

U.S. Army Public Health Center

Army Influenza Activity Report

Week ending 9 February 2019 (week 6)

Influenza Vaccination Coverage*

As of 14 February 2019

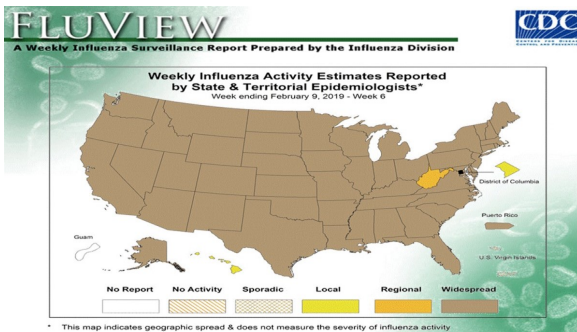
N/A	DoD
97%	Army Active Duty
90%	Army Guard
81%	Army Reserve

*Data Source: MEDPROS, ASIMS, MRRS

SUMMARY

A significant increase (32%) in the number of positive respiratory specimens when compared to surveillance week 5 was noted; there were 921 positive specimens in week 5 and 1214 in week 6. In week 6, the number of positive influenza A specimens increased by 40%, with 1098 positive specimens reported during week 6 compared to the 787 reported during week 5. Influenza A continues to be the most frequently resulted respiratory pathogen, accounting for 90% of all positive specimens. Ten influenza-associated hospitalizations with an onset date in week 6 were reported in the Disease Reporting System internet. Of those ten cases, four were Active Duty (AD) Service Members. 2538 outpatient visits for influenza-like-illness were reported into the Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE) for week 6, a 4% increase when compared to the number of visits reported in week 5.

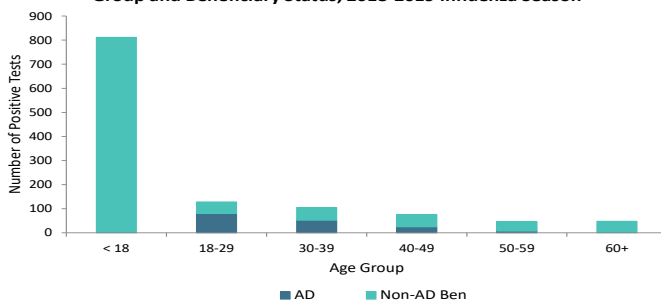
GEOGRAPHIC SPREAD



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 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 weeks 5 or 6.

DEMOGRAPHICS

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

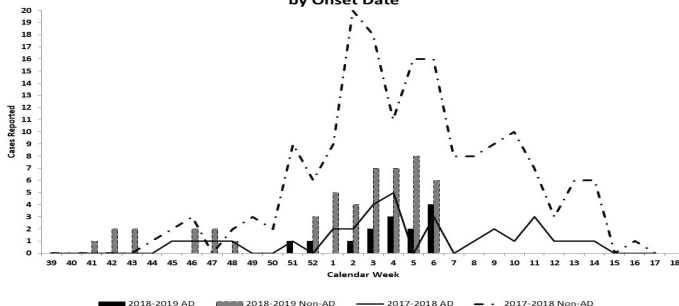


Active Duty (AD): In week 6, 14% (n=165) of the total positive specimens (n=1214) were among AD Service Members. This is a 32% increase when compared to the 125 positive specimens in AD Service Members during week 5. Forty-nine percent (n=81) of the positive specimens were from individuals in the 18-29 age group.

Non-AD: The majority of the positive specimens continue to result from the Non-AD population. In week 6, this group accounted for 86% (n=1049) of the total positives. Consistent with national trends, the majority of the cases 77% (n=812) occurred in those <18.

INFLUENZA-ASSOCIATED HOSPITALIZATIONS

Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Date



Ten influenza-associated hospitalizations, with an onset date in week 6, were reported in DRSi. Four of the reported cases were among AD Service Members; three of the four Service Members were vaccinated. To date, there have been 64 influenza-associated hospitalizations this season. Of the hospitalized cases, 36% (n=23) were vaccinated, with a median age of 29 years old.

