

U.S. Army Public Health Center

Army Influenza Activity Report

Week ending 9 March 2019 (week 10)

Influenza Vaccination Coverage*

As of 7 March 2019

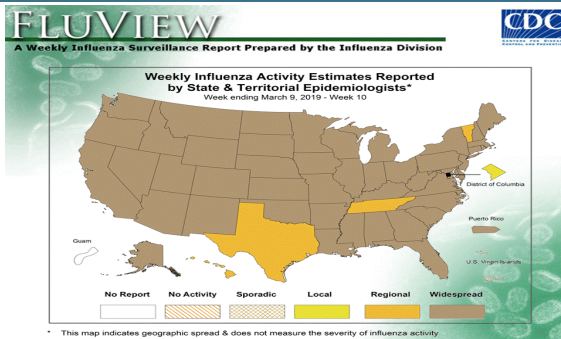
N/A	DoD
97%	Army Active Duty
90%	Army Guard
83%	Army Reserve

*Data Source: MEDPROS, ASIMS, MRRS

SUMMARY

In week 10, a 19% decrease in the overall number of positive respiratory specimens compared to week 9 was noted; there were 1280 samples in week 9 and 1035 in week 10. The largest reductions in the number of positive respiratory specimens from week 9 to week 10 were observed among adenovirus and respiratory syncytial virus, decreasing by 38% and 50%, respectively. The majority of the influenza A-positive specimens continue to be reported from installations in RHC-C (556, 58%) and RHC-A (329, 34%). Three influenza-associated hospitalizations with an onset date in week 10 were reported in the Disease Reporting System internet; there were no Active Duty Service Member cases.

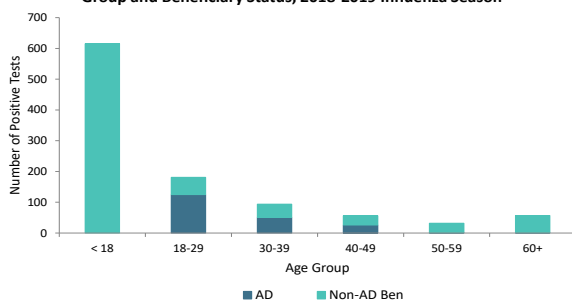
GEOGRAPHIC SPREAD



In the general U.S. population, widespread influenza activity was reported by Puerto Rico and 46 states. Regional activity was reported by Hawaii, Tennessee, Texas, and Vermont. Local activity was reported by the District of Columbia, 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 10.

DEMOGRAPHICS

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

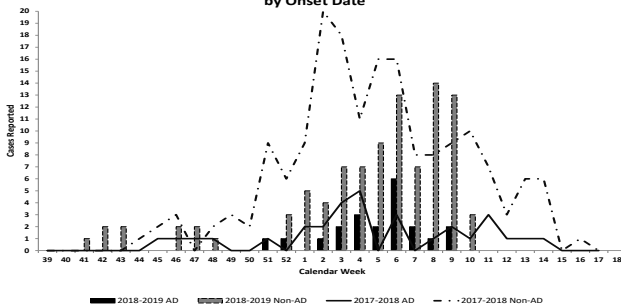


Active Duty (AD): In week 10, 20% (n=204) of the total positive specimens (n=1035) were among AD Service Members (SMs). Sixty-one percent (n=125) of the positive specimens were from individuals in the 18-29 age group.

Non-AD: The majority of the positive specimens continue to result from the non-AD population. In week 10, this group accounted for 80% (n=831) of the total positives. Individuals younger than 18 years were disproportionately affected; they accounted for 74% (n=615) of the positive respiratory specimens among non-AD individuals in week 10.

INFLUENZA-ASSOCIATED HOSPITALIZATIONS

Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Date



Three influenza-associated hospitalizations, with an onset date in week 10, were reported in DRSi. None of the cases were Service Members, and one was vaccinated. To date, there have been 116 reported hospitalizations this season: 21 AD SMs and 95 non-AD individuals.

