

U.S. Army Public Health Center

Army Influenza Activity Report

Week ending 4 January 2020 (week 1)

Influenza Vaccination Coverage*

As of 9 January 2020

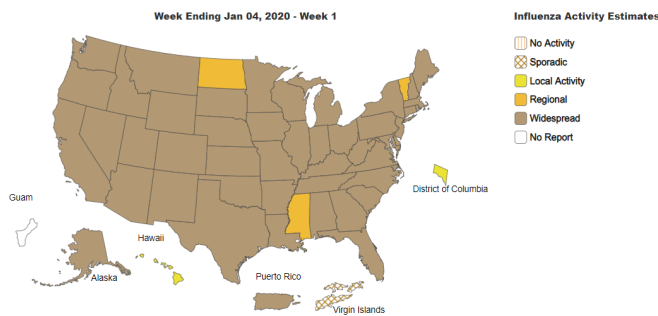
N/A	DoD
90%	Army Active Duty
80%	Army Guard
75%	Army Reserve

*Data Source: MEDPROS, ASIMS, MRRS

SUMMARY

The number of positive influenza A laboratory results decreased by 8.4% from week 52 of 2019 to week 1 of 2020 while the number of influenza B positive specimens decreased by 28.4%. Influenza A accounted for 45% of the total positive specimens, followed by influenza B with a 41.7%. In week 1, the average age of patients with any positive respiratory test was 26.5 years old. Ten influenza-associated hospitalizations were reported with an onset date in week 1. Of those hospitalized so far this season, 38 (59.3%) tested positive for influenza B, and 26 (40.6%) were positive for influenza A. A 220% increase in the number of hospitalizations was observed compared to the same week in the previous season.

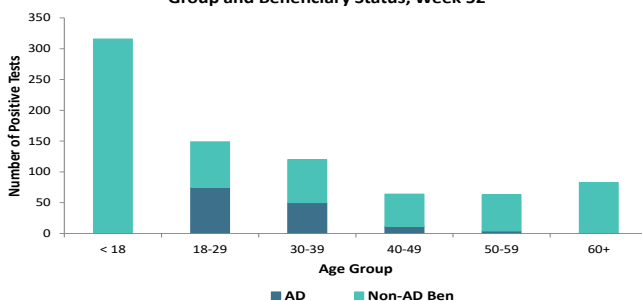
GEOGRAPHIC SPREAD



In week 1 of 2020 in the general U.S. population, widespread influenza activity was reported in Puerto Rico and 46 states; regional activity was reported in three states (Mississippi, North Dakota, and Vermont). Local activity was reported in the District of Columbia and Hawaii. Sporadic activity was reported in the U.S. Virgin Islands. Guam did not report.

DEMOGRAPHICS

Positive Respiratory Specimen Results from Army MTFs by Age Group and Beneficiary Status, Week 52

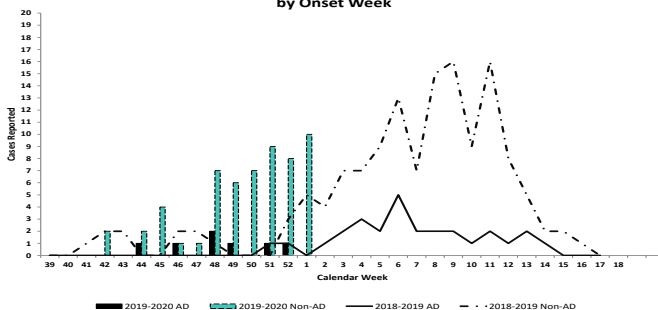


AD: Of the 795 patients with positive respiratory specimens in week 1, 142 (17.9%) were AD Service Members. The majority of positive specimens were from Soldiers between 18 to 29 years old (52.8% [n=75]).

Non-AD: 82.1% (n=653) of positive respiratory specimens were collected from non-AD individuals in week 1 of the year 2020. The majority of positive specimens came from those under age 18 (48% [n=316]).

INFLUENZA-ASSOCIATED HOSPITALIZATIONS

Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Week



As of 7 January, 10 influenza-associated hospitalizations were reported with onset dates in week 1. This season, 64 influenza-associated hospitalizations have been reported, with 38 (59.3%) testing positive for influenza B and 26 (40.6%) testing positive for influenza A. Among those hospitalized, 47 (73.4%) had not received the flu vaccine. The average age of hospitalized cases so far this season is 26.5 years old.* There have been more influenza-associated hospitalizations (n=64) reported this season than during the same period last season (n=20), a 220% increase.