*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](#)

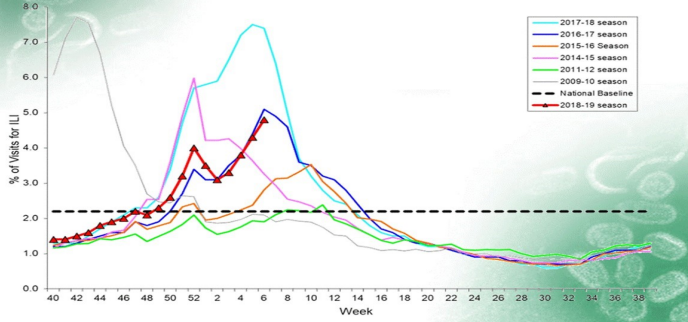
Key: ILI- Influenza-Like Illness; DRSi- Disease Reporting System Internet; NHRC- Naval Health Research Center; RSV- Respiratory Syncytial Virus; DEP- Disease Epidemiology Program

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

ILI ACTIVITY - UNITED STATES

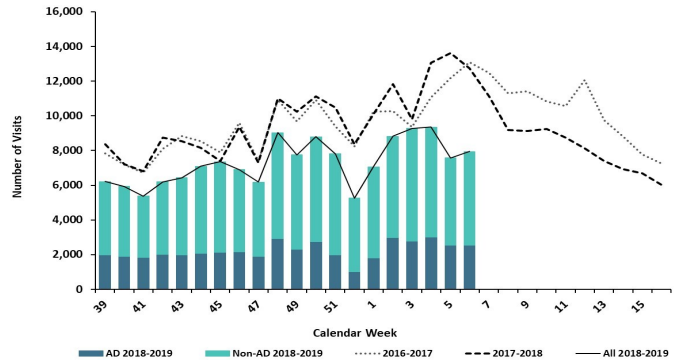
FLUVIEW

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

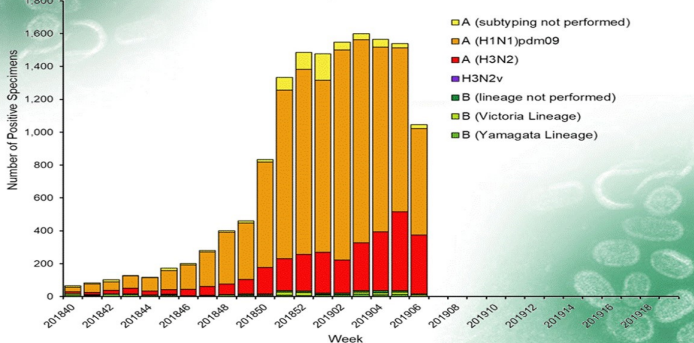


Nationwide in week 6, incidence of ILI activity was 4.8%, which is above the national baseline of 2.2%. Regionally, the percentage of ILI outpatient visits reported to the CDC ranged from 2.4% to 9.8%. At Army medical treatment facilities, overall incidence of ILI activity increased by 5% when compared to the previous week. The AD population experience a <1% increase when compared to week 5. When compared to week 6 of the 2017-2018 season, there were 38% fewer ILI outpatient visits.

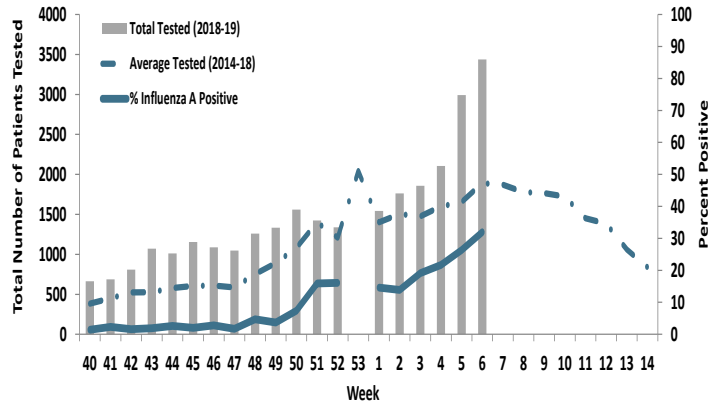
LABORATORY RESPIRATORY SPECIMEN TESTING

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, 1731 specimens were tested and submitted to the CDC during week 6, of which 1029 (59%) were positive for influenza. The majority of the influenza A-positive specimens continue to be reported from RHC-A and RHC-C, with 52% (n=568) and 37% (n=401) specimens, respectively. RHC-E continues to see the least activity with 3% (n=29) of the specimens being reported in this region.

		Week 3	Week 4	Week 5	Week 6	Season Total
Test Types Among Positive Influenza A Specimens	RAT	218	275	478	711	2575
	Culture	30	26	17	16	145
	PCR	107	155	292	371	1267
Army MTF Laboratory Results, 2018-19	Influenza A	355	456	787	1098	3987
	Influenza B	16	11	18	17	201
	Adenovirus	15	23	18	9	240
	Enterovirus	0	0	0	0	5
	Parainfluenza	6	11	5	2	240
	RSV	99	122	93	88	1395
	Negative	3285	3640	4715	4882	52611
	Total	3776	4263	5636	6096	58679

The number of positive respiratory specimens increased by 32%* from week 5 to week 6; there were 921 positive specimens in week 5 and 1214 in week 6. The number of positive influenza A specimens increased by 40%, with 1098 positive specimens in week 6 compared to 787 in week 5. The number of positive RSV samples decreased by 5% when comparing the number of positives in week 5 (93) to that of week 6 (88). The rapid antigen test (RAT) is still the diagnostic method of choice, accounting for 65% (n=711) of all tests conducted.