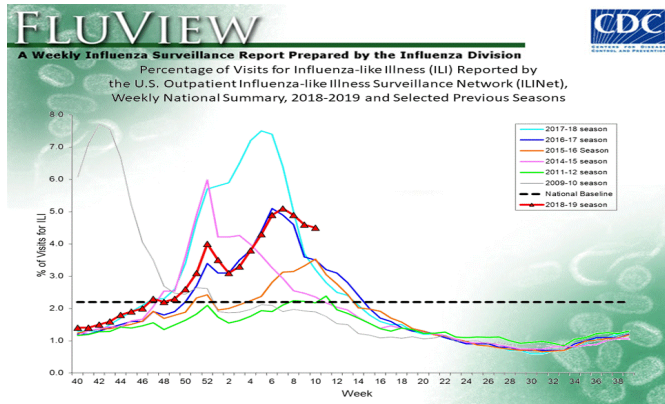
*DRSi does not capture cases older than 65 years old for influenza-associated hospitalizations.

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

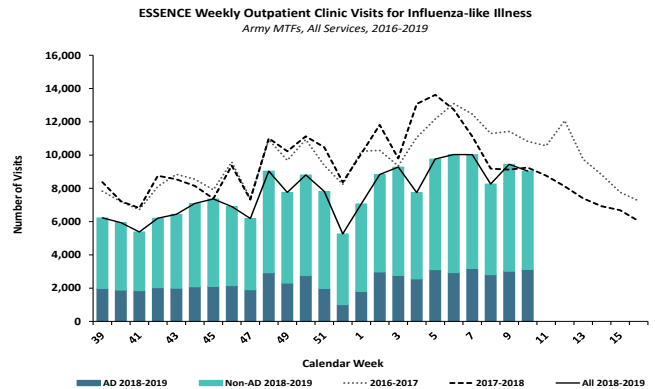
Key: ILI- Influenza-Like Illness; DRSi- Disease Reporting System Internet; NHRC- Naval Health Research Center; RSV- Respiratory Syncytial Virus; DEP- Disease Epidemiology Program

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

ILI ACTIVITY - UNITED STATES

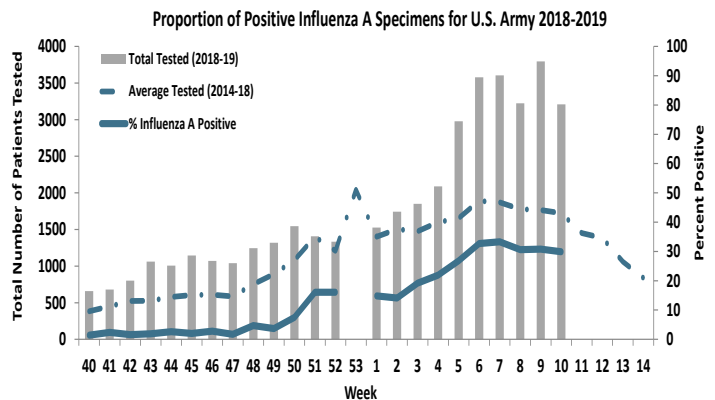
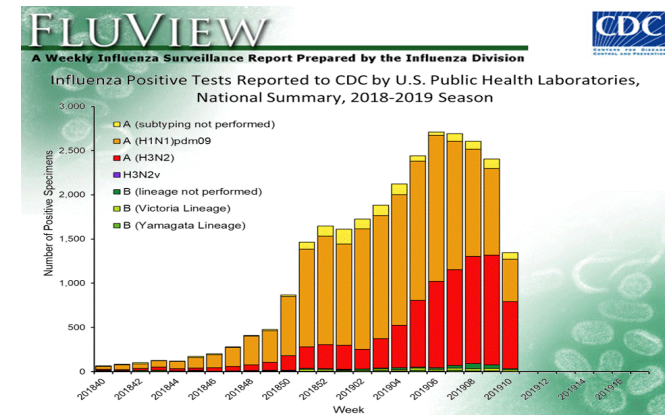


ILI ACTIVITY - ARMY



Nationwide in week 10, incidence of ILI activity was 4.5%, which is above the national baseline of 2.2%. Regionally, the percentage of ILI outpatient visits reported to the CDC ranged from 3.0% to 8.5%. At Army medical treatment facilities, overall incidence of ILI activity decreased by 4% when compared to the previous week. ILI activity among the AD population decreased by 4% from week 9 to week 10. When compared to week 10 of the 2017-2018 season, there were 2% fewer ILI outpatient visits in week 10 of the current season.