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

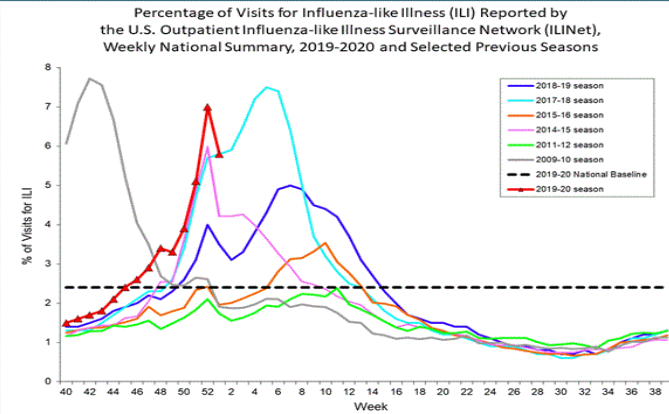
Additional Resources: [APHC Influenza Reports](#), [Centers for Disease Control](#), [Disease Reporting System internet](#), [ESSENCE](#)

Key: ILI-Influenza-Like Illness; DRSi- Disease Reporting System Internet; ADV-Adenovirus; RSV-Respiratory Syncytial Virus; SM-Service Member; MEDPROS- Medical Protection System; ASIMS- Aeromedical Services Information Management System; MRRS- Medical Readiness Reporting System

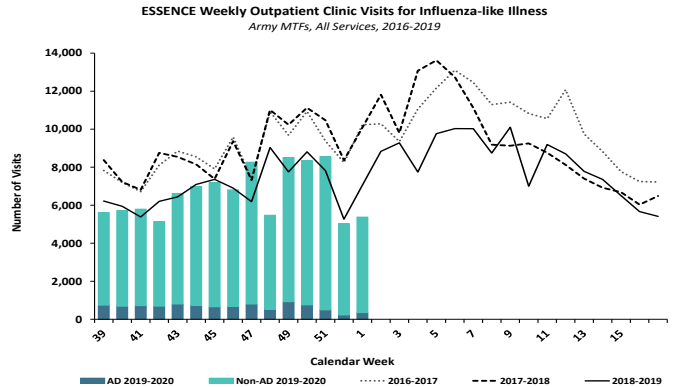
Questions?

[Email APHC](#)

ILI ACTIVITY - UNITED STATES



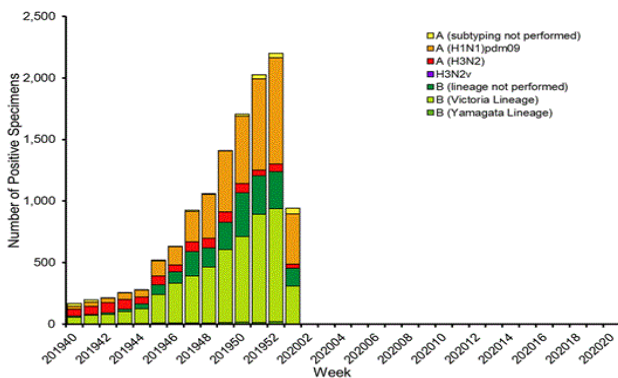
ILI ACTIVITY - ARMY



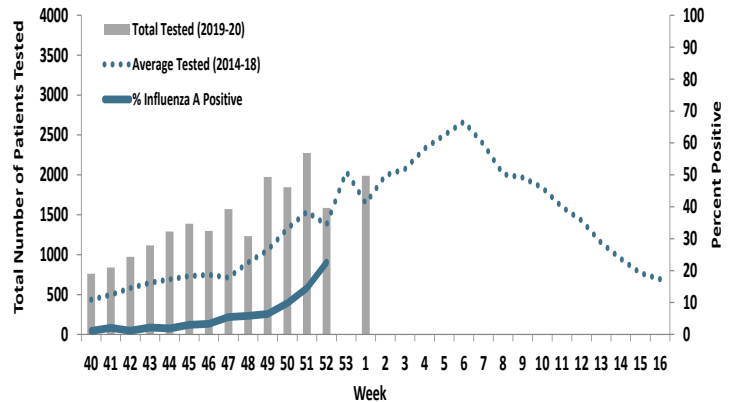
In week 1, 5.8% of outpatients visits nationwide were attributable to ILI. This percentage is above the national baseline (2.4%) and higher than the percentage reported in week 50 (3.9%). At Army medical treatment facilities, incident ILI activity experienced a slight increase (6.8%) compared to the previous week. This represents a 23.8% drop compared to the previous season.