*97% of reporting locations submitted data in week 6.

Locations providing week 6 laboratory data as of 13 February 2019: Ft Belvoir, Ft Benning, Ft Bliss, Ft Bragg, Ft Campbell, Ft Carson, 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	257	32.3	21.1	165	0	100	74	8.1	100
	Ft. Benning	273	23.4	18.8	273	0.4	14.9			
	Ft. Bragg	210	44.3	21			100			
	Ft. Campbell	276	37	24.3	276	0	6.3			100
	Ft. Drum			50			100			
	Ft. Eustis	56	44.6	38.3	3	100	100			
	Ft. Gordon	8	25	19.1	8	0	21.2			100
	Ft. Jackson	130	27.7	20.6	129	0	10.4			
	Ft. Knox	34	8.8	9.1	34	0	6.1			
	Ft. Lee	62	24.2	10.1			100			
	Ft. Meade	8	12.5	28.8						
	Ft. Rucker	15	20	18.8	15	0	4.5			
	Ft. Sam Houston	482	31.5	14	481	1.5	21			100
	Ft. Stewart	185	33.5	21.2	184	0	7.5			
Redstone Arsenal	93	40.9	25	93	0	7.1				
West Point Military Academy	77	53.2	23.8	47	2.1	100				
RHCC	Ft. Bliss	302	26.5	15.5	206	0	69.7	33	3	3.1
	Ft. Carson	131	20.6	10			100			
	Ft. Hood	171	21.1	24.2	166	0.6	6.5	16	12.5	
	Ft. Huachuca	26	19.2	7.4	26	7.7	6.7			
	Ft. Irwin	72	30.6	14.9	72	0	3.4			
	Ft. Leavenworth	58	37.9	21.8	58	3.4	11.4			
	Ft. Leonard Wood	66	15.2	16.1	66	0	9.4			100
	Ft. Polk	70	20	7.4			100			
RHCE	Ft. Riley	104	21.2	9.2	87	0	8.7			
	Ft. Sill	77	14.3	16.8			100			
RHCP	Landstuhl Reg. Med. Cen.	73	32.9	13.9	49	0	15.3	49	0	1.2
RHCP	Ft. Wainwright	127	58.3	9.8	126	0	1.9			
	Korea	47	38.3	34.3	21	0	8	21	0	0
	Tripler Army Medical Center	109	11.9	9	70	0	7.8	70	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				74	1.4	100	171	6.4	35
	Ft. Campbell						100			100
	Ft. Drum						100			0
	Ft. Gordon						100			100
	Ft. Sam Houston									100
	Ft. Stewart							12	25	0
RHCC	Ft. Bliss							203	17.2	8.8
	Ft. Carson							41	46.3	40
	Ft. Hood				16	0		59	6.8	56.9
	Ft. Leavenworth							8	12.5	12.5
	Ft. Leonard Wood			100						
	Ft. Polk							14	7.1	44.4
	Ft. Riley							39	2.6	8.1
RHCE	Ft. Sill							1	0	38.5
	Landstuhl Reg. Med. Cen.				50	2	0	60	15	8.9
RHCP	Ft. Wainwright							125	0.8	25
	Korea			0	21	0	3.4	21	4.8	8
	Tripler Army Medical Center	70	0	0	70	0	0	2	100	100

No.: Number of specimens tested during MMWR week 6 2019.

% Pos.: Percentage of positive specimens reported during MMWR week 6, 2019.

Baseline % Pos.: Percentage of positive specimens reported in MMWR week 6 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.