LABORATORY RESPIRATORY SPECIMEN TESTING



Nationwide, 2047 specimens were tested and submitted to the CDC during week 10, of which 1345 (66%) 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 58% (n=556) and 34% (n=329) specimens, respectively. Influenza A activity was markedly lower in RHC-P and RHC-E, accounting for 7% (n=68) and 5% (n=44) of the positive influenza A specimens, respectively.

		Week 7	Week 8	Week 9	Week 10	Season Total
Test Types Among Positive Influenza A Specimens	RAT	638	590	708	656	5140
	Culture	72	20	38	22	365
	PCR	490	375	422	281	2877
Army MTF Laboratory Results, 2018-19	Influenza A	1200	985	1168	959	8382
	Influenza B	28	17	26	27	299
	Adenovirus	26	14	24	15	332
	Enterovirus	0	0	0	0	5
	Parainfluenza	14	9	8	7	287
	RSV	98	82	54	27	1678
	Negative	5094	4768	5386	4723	72274
	Total	6460	5875	6666	5758	83257

The number of positive respiratory specimens decreased by 19% from week 9 to week 10; there were 1280 positive specimens in week 9 and 1035 in week 10. Influenza A, adenovirus, parainfluenza, and RSV were the respiratory pathogens that decreased in the number of positive specimens from week 9 to week 10, with a reduction of 18%, 38%, 13%, and 50% noted, respectively. Influenza B increased by 4% from week 9 to week 10. There was no enterovirus activity in weeks 9 and 10.

Locations providing week 10 laboratory data as of 13 March 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 Leonard Wood, Ft Meade, 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 the United States 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	198	30.8	12.3	159	0.6	100	65	7.7	100
	Ft. Benning	136	11.8	1.5	136	1.5	6.1			
	Ft. Bragg	171	33.9	12.8			100			
	Ft. Campbell	176	26.1	1.9	175	0.6	17.9			100
	Ft. Drum	21	38.1	20.7			100			
	Ft. Eustis	73	49.3	29.3	2	100	100			
	Ft. Gordon	58	12.1	0	58	1.7	6.1			100
	Ft. Jackson	108	25.9	6.8	109	0	6.8			
	Ft. Knox	37	18.9	9.3	37	0	9.3			
	Ft. Lee			5.1			100			
	Ft. Meade	11	36.4	0						
	Ft. Rucker	15	13.3	0	15	0	0			
	Ft. Sam Houston	454	30.2	2.1	453	1.8	11.8			100
	Ft. Stewart	109	19.3	3.6	108	0.9	8.1			
	Redstone Arsenal	24	16.7	0	25	0	0			
U.S. Military Academy	68	45.6	6.9	51	0	100			100	
RHCC	Ft. Bliss	344	30.2	2.2	147	0.7	23.3	21	9.5	4.5
	Ft. Carson	154	27.3	15.5			100			
	Ft. Hood	312	28.2	3.1	302	0.3	3.1	23	8.7	
	Ft. Huachuca	20	25	0	27	11.1	20			
	Ft. Irwin	66	19.7	25.6	66	0	0			
	Ft. Leavenworth	76	34.2	11.6	77	1.3	30.2			
	Ft. Leonard Wood	144	34	5.8	144	0	3.8			100
	Ft. Polk	11	36.4	0			100			
	Ft. Riley	116	32.8	5.1	100	0	5.1			
Ft. Sill	142	35.2	17.8	3	100	100				
RHCE	Landstuhl Regional Medical Center	38	15.8	19.2	32	3.1	25.7	32	6.3	2
RHCP	Ft. Wainwright	75	44	5.9	75	0	43.1			
	Korea	61	32.8	18.5	32	0	1.9	32	12.5	0
	Tripler Army Medical Center	100	15	0	69	1.4	10.8	68	0	3.3
Region	Installation	Enterovirus			Parainfluenza			RSV		
		No. Tested	% Positive	Baseline % Pos.	No. Tested	% Positive	Baseline % Pos.	No. Tested	% Positive	Baseline % Pos.
RHCA	Ft. Belvoir				69	5.8	100	155	1.3	15.4
	Ft. Campbell									100
	Ft. Drum			100			100			25
	Ft. Gordon						100			100
	Ft. Sam Houston						100			100
	Ft. Stewart							15	0	16.7
RHCC	Ft. Bliss							145	5.5	10.3
	Ft. Carson							33	21.2	23.1
	Ft. Hood				23	4.3		66	1.5	54.8
	Ft. Leavenworth							11	18.2	33.3
	Ft. Polk							1	0	50
	Ft. Riley							15	6.7	21.7
	Ft. Sill							2	0	0
RHCE	Landstuhl Regional Medical Center				33	3	1.9	35	11.4	3.8
RHCP	Ft. Wainwright							73	1.4	14.6
	Korea			0	32	3.1	0	32	0	1.9
	Tripler Army Medical Center	68	0	0	68	0	3.3	1	100	100

