

U.S. Army Public Health Center

Army Influenza Activity Report

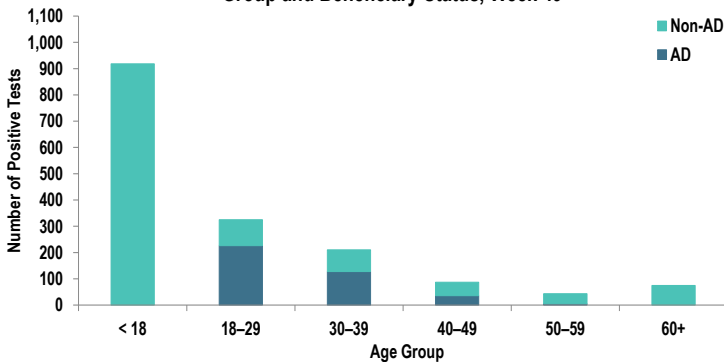
Week ending 10 December 2022 (Week 49)

SUMMARY

One thousand two hundred and ninety-four positive influenza A and 100 influenza B specimens were reported during surveillance Week 49. Additionally, 16 influenza-associated hospitalizations were reported in Week 49; the season total thus far is 100 compared to an average of 17 influenza-associated hospitalizations during the same time period during 2017–2020. Nationwide, influenza activity remains high, with 25.4% of specimens tested by clinical laboratories being positive for influenza A or B, according to the Centers for Disease Control and Prevention (CDC). As we're approaching the holidays that typically involve social events, it is strongly recommended to get the flu vaccine, despite it being later in the season. In addition to reducing the chances of severe outcomes if infected, the vaccine aids in reducing the spread of influenza.

DEMOGRAPHICS

Positive Respiratory Specimen Results from Army MTFs by Age Group and Beneficiary Status, Week 49



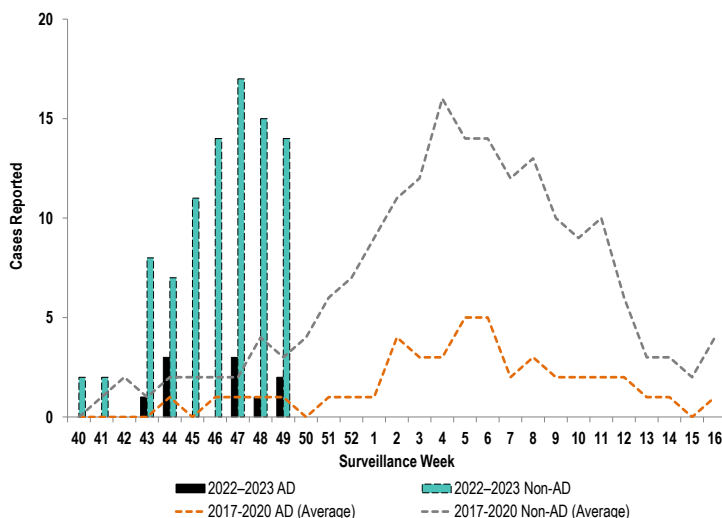
AD: Three hundred and ninety-five positive respiratory specimens were collected from AD Service members (SMs) during Week 49; 57.2% (n=226) of the positive specimens were collected from SMs 18 – 29 years of age.

Non-AD: One thousand two hundred and sixty-three positive respiratory specimens were collected from non-AD individuals during Week 49; 72.7% (n=918) of the positive specimens were collected from individuals under 18 years of age.

The age and beneficiary status of some cases were not available. Therefore, all calculations involving these variables were conducted using only available data. Differences in total results, and age- and beneficiary status-specific results may be noted throughout the report.

INFLUENZA-ASSOCIATED HOSPITALIZATIONS

Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Week



Sixteen influenza-associated hospitalizations among two AD service members and fourteen non-service members with an onset date in Week 49 were reported to the Disease Reporting System internet (DRSi). The season total thus far is 100 hospitalizations. The Week 49 average during the 2017–2020 seasons was three hospitalizations (with an average of 17 hospitalizations reported from the start of the season through Week 49).

