

U.S. Army Public Health Center

Army Influenza Activity Report

Week ending 13 April 2019 (week 15)

Influenza Vaccination Coverage*

As of 18 April 2019

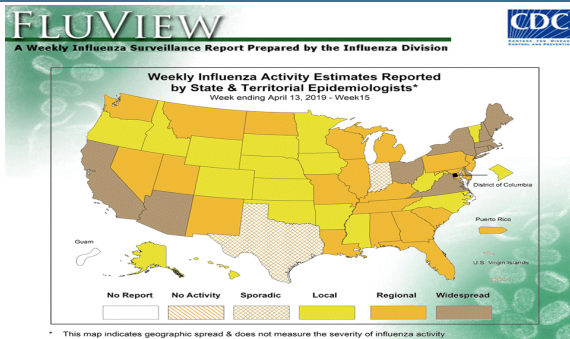
N/A	DoD
98%	Army Active Duty
89%	Army Guard
84%	Army Reserve

*Data Source: MEDPROS, ASIMS, MRRS

SUMMARY

In week 15, a 39% decrease in the number of positive specimens was noted when compared to week 14; there were 450 samples in week 14 and 275 samples in week 15. Positive specimens of parainfluenza increased by 31%, with 13 positive specimens in week 14 and 17 in week 15. Two influenza-associated hospitalizations with an onset date in week 15 were reported in the Disease Reporting System internet; neither were Active Duty Service Members. This brings this flu season's total hospitalizations to 165, a 20% decrease from the 206 total cases reported at this point in the 2017-2018 season. As the influenza season closes, leaders should continue to stress the importance of proper hand hygiene and respiratory etiquette in the prevention of respiratory illnesses.

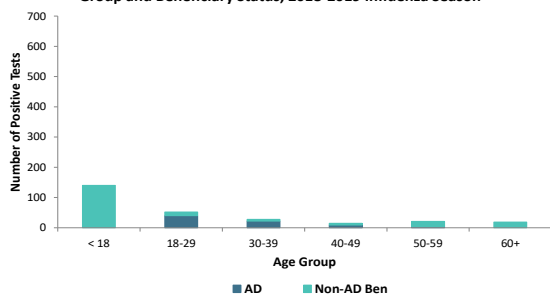
GEOGRAPHIC SPREAD



In the general U.S. population, widespread influenza activity was reported by 11 states. Regional activity was reported by Puerto Rico and 20 states, and local activity was reported by the District of Columbia and 17 states. Sporadic activity was reported by U.S. Virgin Islands and two states. Guam did not report to the Centers for Disease Control and Prevention (CDC) in week 15.

DEMOGRAPHICS

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

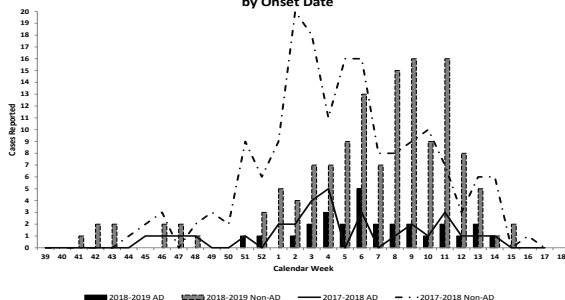


Active Duty (AD): In week 15, 27% (n=74) of the total positive specimens (n=275) were among AD Service Members (SMs). Fifty-four percent (n=40) of the positive specimens among AD Service Members were from individuals in the 18-29 age group.

Non-AD: The majority of the positive specimens continue to result from the non-AD population. In week 15, this group accounted for 73% (n=201) of the total positive specimens. Individuals younger than 18 years were disproportionately affected; they accounted for 70% (n=140) of the positive respiratory specimens among non-AD individuals in week 15.

INFLUENZA-ASSOCIATED HOSPITALIZATIONS

Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Date



Two influenza-associated hospitalizations, with an onset date in week 15, were reported in DRSi; both cases were non-AD individuals. There have been 165 hospitalizations for the season: 28 AD SMs and 137 non-AD individuals. At this time during the last influenza season, 206 hospitalizations were reported.