No.: Number of specimens tested during MMWR week 10 2019.

% Pos.: Percentage of positive specimens reported during MMWR week 10, 2019.

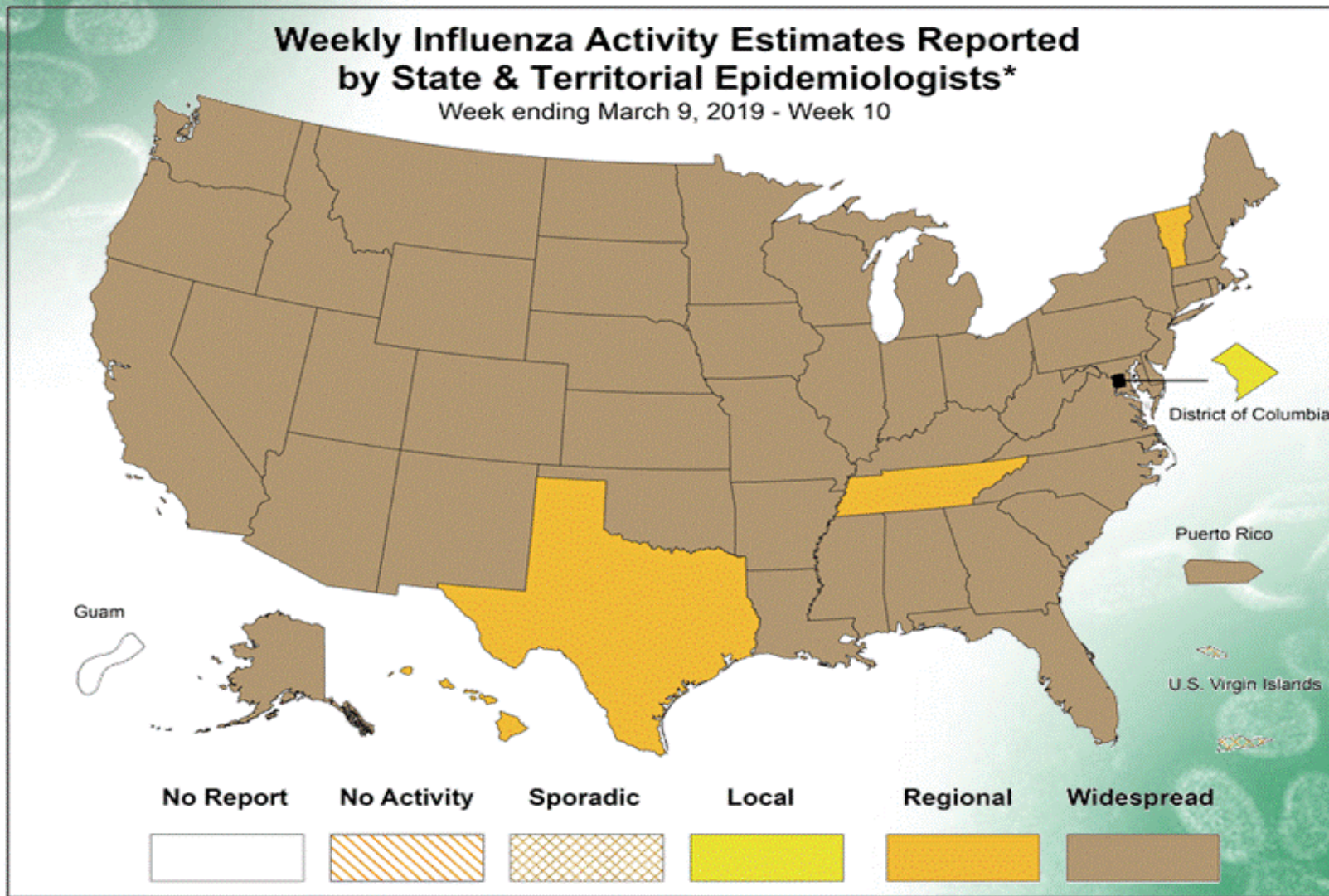
Baseline % Pos.: Percentage of positive specimens reported in MMWR week 10 during influenza seasons from September 2012 - May 2018.