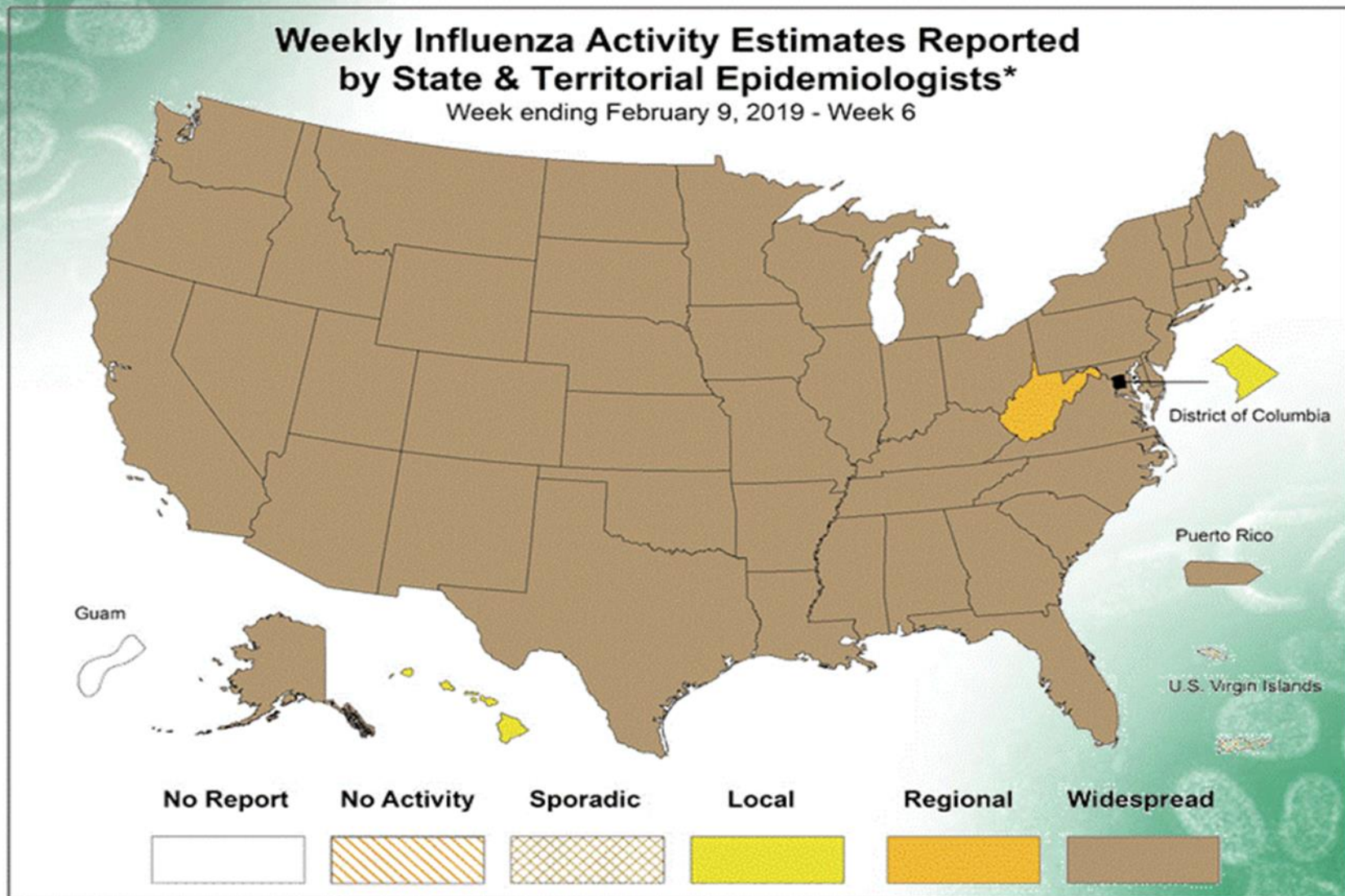
FLUVIEW

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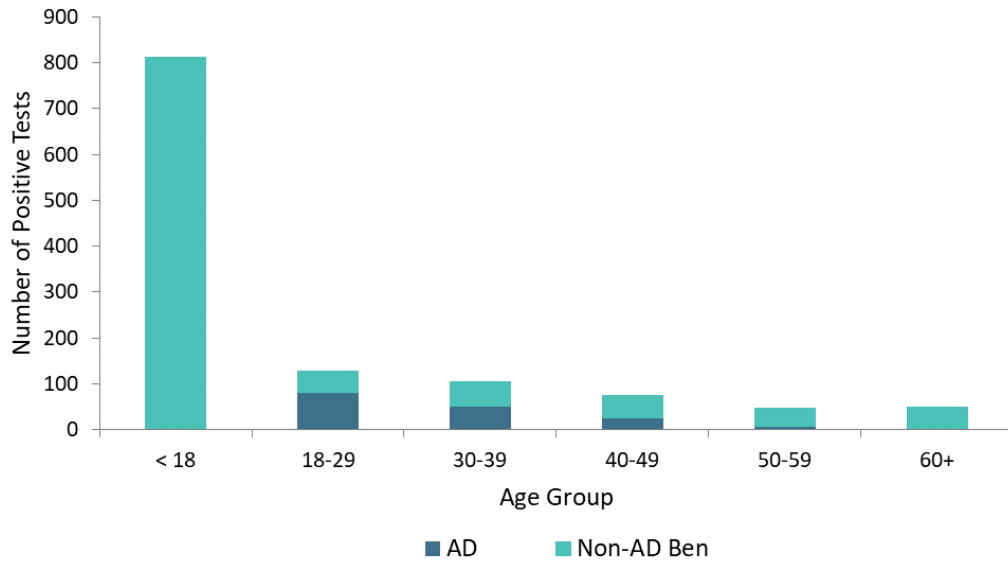
Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists*