LABORATORY RESPIRATORY SPECIMEN TESTING

Influenza Positive Tests Reported to CDC by U.S. Public Health Laboratories, National Summary, 2019-2020 Season



Proportion of Positive Influenza A Specimens for U.S. Army 2019-2020



Nationwide, 1,459 respiratory specimens were submitted to CDC during week 1; 64.5% were positive for influenza. Influenza A accounted for 51.8% of positive specimens, and influenza B accounted for 48.2%. In the Army population, 17.9% of the 1,989 specimens tested for influenza were positive. In week 1, influenza A accounted for 45% of the total positive tests submitted to the Army Public Health Center in week 1, whereas influenza B accounted for 41.8% of the positive laboratory results in week 1.

		Week 50	Week 51	Week 52	Week 1	Season Total
Test Types Among Positive Influenza A Specimens	RAT	59	194	212	174	825
	Culture	3	1	0	0	25
	PCR	119	141	179	184	825
Army MTF Laboratory Results, 2019-20	Influenza A	181	336	391	358	1723
	Influenza B	223	376	463	332	2322
	Adenovirus	6	10	6	4	119
	Enterovirus	0	0	0	0	7
	Parainfluenza	5	12	8	4	166
	RSV	119	179	112	97	1008
	Negative	3337	4314	3031	3481	40320
	Total	3871	5227	4011	4276	45665

Of the 4,276 respiratory lab results submitted in week 1, 795 (18.5%) were positive for any type of respiratory illness. Influenza A accounted for the majority of positive results, with 45% (n=358) of all positive lab results in week 1, closely followed by influenza B (41.8%, n=332). Both influenza A and B experienced a decrease in the number of positive tests compared to the previous, with a 8.4% and a 28.9% decrease, respectively. Parainfluenza, adenovirus, and RSV positive tests also decreased from week 52 to week 1 of 2020.

Locations providing week 1 laboratory data as of 8 January 2020: Ft. Belvoir, Ft Benning, 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 Meade, Ft Polk, Ft Riley, Ft Rucker, Ft Sam Houston, Ft Sill, Ft Stewart, Ft Wainwright, Landstuhl, Redstone Arsenal, Tripler, West Point, and Walter Reed.

*NOTE: Madigan AMC data is also received weekly, but cannot be included at this time due to reporting limitations from MHS Genesis.

LABORATORY RESPIRATORY SPECIMEN TESTING BY LOCATION

Region	Installation	Influenza A			Influenza B			Adenovirus		
		No. Tested	% Positive	Baseline % Positive	No. Tested	% Positive	Baseline % Positive	No. Tested	% Positive	Baseline % Positive
PHCA	Ft. Belvoir	373	12.3	9	218	28.4	0	91	3.3	3.5
	Ft. Benning	190	20.5	14.9	189	12.2	0			
	Ft. Bragg	80	26.3	15.7			100			
	Ft. Campbell	180	10	11.2	181	7.7	0			100
	Ft. Drum	7	14.3	0	2	100	100			100
	Ft. Eustis			16.7			100			
	Ft. Gordon	105	9.5	6.3	105	5.7	0			100
	Ft. Jackson	49	14.3	6.3	49	14.3	2.1			
	Ft. Knox	5	0	5.3	5	0	0			
	Ft. Lee	3	0	25						
	Ft. Meade	5	20	23.1						
	Ft. Rucker	9	11.1	50	9	11.1	0			
	Ft. Stewart	59	6.8	13	59	8.5	0			100
	Redstone Arsenal	12	0	6.7	12	0	0			
West Point Military Academy	4	75	10			0			100	
PHCC	Ft. Bliss	345	10.1	22.9	338	22.2	0.9			3.4
	Ft. Carson	88	5.7	12.6			100			
	Ft. Hood	25	4	4.5	23	0	4.5	22	0	
	Ft. Huachuca	3	0	16.7	3	0	0			
	Ft. Irwin	39	5.1	10.7	39	10.3	0			
	Ft. Leavenworth	27	33.3	13.3	27	3.7	0			
	Ft. Leonard Wood	65	6.2	4	65	7.7	0			
	Ft. Polk	44	27.3	18.2	5	100	100			
	Ft. Riley	97	10.3	7.7	97	20.6	0			
	Ft. Sam Houston	417	22.8	13.5	417	19.4	0.3			100
Ft. Sill	31	12.9	12.5	4	100	100				
PHCE	Landstuhl Reg. Med. Cen.	9	11.1	18.2	8	0	0	8	12.5	0
PHCP	Ft. Wainwright	72	23.6	0	73	15.1	0			
	Korea			25.5			0			2.8
	Tripler Army Medical Center	54	22.2	10.6	54	11.1	0	9	0	0
Region	Installation	Enterovirus			Parainfluenza			RSV		
		No. Tested	% Positive	Baseline % Pos.	No. Tested	% Positive	Baseline % Pos.	No. Tested	% Positive	Baseline % Pos.
PHCA	Ft. Belvoir				95	3.2	3.3	216	15.7	18.1
	Ft. Drum							1	0	0
	Ft. Stewart							7	28.6	9.1
PHCC	Ft. Bliss							335	12.5	8
	Ft. Carson							14	28.6	30.8
	Ft. Hood				24	4.2		23	0	61
	Ft. Leavenworth							1	0	41.7
	Ft. Polk							12	16.7	20
	Ft. Riley							31	38.7	19
Ft. Sill							1	0	0	
PHCE	Landstuhl Reg. Med. Cen.				8	0	1.9	12	8.3	12.1
PHCP	Ft. Wainwright							72	0	21.1
	Korea			0			2.8			2.8
	Tripler Army Medical Center	9	0	0	9	0	2.6			100