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

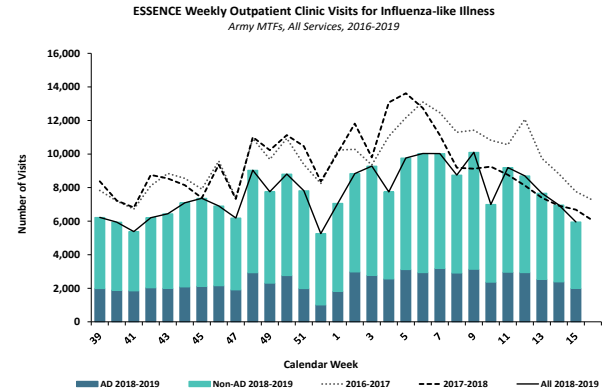
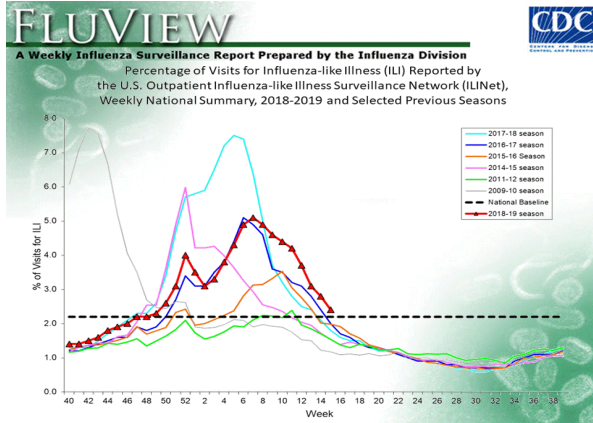
Additional Resources: [Army Influenza Reports](#); [ARD Reports](#); [AFHSB Influenza Reports](#); [NHRC FRI Reports](#); [DoD Pandemic Influenza Watchboard](#); [CDC](#)

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

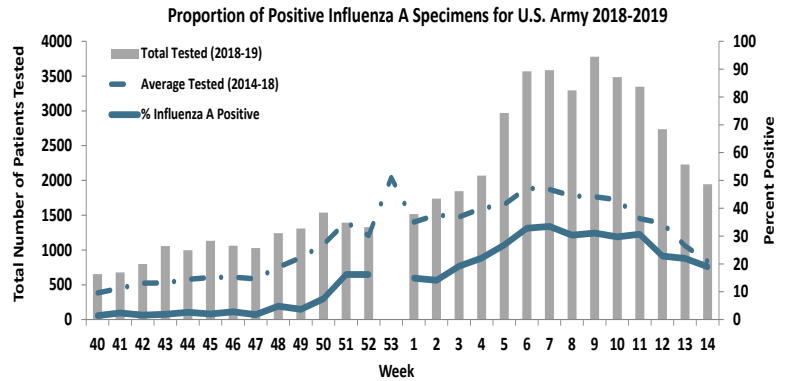
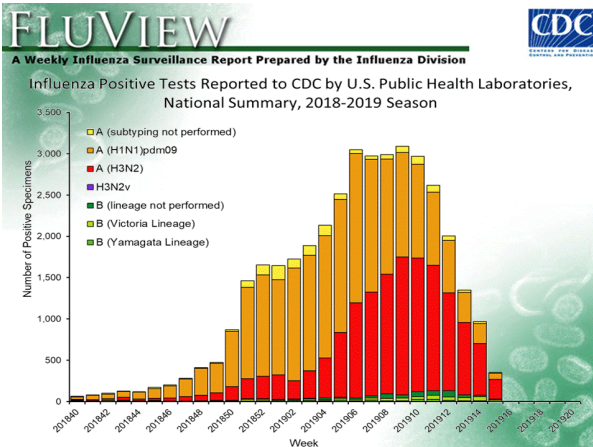
ILI ACTIVITY - UNITED STATES

ILI ACTIVITY - ARMY



Nationwide in week 15, incidence of ILI activity was 2.4%, which is above the national baseline of 2.2%. Regionally, the percentage of ILI outpatient visits reported to the CDC ranged from 1.0% to 3.5%. At Army medical treatment facilities, overall incidence of ILI activity decreased by 14% when compared to the previous week. ILI activity among the AD population also decreased by 16% from week 14 to week 15. When compared to week 15 of the 2017-2018 season, there were 11% fewer ILI outpatient visits in week 15 of the current season.

LABORATORY RESPIRATORY SPECIMEN TESTING



Nationwide, 831 specimens were tested and submitted to the CDC during week 15, of which 353 (42%) were positive for influenza. In the Army population, the majority of the influenza A-positive specimens continue to be reported from RHC-A and RHC-C, with 56% (n=120) and 36% (n=77) of the positive specimens, respectively. Influenza A activity in these regions was also markedly lower in week 15 when compared to week 14; there was a 38% and 41% decrease in the number of positive influenza A specimens in RHC-A and RHC-C, respectively.

