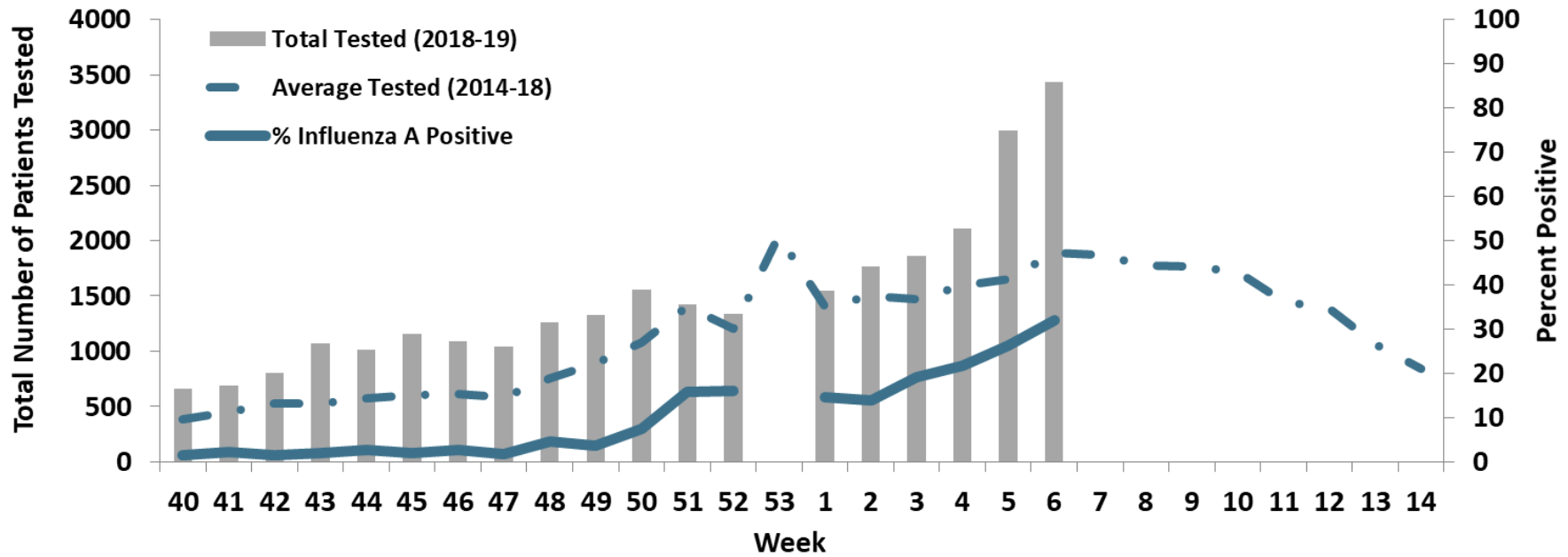
Clinic visits for ILI are obtained from ESSENCE. Data as of 20 February 2019.

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