Week ending February 9, 2019 - Week 6



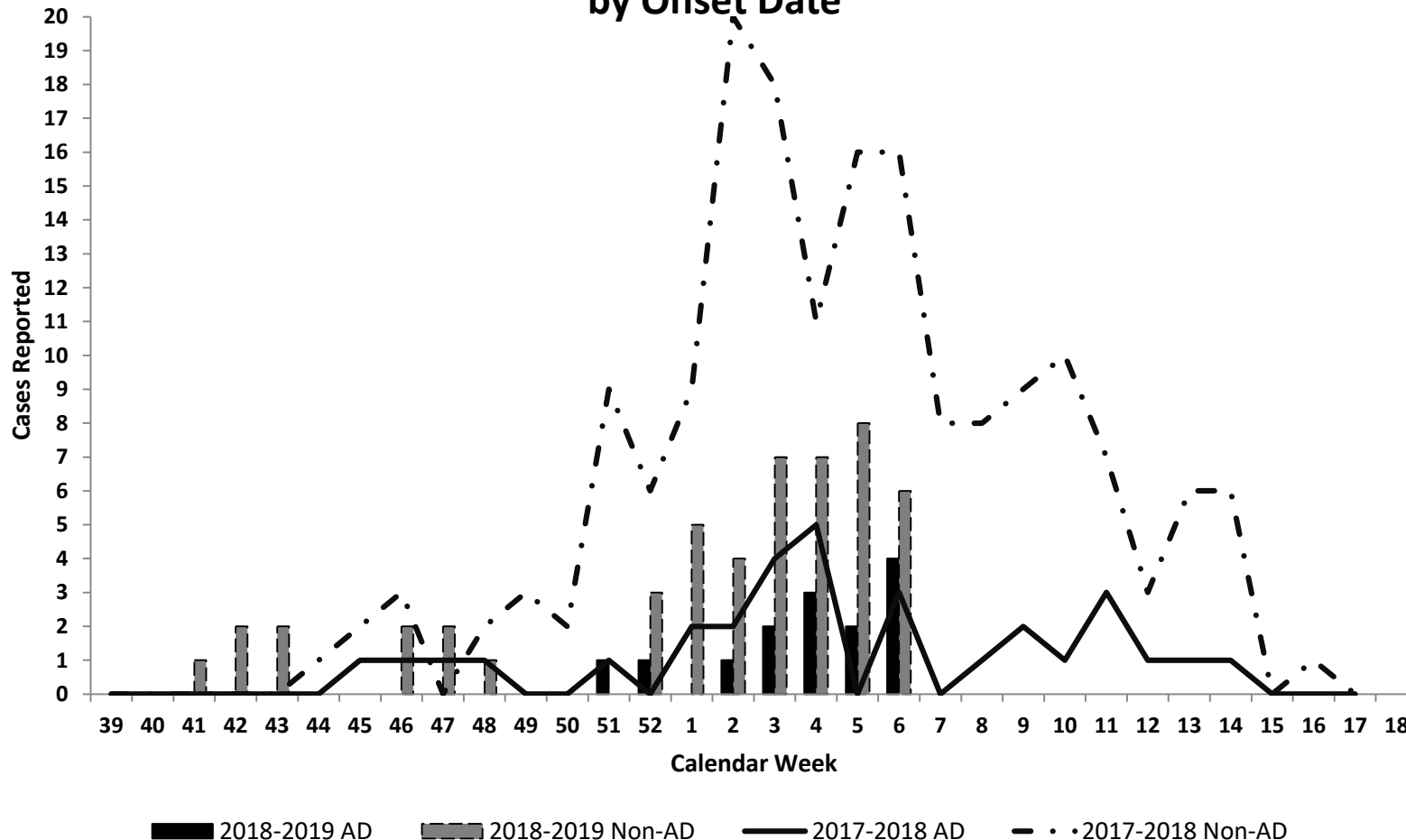
* This map indicates geographic spread & does not measure the severity of influenza activity

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



Week 6			
Age Group	AD	Non-AD Ben	Season Total
< 18	0	812	2320
18-29	81	47	482
30-39	52	53	424
40-49	25	50	323
50-59	7	39	213
60+	0	48	225
Total	165	1049	3987

Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Date



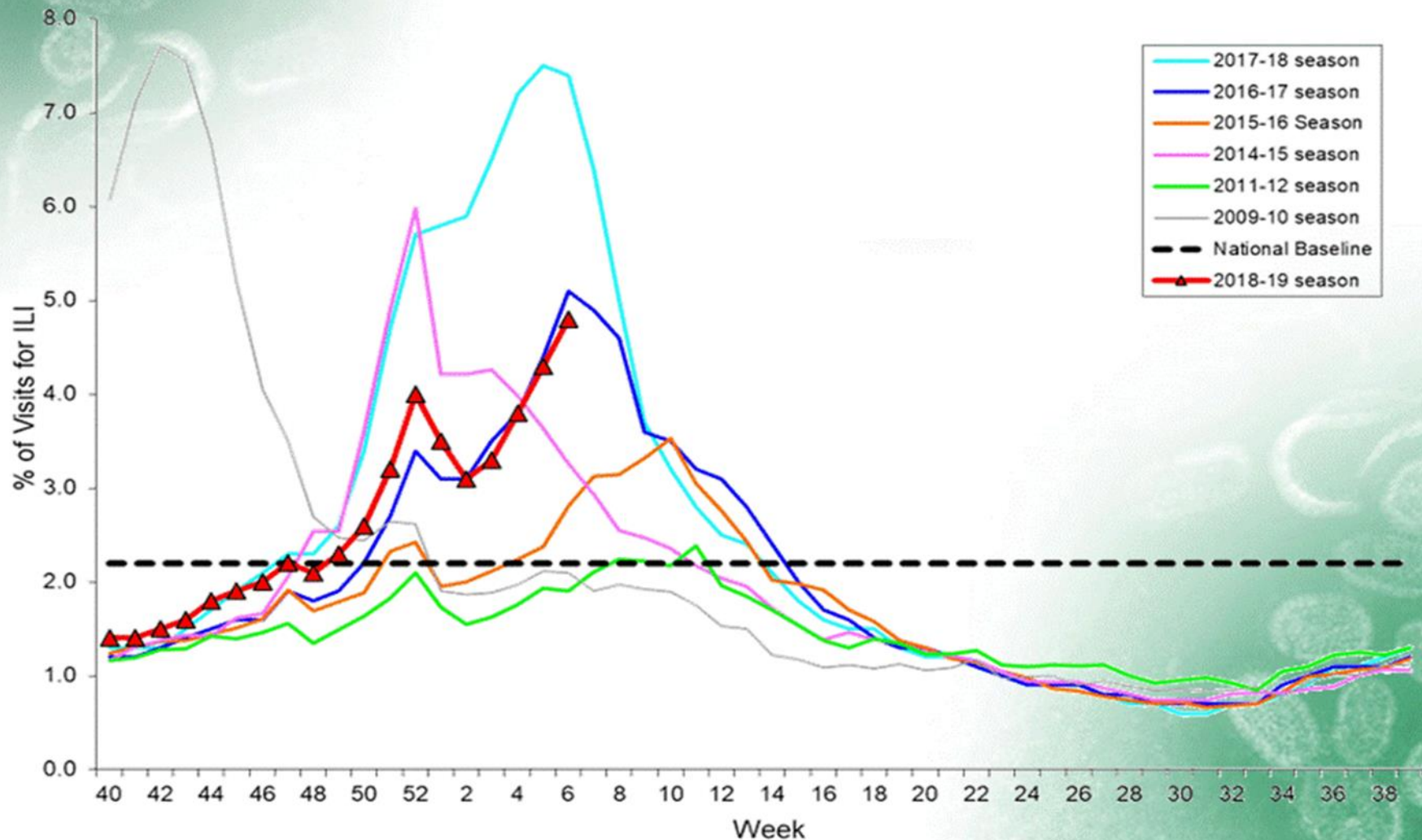
Note: Reportable influenza cases are defined as only cases that have been hospitalized and are under the age of 65. See [Armed Forces Reportable Medical Events Guidelines and Case Definitions](#) for more information.
Data as of 13 February 2019.