No.: Number of specimens tested during MMWR week 1 2020.

% Pos.: Percentage of positive specimens reported during MMWR week 1 2020.

Baseline % Pos.: Percentage of positive specimens reported in MMWR week 1 during influenza seasons from September 2012 - May 2019.

A Weekly Influenza Surveillance Report Prepared by the Influenza Division

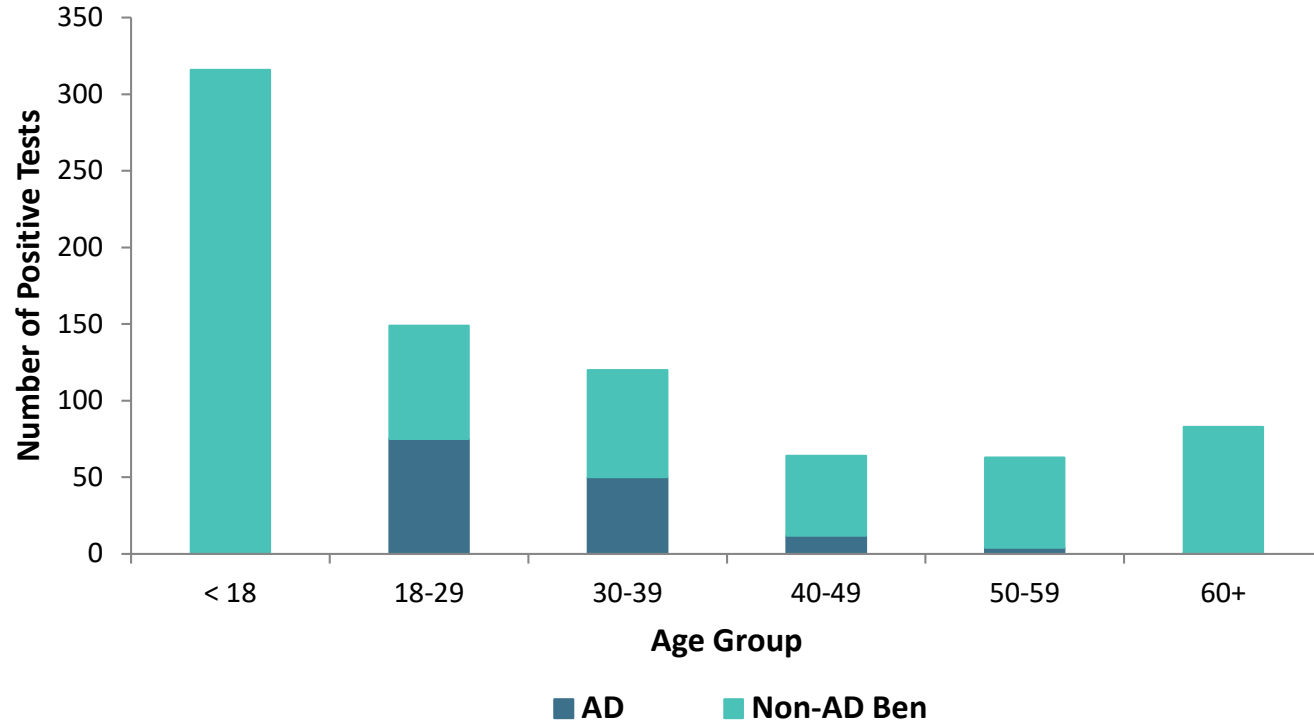
Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending Jan 04, 2020 - Week 1