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.

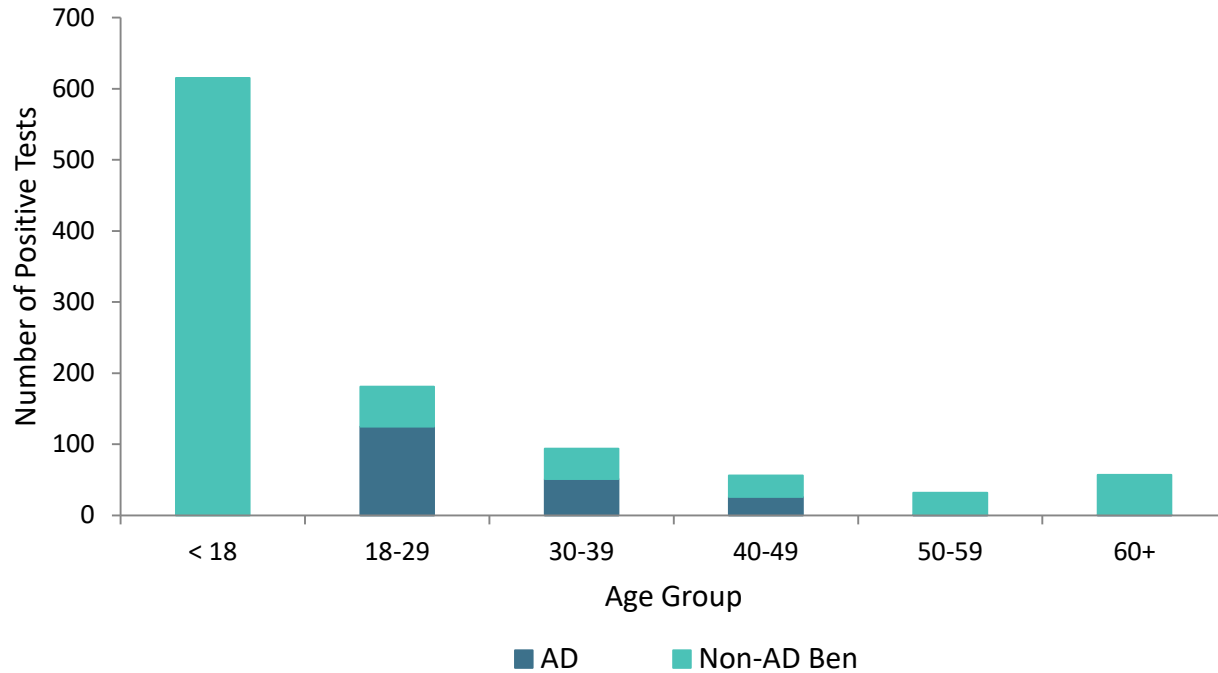
FLUVIEW

A Weekly Influenza Surveillance Report Prepared by the Influenza Division