FLUVIEW



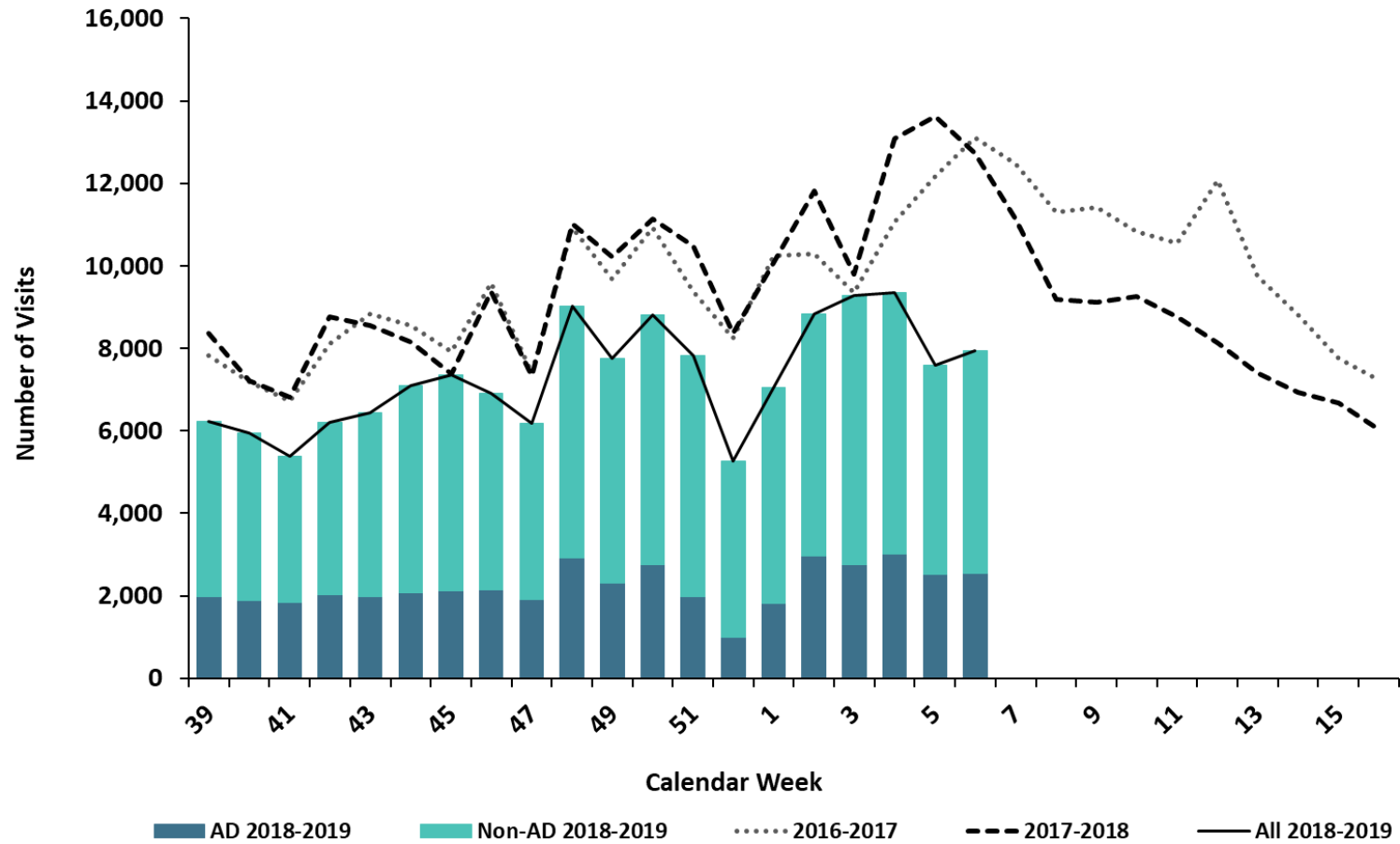
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ESSENCE Weekly Outpatient Clinic Visits for Influenza-like Illness