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

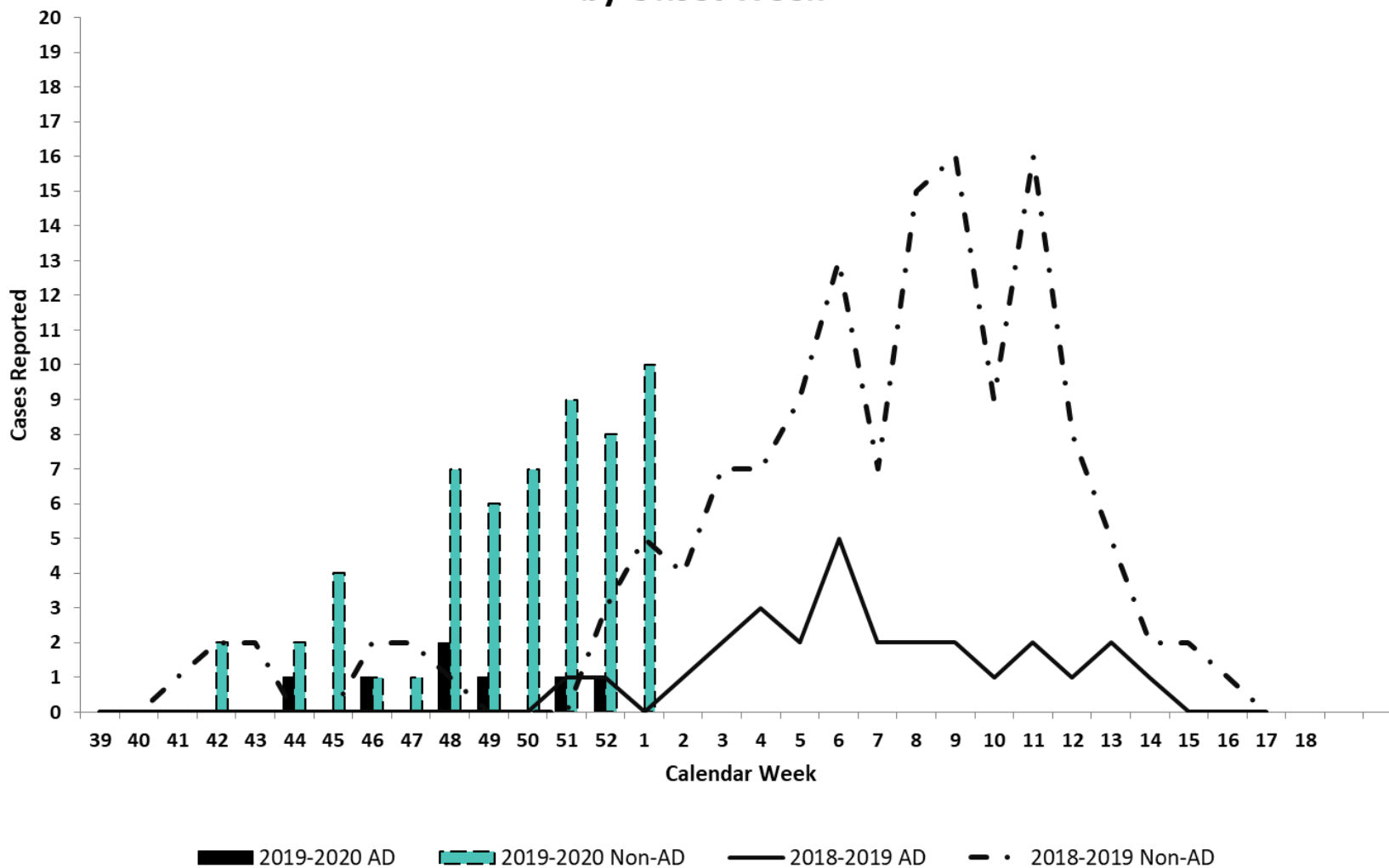
Positive Respiratory Specimen Results from Army MTFs by Age Group and Beneficiary Status, Week 52



Week 1			
Age Group	AD	Non-AD Ben	Season Total
< 18	0	316	3336
18-29	75	74	747
30-39	50	70	530
40-49	12	52	267
50-59	4	59	225
60+	1	82	240
Total	142	653	5345



Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Week



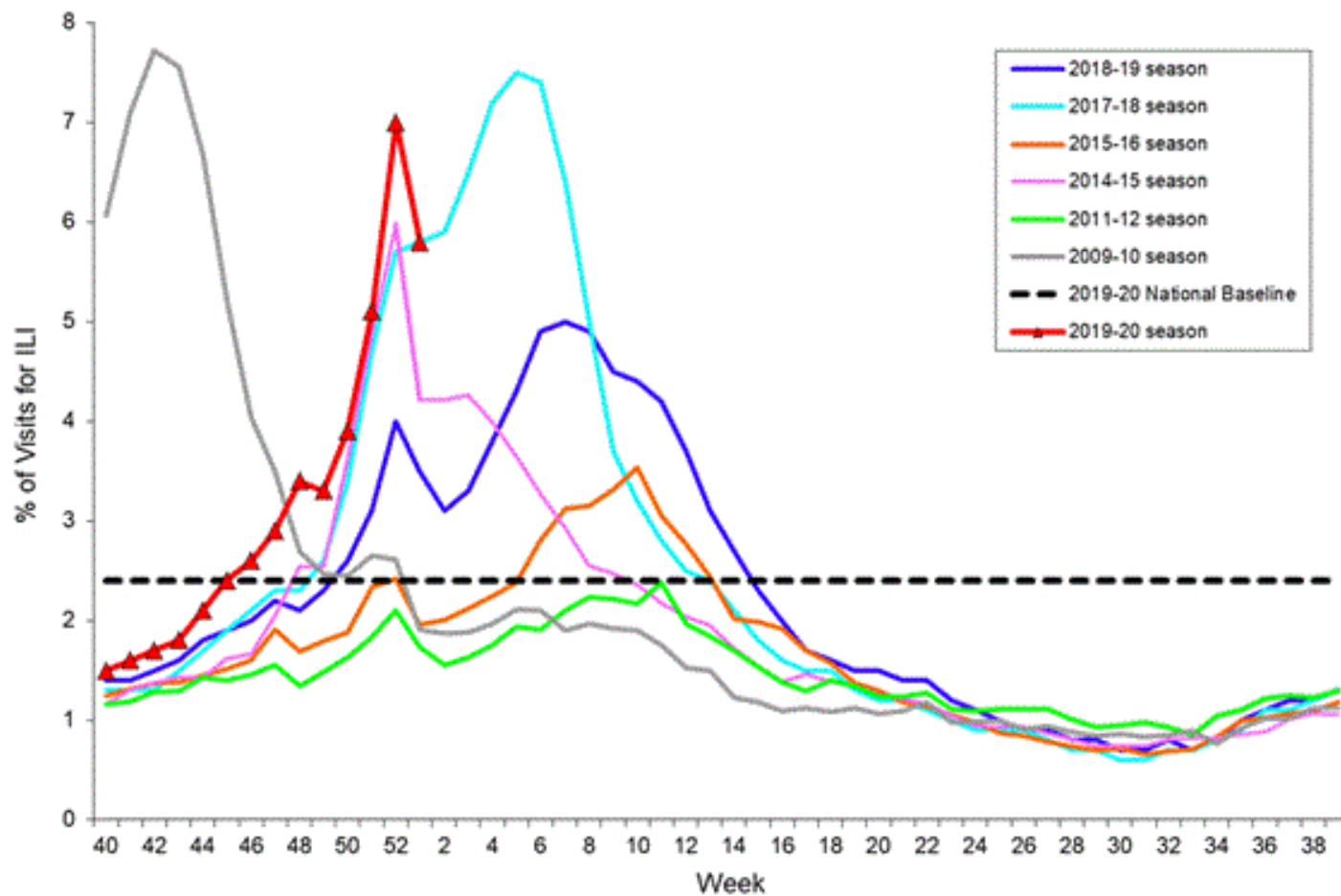
Note: Reportable influenza cases are defined as only cases that have been hospitalized and are under the age of 65.
Data as of 7 January 2020.