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

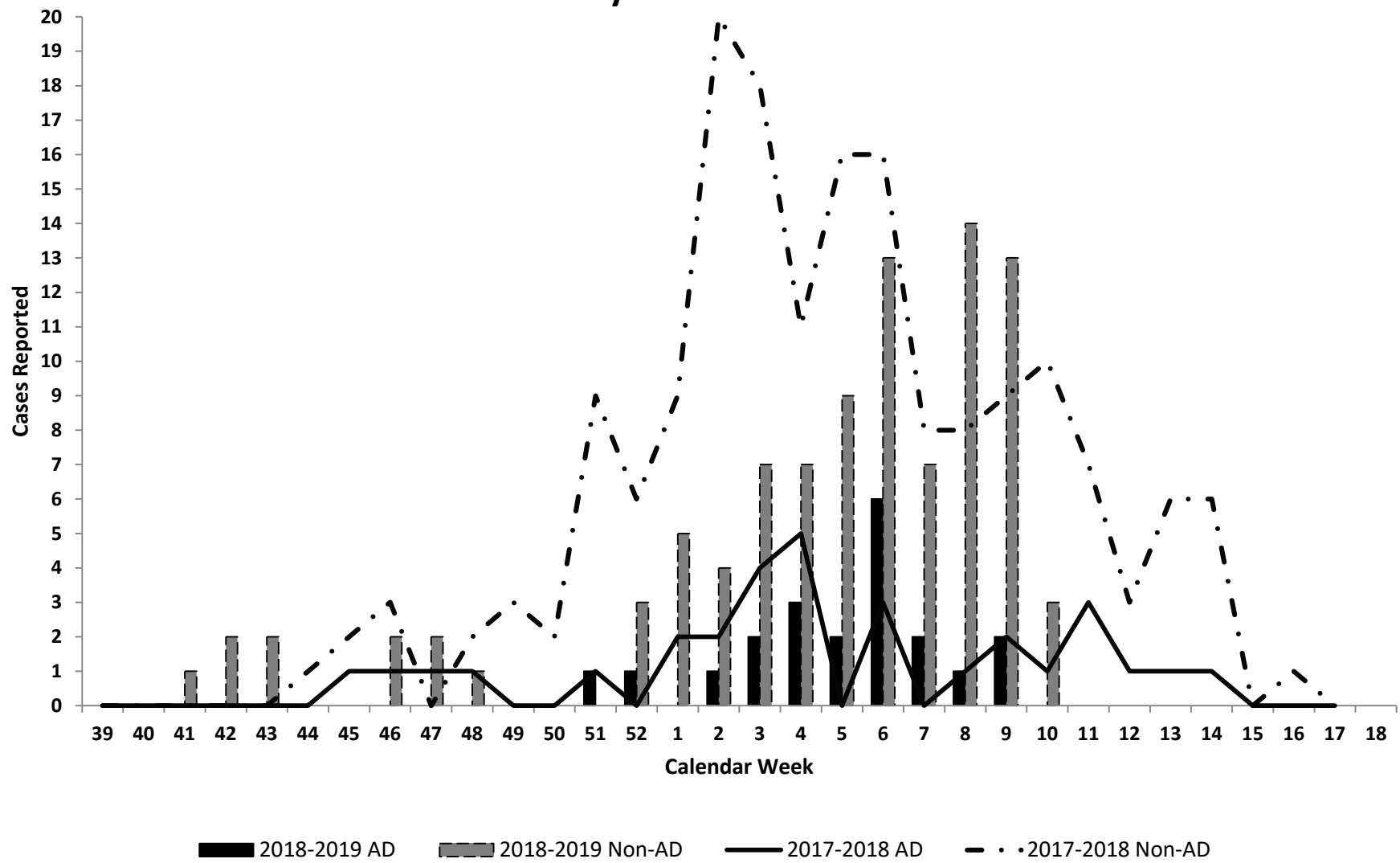
Positive Respiratory Specimen Results from Army MTFs by Age Group and Beneficiary Status, 2018-2019 Influenza Season