		Week 12	Week 13	Week 14	Week 15	Season Total
Test Types Among Positive Influenza A Specimens	RAT	398	352	274	157	7072
	Culture	16	5	22	4	474
	PCR	211	134	73	52	3657
Army MTF Laboratory Results, 2018-19	Influenza A	625	491	369	213	11203
	Influenza B	30	47	34	32	484
	Adenovirus	24	14	14	6	429
	Enterovirus	0	0	0	0	5
	Parainfluenza	14	12	13	17	379
	RSV	33	24	20	7	1820
	Negative	4258	3717	3398	2881	91265
Total	4984	4305	3848	3156	105585	

The number of positive respiratory specimens decreased by 39% from week 14 to week 15; there were 450 positive specimens in week 14 and 275 in week 15. All respiratory pathogens, except parainfluenza and enterovirus, decreased in the number of positive specimens from week 14 to week 15: influenza A, influenza B, adenovirus, and respiratory syncytial virus decreased by 42%, 6%, 57%, and 65%, respectively. Positive specimens of parainfluenza increased by 31% while the number of positive enterovirus specimens remained at zero.

Locations providing week 15 laboratory data as of 17 April 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 Regional Medical Center, Korea, Redstone Arsenal, Tripler Army Medical Center, the United States Military Academy, and Walter Reed National Military Medical Center.

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	237	21.5	3.1	125	5.6	100	56	3.6	100
	Ft. Benning	56	10.7	1.3	57	1.8	5.3			
	Ft. Bragg	85	20	4			100			
	Ft. Campbell	78	9	0	80	0	4.5			100
	Ft. Drum	16	18.8	12.5			100			
	Ft. Eustis	23	30.4	12.5						
	Ft. Gordon	54	5.6	0	53	0	21.1			100
	Ft. Jackson	41	22	5.7	41	0	5.7			
	Ft. Knox	14	0	0	14	0	0			
	Ft. Lee	19	26.3	0			100			
	Ft. Meade	6	16.7	0						
	Ft. Rucker	11	9.1	25	7	0	0			
	Ft. Sam Houston	188	6.4	0	188	3.7	7.9			
	Ft. Stewart	46	8.7	0	46	4.3	2.6			
	Redstone Arsenal	7	28.6	0	8	12.5	14.3			
West Point Military Academy	20	20	0	13	7.7	100			100	
RHCC	Ft. Bliss	91	8.8	1.9	73	0	4.2	15	6.7	11.1
	Ft. Carson	70	10	0			100			
	Ft. Hood	105	5.7	0	105	1.9	0	19	5.3	
	Ft. Huachuca	21	23.8	0	22	0	0			
	Ft. Irwin	22	13.6	10	23	0	0			
	Ft. Leavenworth	25	36	7.7	25	0	14.3			
	Ft. Leonard Wood	64	23.4	28.6	64	0	0			100
	Ft. Polk	57	21.1	37.5			100			
	Ft. Riley	27	0	0	27	0	4.3			
	Ft. Sill	17	0	0	1	100	100			
RHCE	Landstuhl Regional Medical	30	20	10.3	24	0	3.2	24	8.3	3.2
RHCP	Ft. Wainwright	36	2.8	6	37	21.6	22.9			
	Korea	35	14.3	8	21	4.8	0	21	0	0
	Tripler Army Medical Center	88	4.5	0	63	1.6	4.8	62	0	7
Region	Installation	Enterovirus			Parainfluenza			RSV		
		No. Tested	% Positive	Baseline % Pos.	No. Tested	% Positive	Baseline % Pos.	No. Tested	% Positive	Baseline % Pos.
RHCA	Ft. Belvoir				64	10.9	100	131	1.5	9.1
	Ft. Campbell						100			100
	Ft. Drum						100	1	0	0
	Ft. Gordon						100			
	Ft. Sam Houston						100			
	Ft. Stewart						100	7	0	0
	West Point Military Academy						100			100
RHCC	Ft. Bliss							72	1.4	3.4
	Ft. Carson							26	11.5	0
	Ft. Hood				19	0		43	2.3	54.9
	Ft. Leavenworth							3	0	50
	Ft. Leonard Wood						100			
	Ft. Polk							7	0	0
	Ft. Riley							13	0	9.1
Ft. Sill									0	
RHCE	Landstuhl Regional Medical				26	7.7	0	25	0	11.8
RHCP	Ft. Wainwright							36	0	3.9
	Korea			0	21	23.8	0	20	0	8.7
	Tripler Army Medical Center	62	0	0	65	4.6	0			100

No.: Number of specimens tested during MMWR week 15 2019.

% Positive: Percentage of positive specimens reported during MMWR week 15, 2019.