FLUVIEW



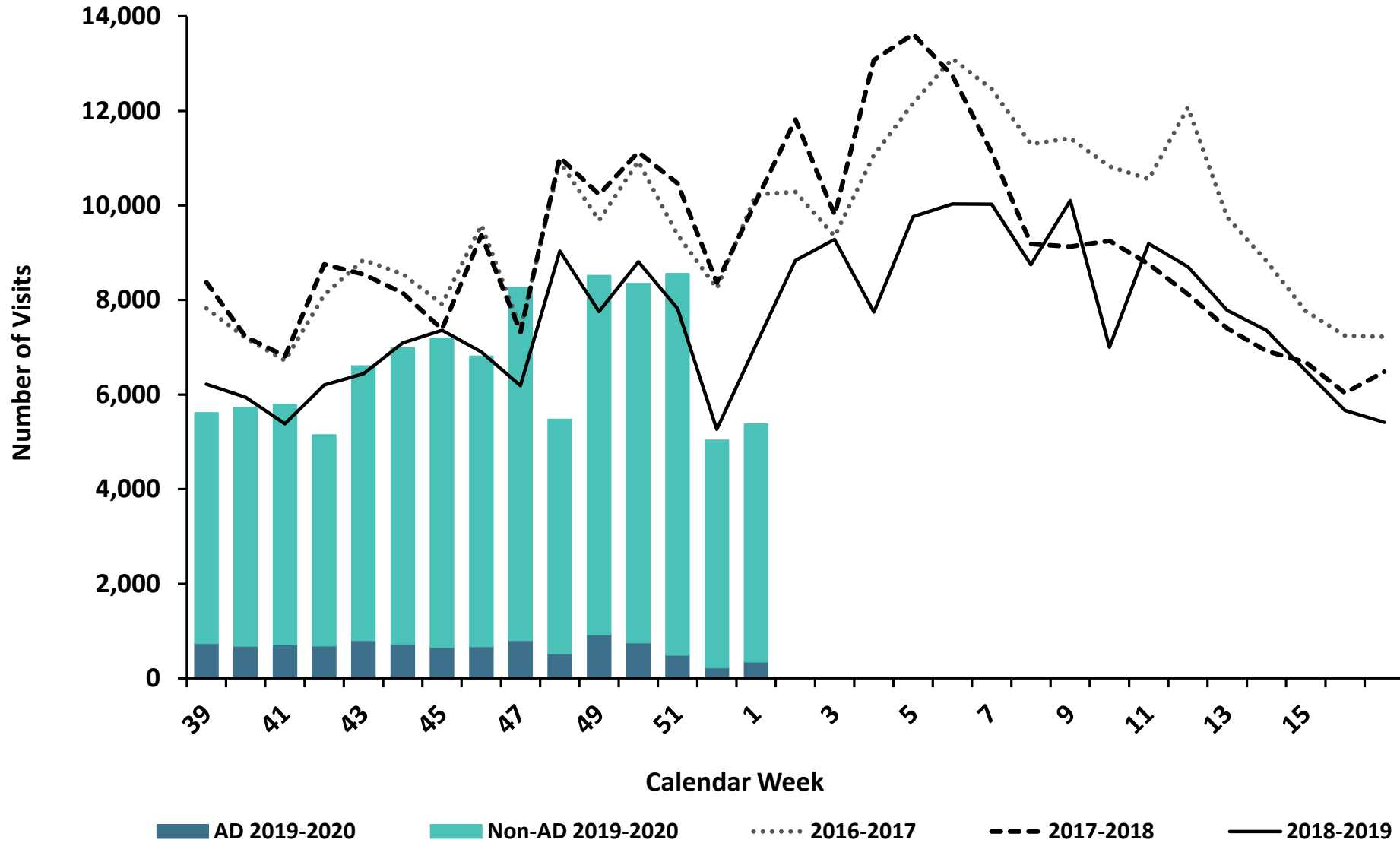
A Weekly Influenza Surveillance Report Prepared by the Influenza Division

Percentage of Visits for Influenza-like Illness (ILI) Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), Weekly National Summary, 2019-2020 and Selected Previous Seasons