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

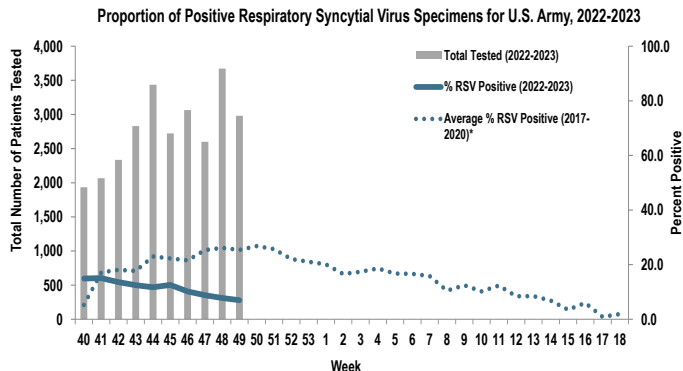
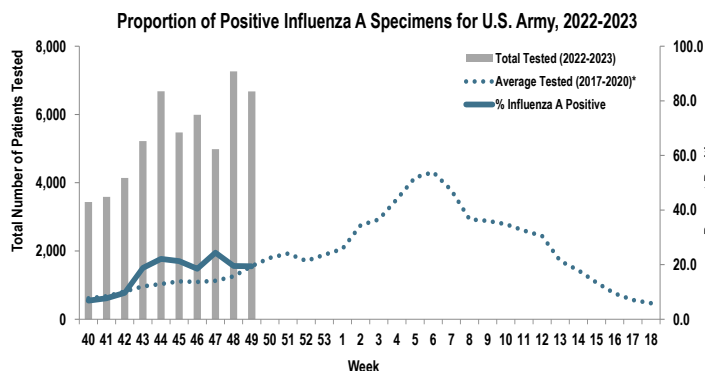
Data are preliminary and subject to change.

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Questions?
[Email APHC DEP](mailto:APHC@army.mil)

INFLUENZA A ACTIVITY - ARMY

RSV ACTIVITY - ARMY



Of the 6,674 specimens tested for influenza A during Week 49, 1,294 (19.4%) were positive. There was no change in percent-positivity since week 48.

Of the 2,981 specimens tested for RSV during Week 49, 208 (7.0%) were positive. This is a decrease of less than one percentage point from Week 48 (7.8%).

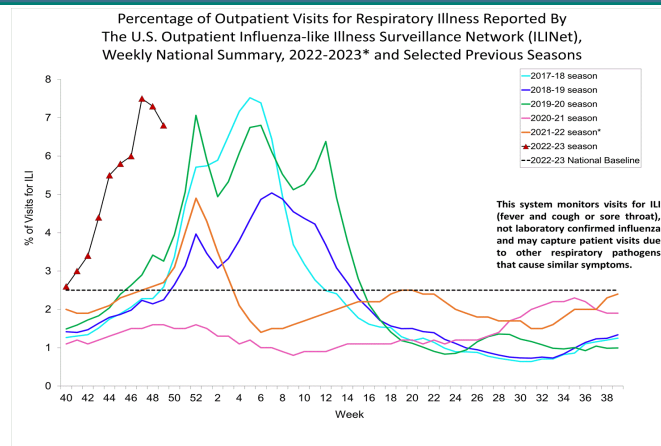
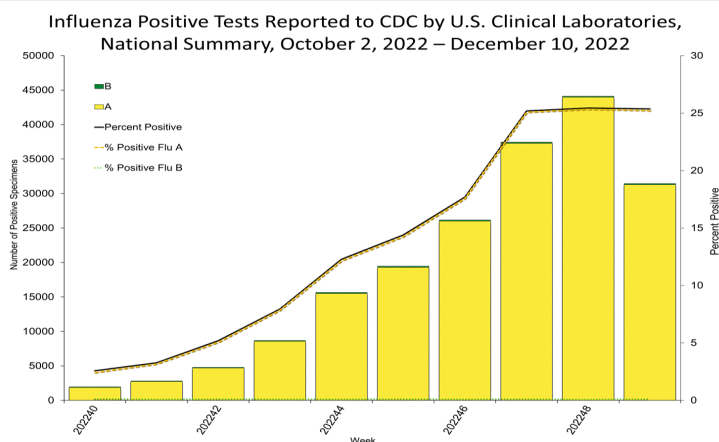
Data from the 2020–2021 and 2021–2022 influenza seasons are not included in comparison calculations due to the unusually low incidence of influenza.