Week 10			
Age Group	AD	Non-AD Ben	Season Total
< 18	0	615	4877
18-29	125	56	1184
30-39	51	43	867
40-49	26	30	590
50-59	1	31	395
60+	1	56	469
Total	204	831	8382



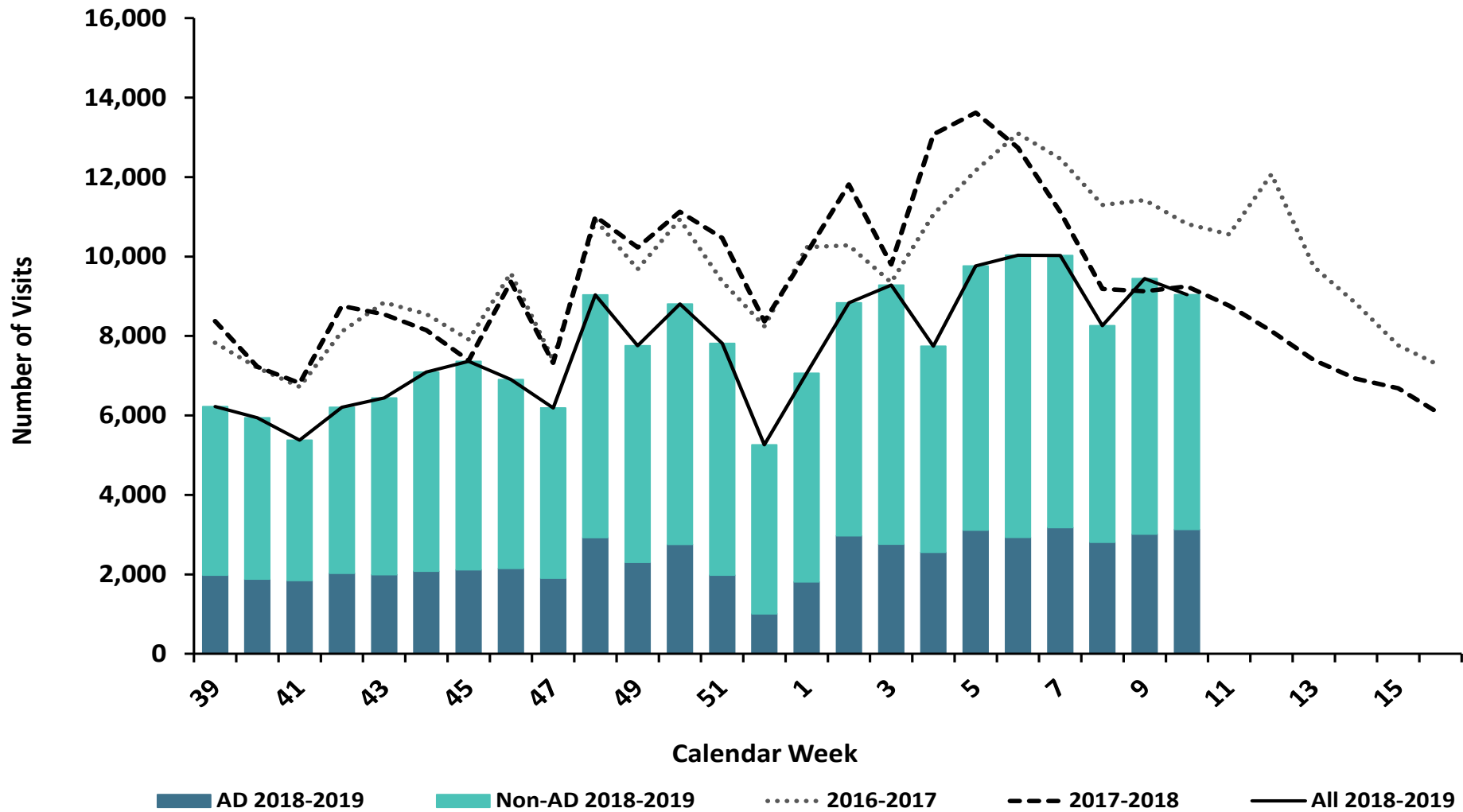
Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Date



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 13 March 2019.