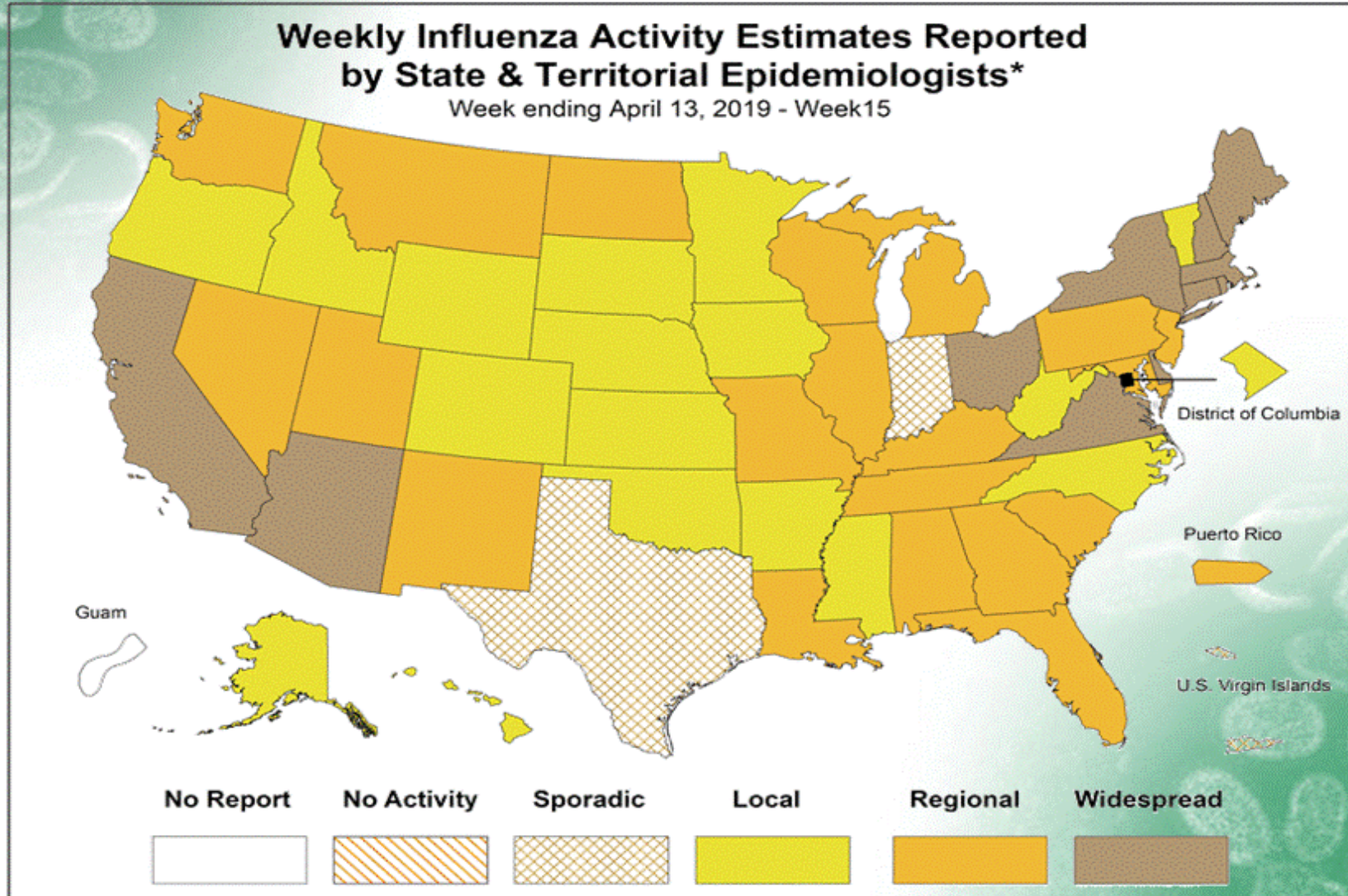
Baseline % Pos.: Percentage of positive specimens reported in MMWR week 15 during influenza seasons from September 2012 - May 2018.

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.