		Week 46	Week 47	Week 48	Week 49	Season Total
Army MTF Laboratory Results, 2022-23	Adenovirus	10	22	31	27	168
	Enterovirus	39	26	32	29	211
	Influenza A	1,123	1,348	1,503	1,294	9,832
	Influenza B	29	36	56	100	338
	Parainfluenza	41	28	35	24	320
	RSV	336	243	309	208	3,143
	Negative	4,765	3,934	5,909	5,110	41,774
	Total	6,343	5,637	7,875	6,792	55,786

Of the 6,792 specimens tested during Week 49, 22.6% (n=1,682) were positive for any type of respiratory illness. Influenza A accounted for 76.9% (n=1,294), RSV accounted for 12.4% (n=208), influenza B accounted for 5.9% (n=100), enterovirus accounted for 1.7% (n=29), adenovirus accounted for 1.6% (n=27), and parainfluenza accounted for 1.4% (n=24). Additionally, the reported number of specimens tested decreased by 13.8% from Week 48 to Week 49.

Significantly more tests for influenza have been conducted this season compared to past seasons; 53,444 specimens have been tested for influenza A so far this season compared to the average of 10,235 specimens during the same time period in 2017-2020.

INFLUENZA-LIKE ILLNESS (ILI) ACTIVITY - UNITED STATES



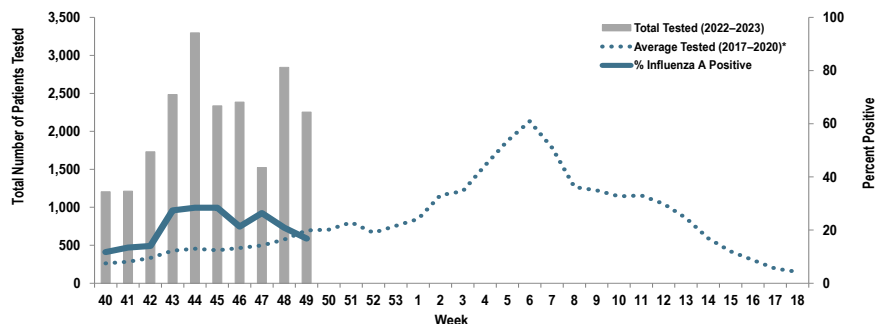
Nationwide in Week 49, incident ILI activity was 6.9%; this is above the national baseline of 2.5%. Additionally, a total of 123,987 specimens were tested for influenza by select clinical laboratories and submitted to the CDC; 31,442 (25.4%) were positive. Influenza A accounted for 99.5% (n=31,287) of the total positive specimens.

Locations providing Week 49 laboratory data as of 15 December 2022: Ft. Benning, Ft. Bliss, Ft. Bragg, Ft. Campbell, Ft. Carson, Ft. Drum, Ft. Eustis, Ft. Gordon, Ft. Hood, Ft. Huachuca, Ft. Jackson, Ft. Knox, Ft. Leavenworth, Ft. Lee, Ft. Leonard Wood, Ft. Lewis, Ft. Meade, Ft. Polk, Ft. Riley, Ft. Rucker, Ft. Sam Houston, Ft. Sill, Ft. Stewart, Ft. Wainwright, Korea, Landstuhl Regional Medical Center, Redstone Arsenal, Tripler Army Medical Center, the U.S. Military Academy, and Walter Reed National Military Medical Center.