ESSENCE Weekly Outpatient Clinic Visits for Influenza-like Illness

Army MTFs, All Services, 2016-2019

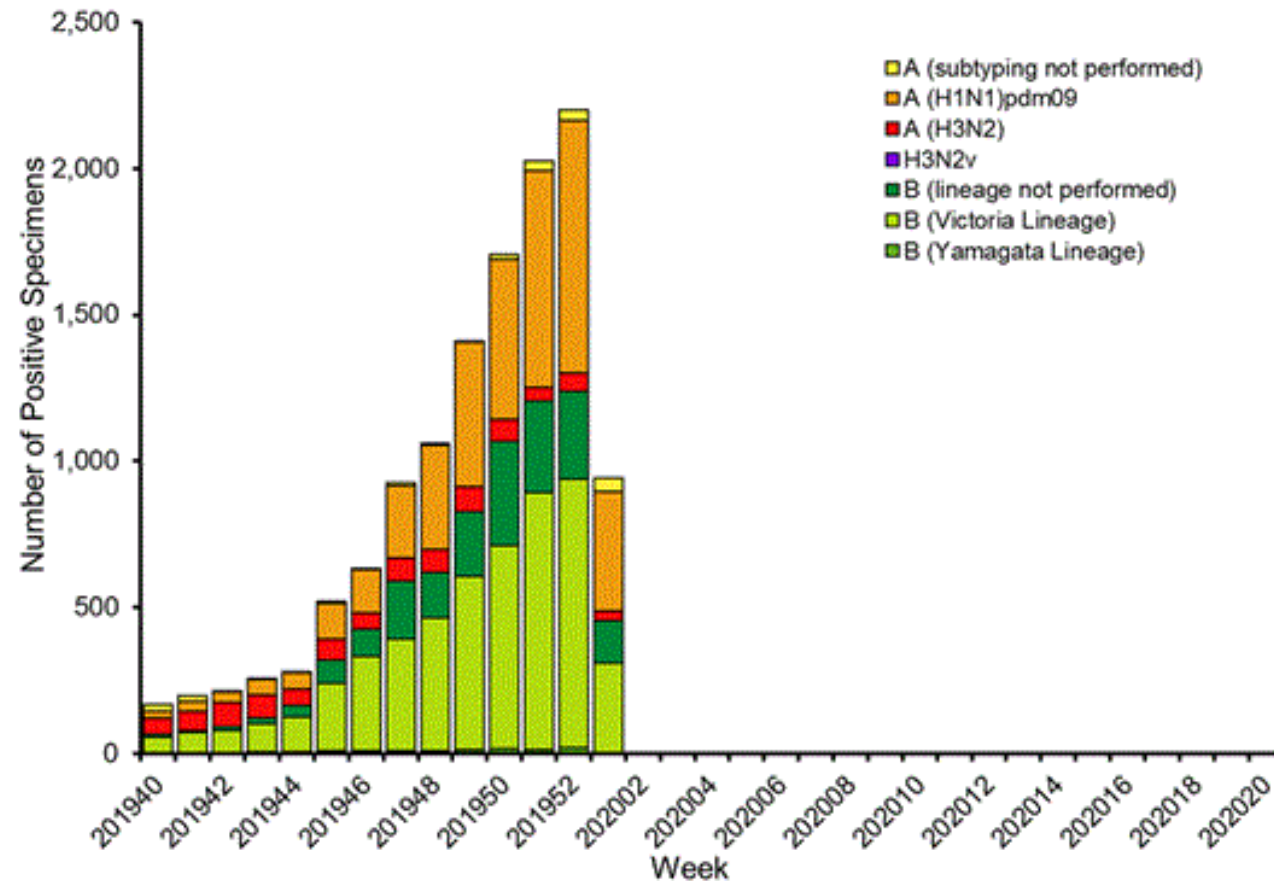


FLUVIEW

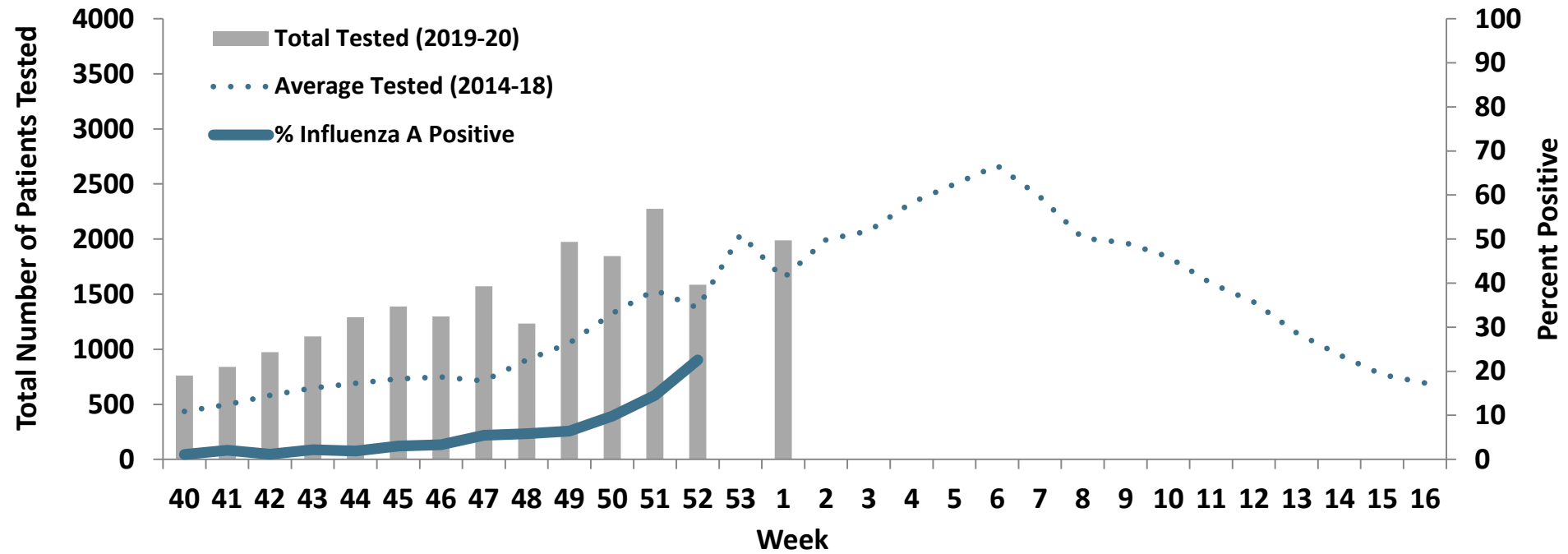


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