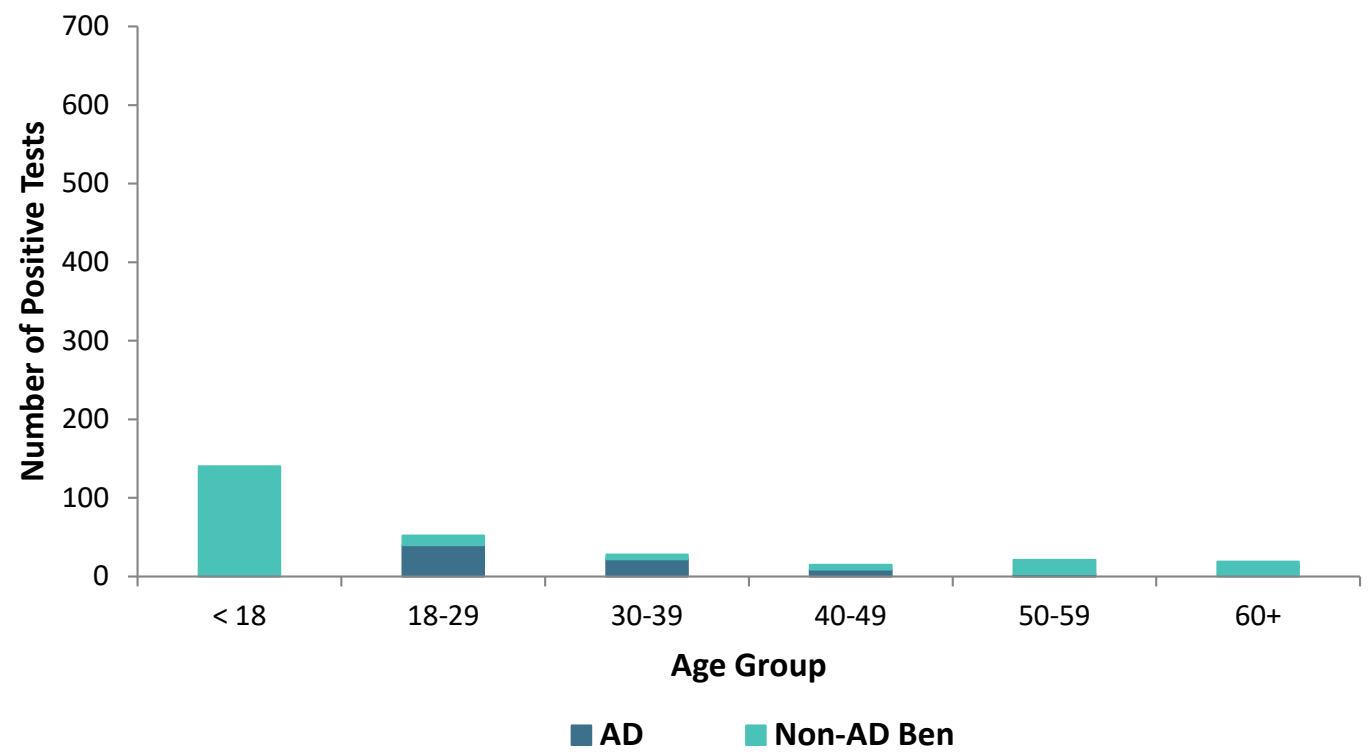
FLUVIEW

A Weekly Influenza Surveillance Report Prepared by the Influenza Division



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

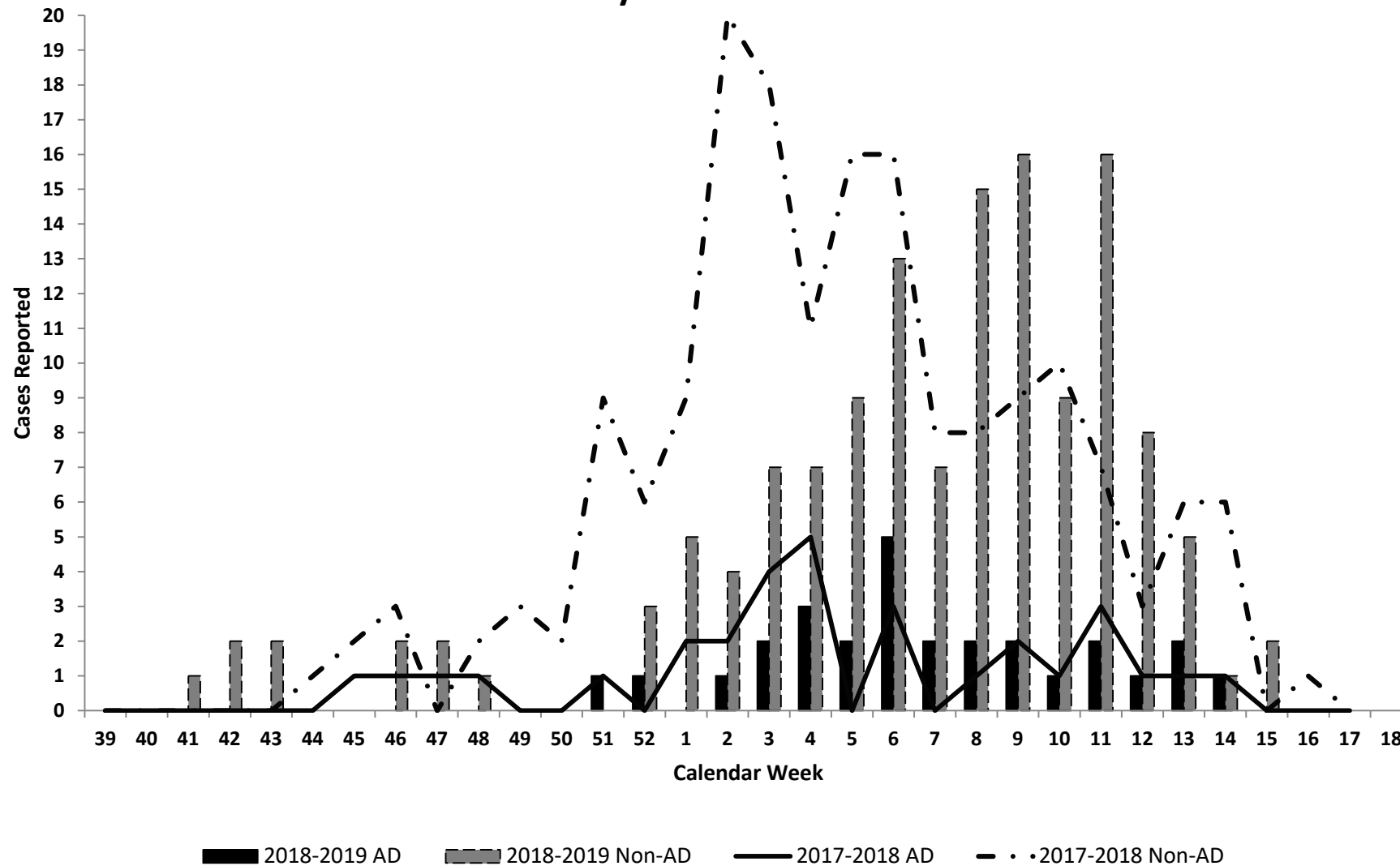
Positive Respiratory Specimen Results from Army MTFs by Age Group and Beneficiary Status, 2018-2019 Influenza Season



Week 15			
Age Group	AD	Non-AD Ben	Season Total
< 18	0	140	6374
18-29	40	12	1741
30-39	22	6	1188
40-49	9	6	749
50-59	3	18	535
60+	0	19	616
Total	74	201	11203



Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Date

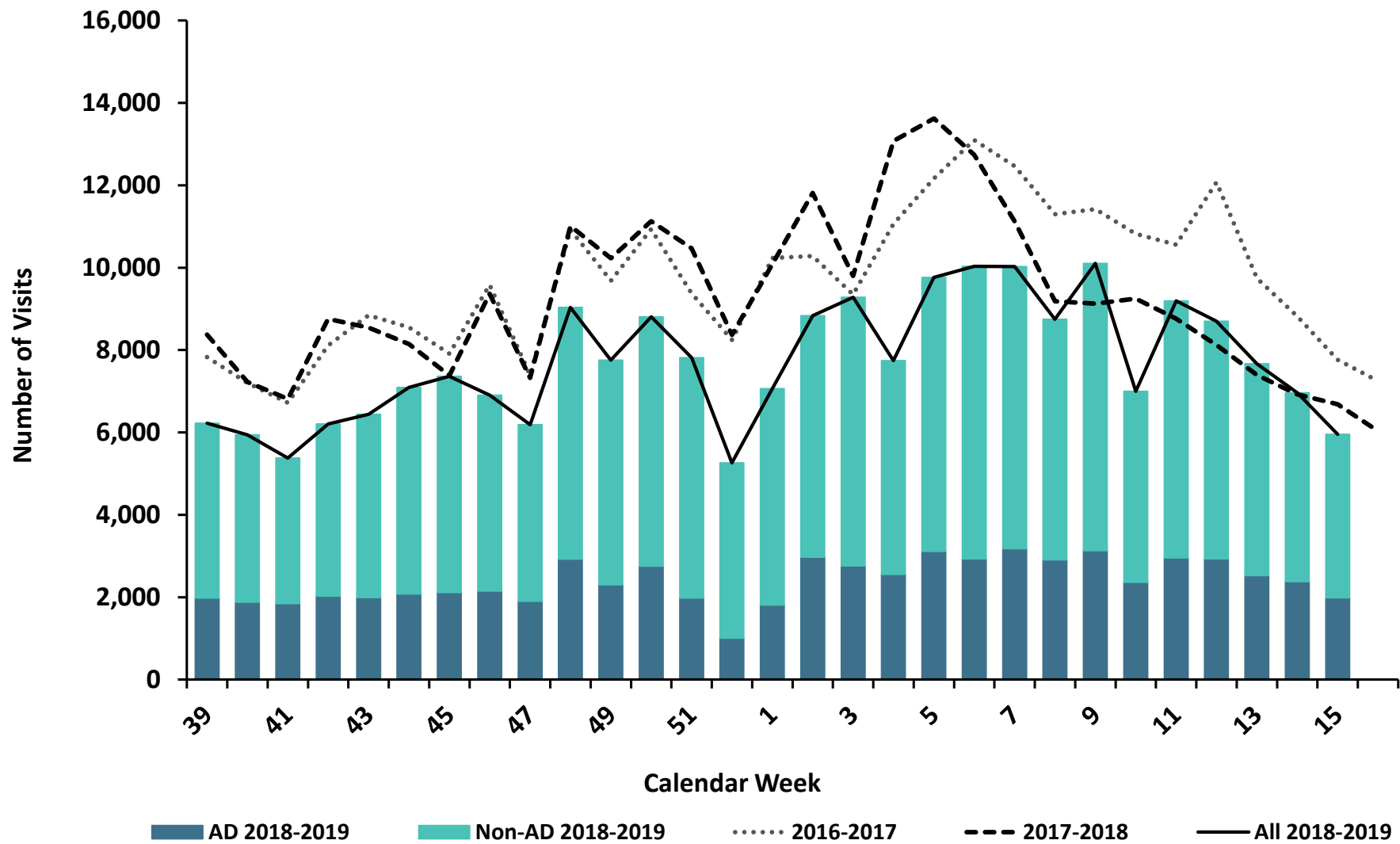


Note: Reportable influenza cases are defined as only cases that have been hospitalized and are under the age of 65. See [Armed Forces Reportable Medical Events Guidelines and Case Definitions](#) for more information.