*Results should be interpreted with caution as data from multiple labs were unavailable at the time of data analysis.

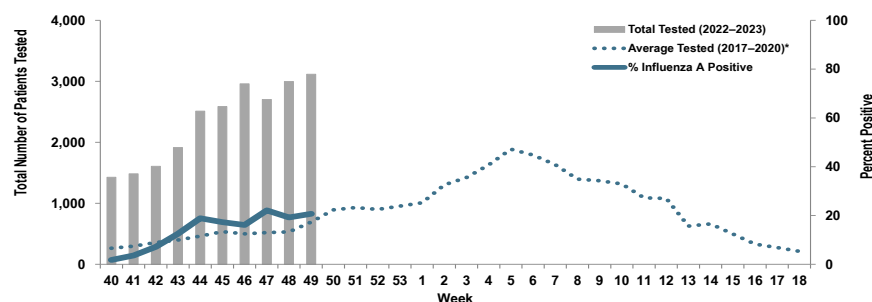
Proportion of Influenza A Positive Specimens by Week and Region, Army Medical Laboratories, 2022–2023 as Compared to 2017–2020*

Regional Health Command - Atlantic (RHC-A)



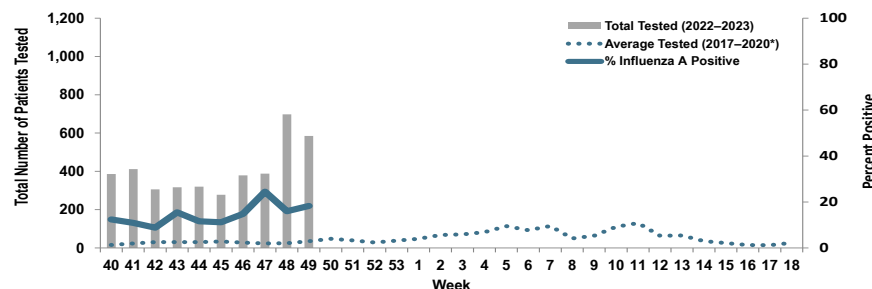
Week 49			
Age Group	AD	Non-AD	Season Total
< 18	0	169	2,527
18–29	70	29	1,066
30–39	29	11	586
40–49	12	9	276
50–59	4	10	159
60+	0	13	196
Total	115	241	4,810

Regional Health Command - Central (RHC-C)



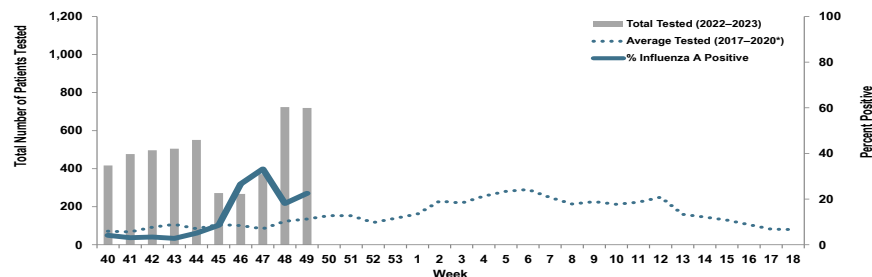
Week 49			
Age Group	AD	Non-AD	Season Total
< 18	0	363	1,924
18–29	71	42	791
30–39	50	35	429
40–49	9	28	222
50–59	0	14	136
60+	0	33	225
Total	130	515	3,727

Regional Health Command - Europe (RHC-E)



Week 49			
Age Group	AD	Non-AD	Season Total
< 18	0	66	371
18–29	12	3	119
30–39	9	7	77
40–49	4	4	31
50–59	0	2	8
60+	0	0	5
Total	25	82	611

Regional Health Command - Pacific (RHC-P)



Week 49			
Age Group	AD	Non-AD	Season Total
< 18	0	70	285
18–29	20	9	141
30–39	16	19	104
40–49	5	3	39
50–59	0	6	21
60+	0	14	64
Total	41	121	654

*2017–2018 influenza season - 2019–2020 influenza season. Data from the 2020–2021 and 2021–2022 influenza seasons are not included in comparison calculations due to the unusually low incidence of influenza.