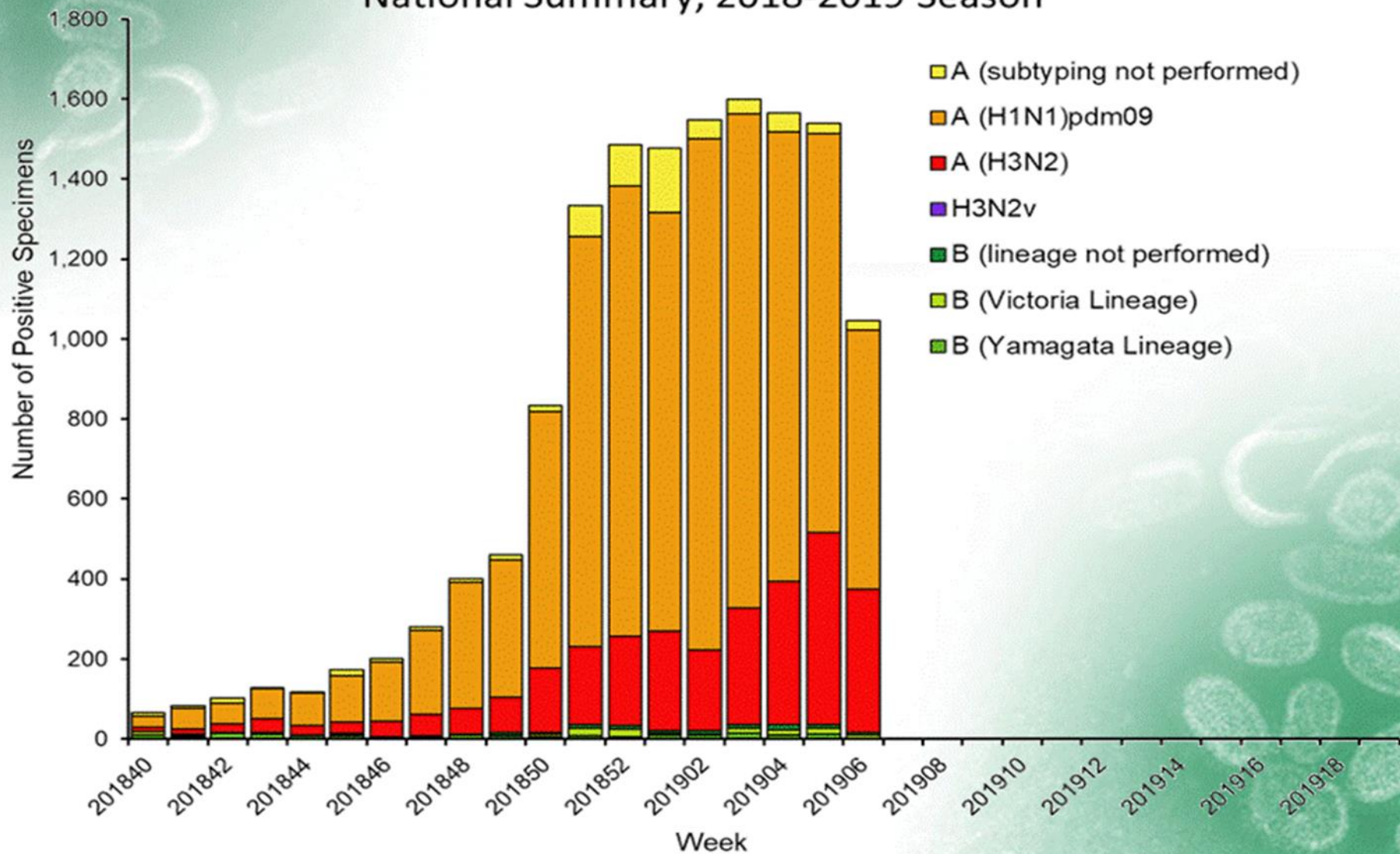
Army MTFs, All Services, 2016-2019



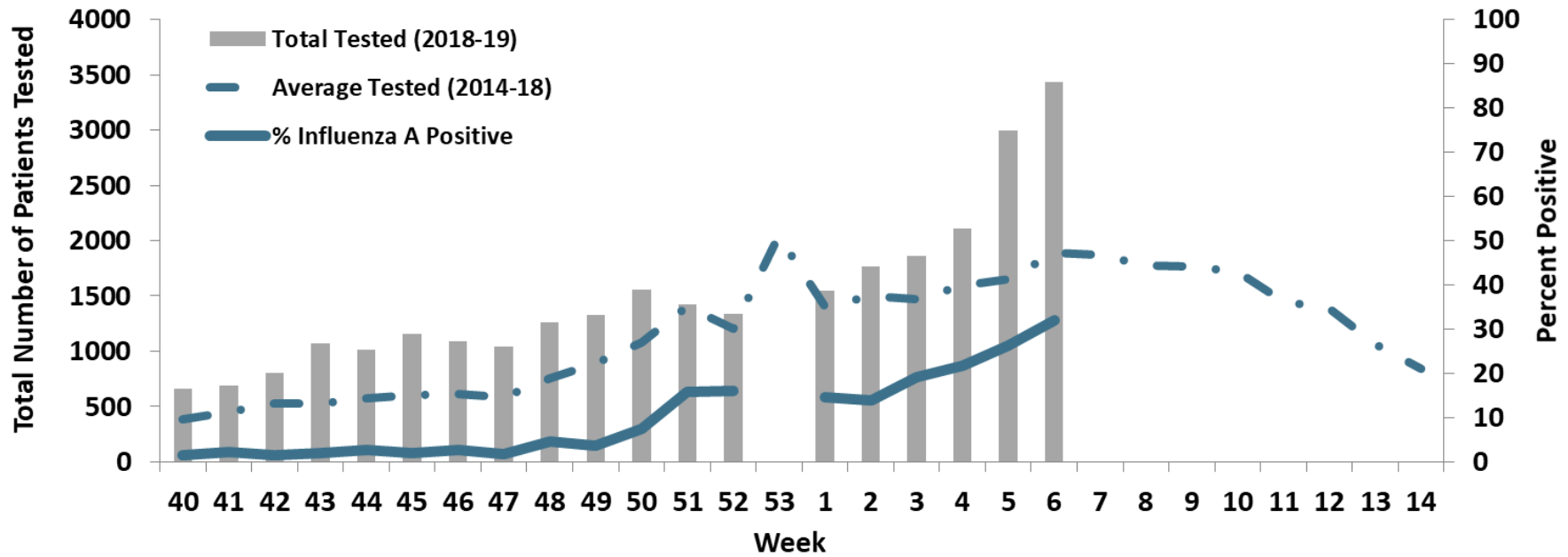
Clinic visits for ILI are obtained from ESSENCE. Data as of 13 February 2019.

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