Data as of 18 April 2019.

ESSENCE Weekly Outpatient Clinic Visits for Influenza-like Illness

Army MTFs, All Services, 2016-2019



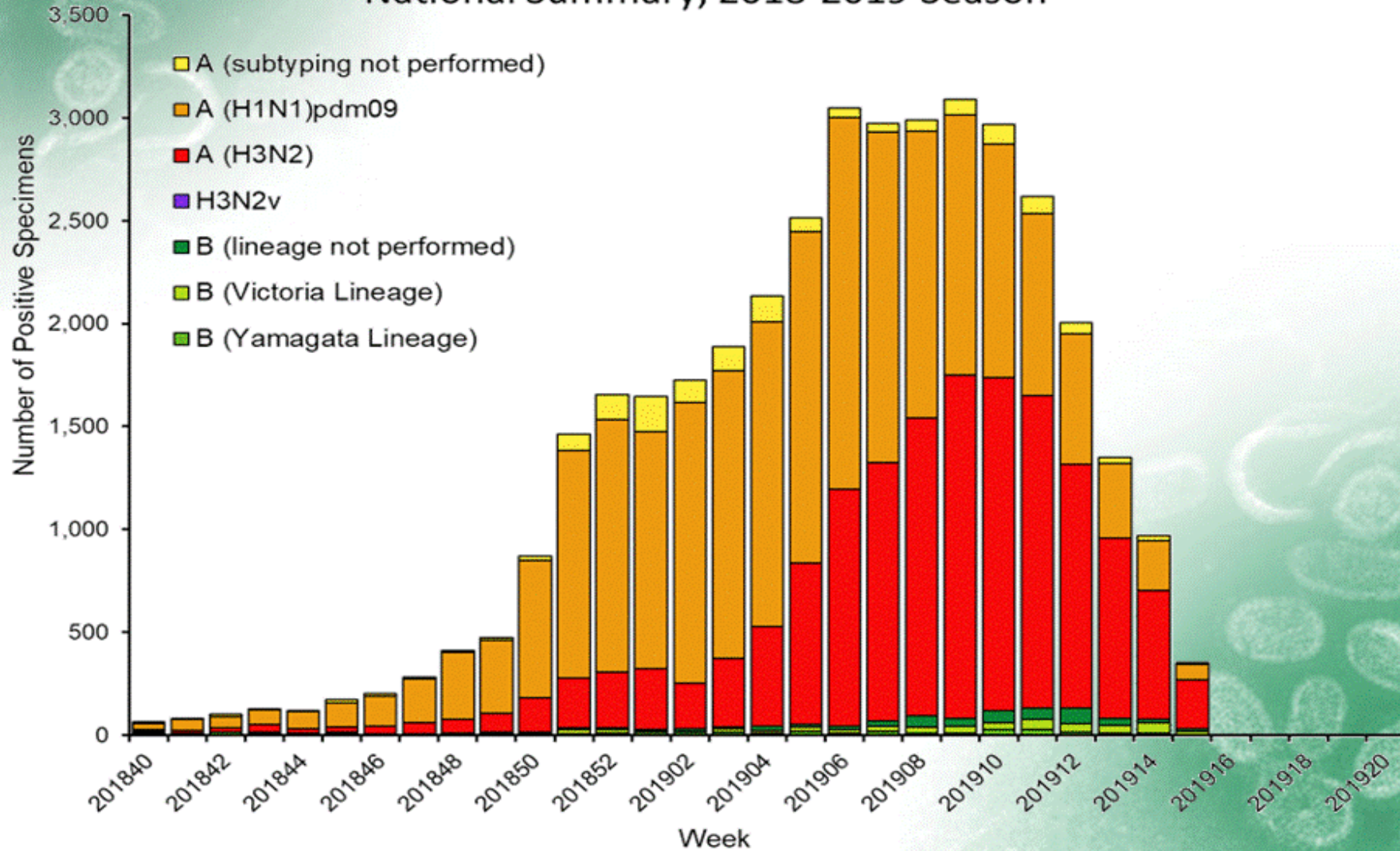
Clinic visits for ILI are obtained from ESSENCE. Data as of 18 April 2019.