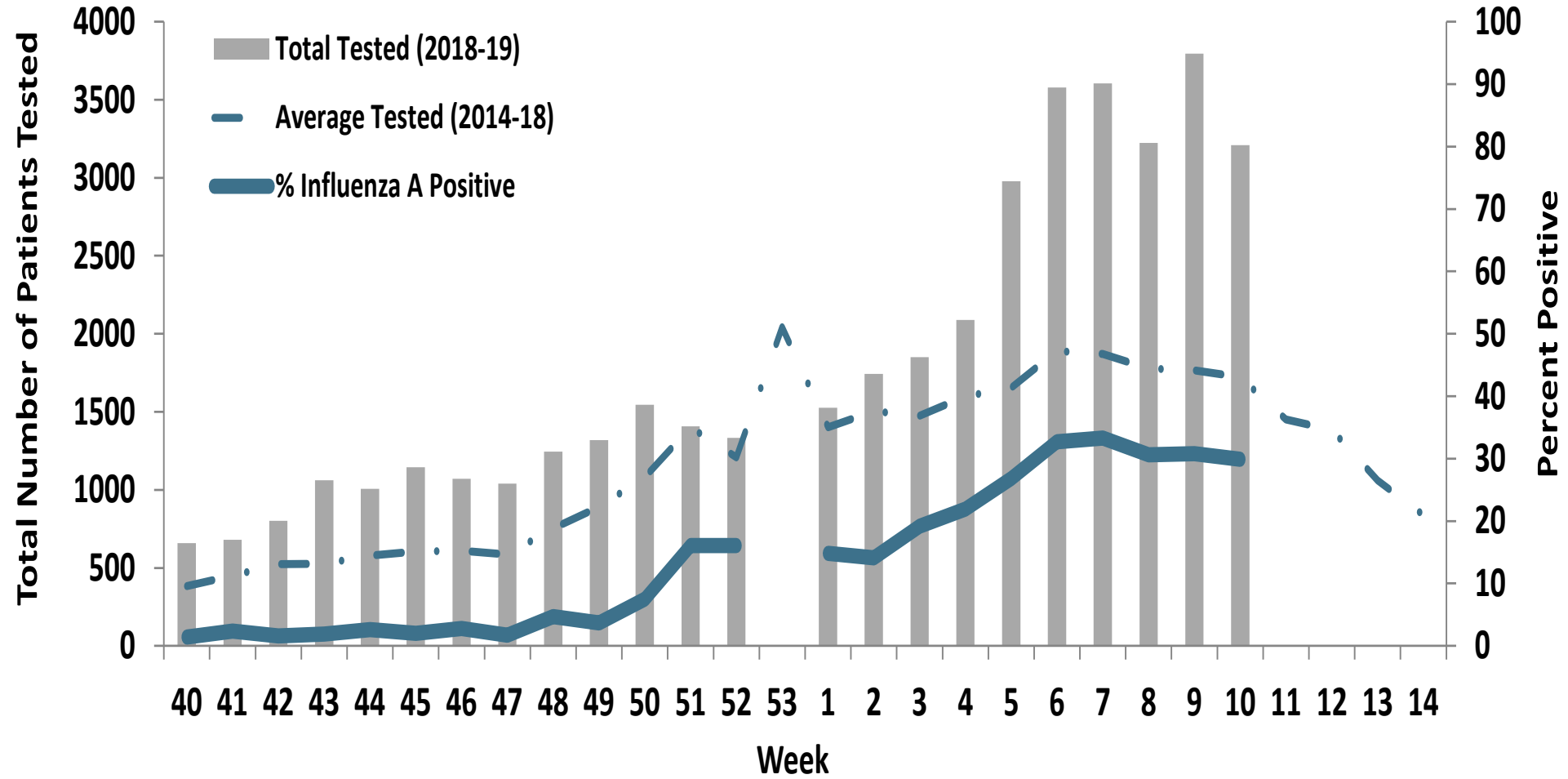
ESSENCE Weekly Outpatient Clinic Visits for Influenza-like Illness

Army MTFs, All Services, 2016-2019



Clinic visits for ILI are obtained from ESSENCE. Data as of 14 March 2019.

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



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