FLUVIEW

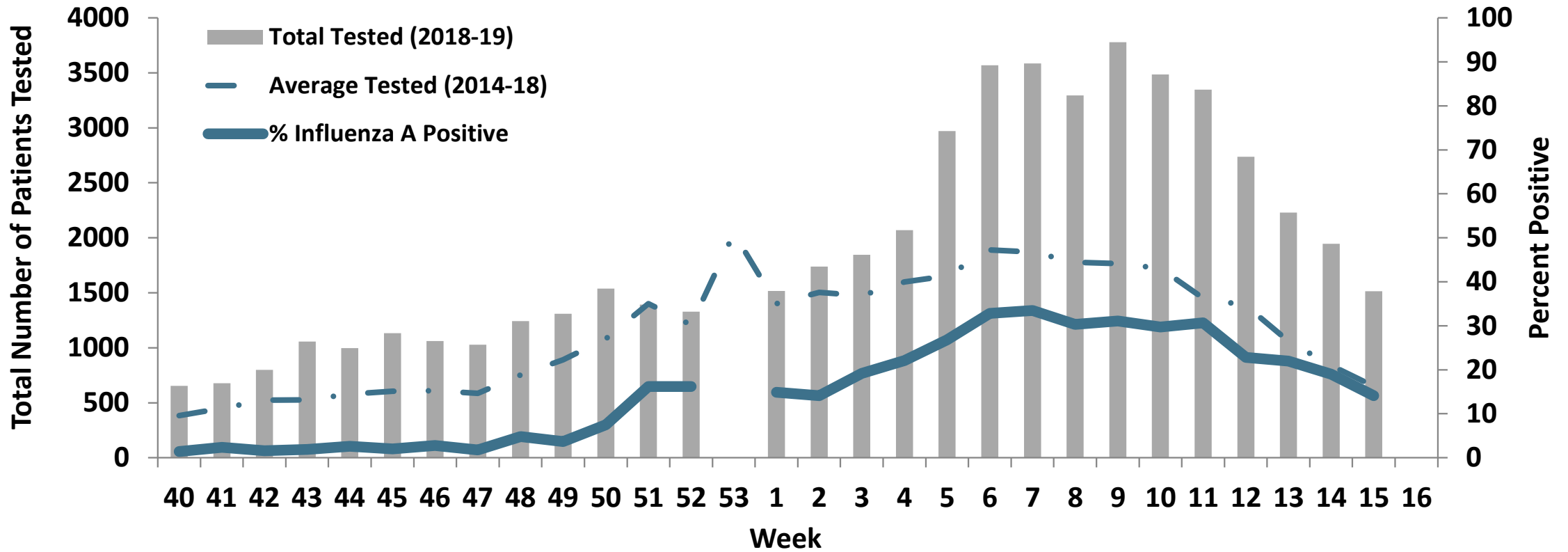


A Weekly Influenza Surveillance Report Prepared by the Influenza Division

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



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