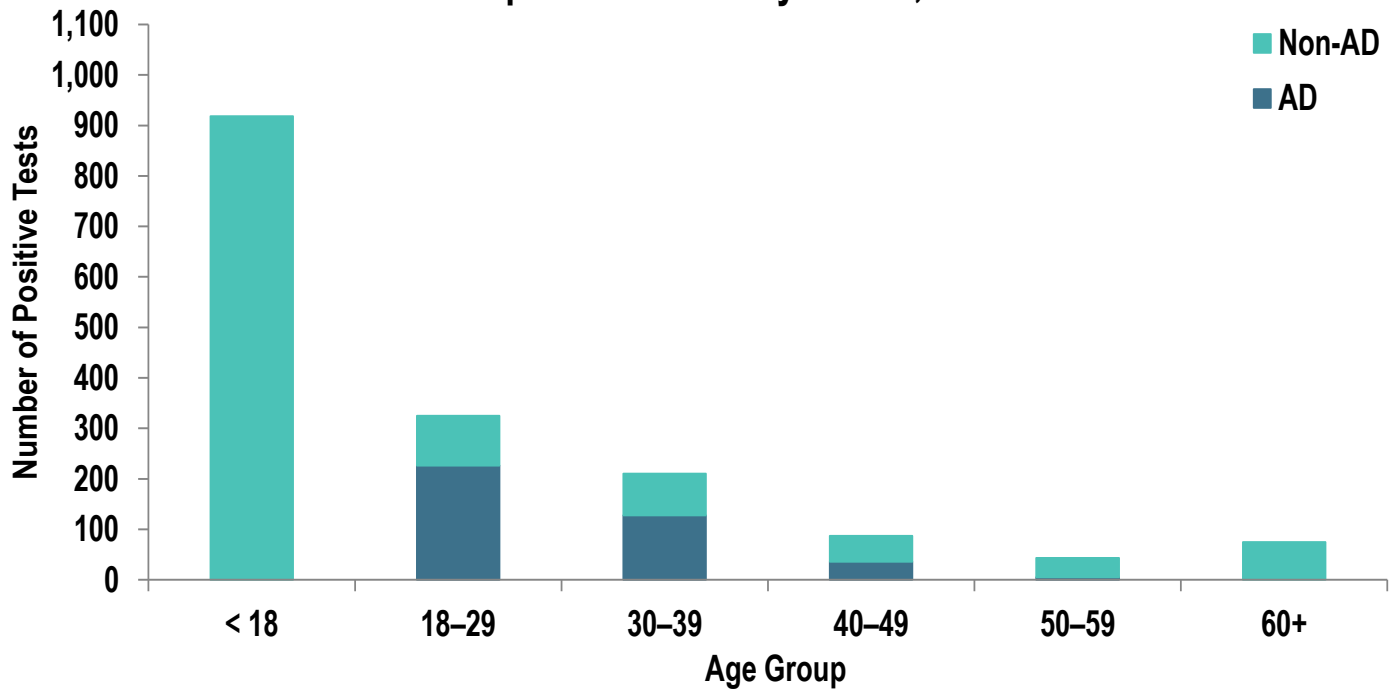
Number of Positive Influenza A Specimens by Region and Duty Status

Region	Week 46		Week 47		Week 48		Week 49	
	AD	Non-AD	AD	Non-AD	AD	Non-AD	AD	Non-AD
RHC-A	140	367	118	399	261	344	115	242
RHC-C	107	370	118	480	193	457	130	516
RHC-E	8	48	20	75	26	90	25	82
RHC-P	19	64	23	115	36	95	41	121

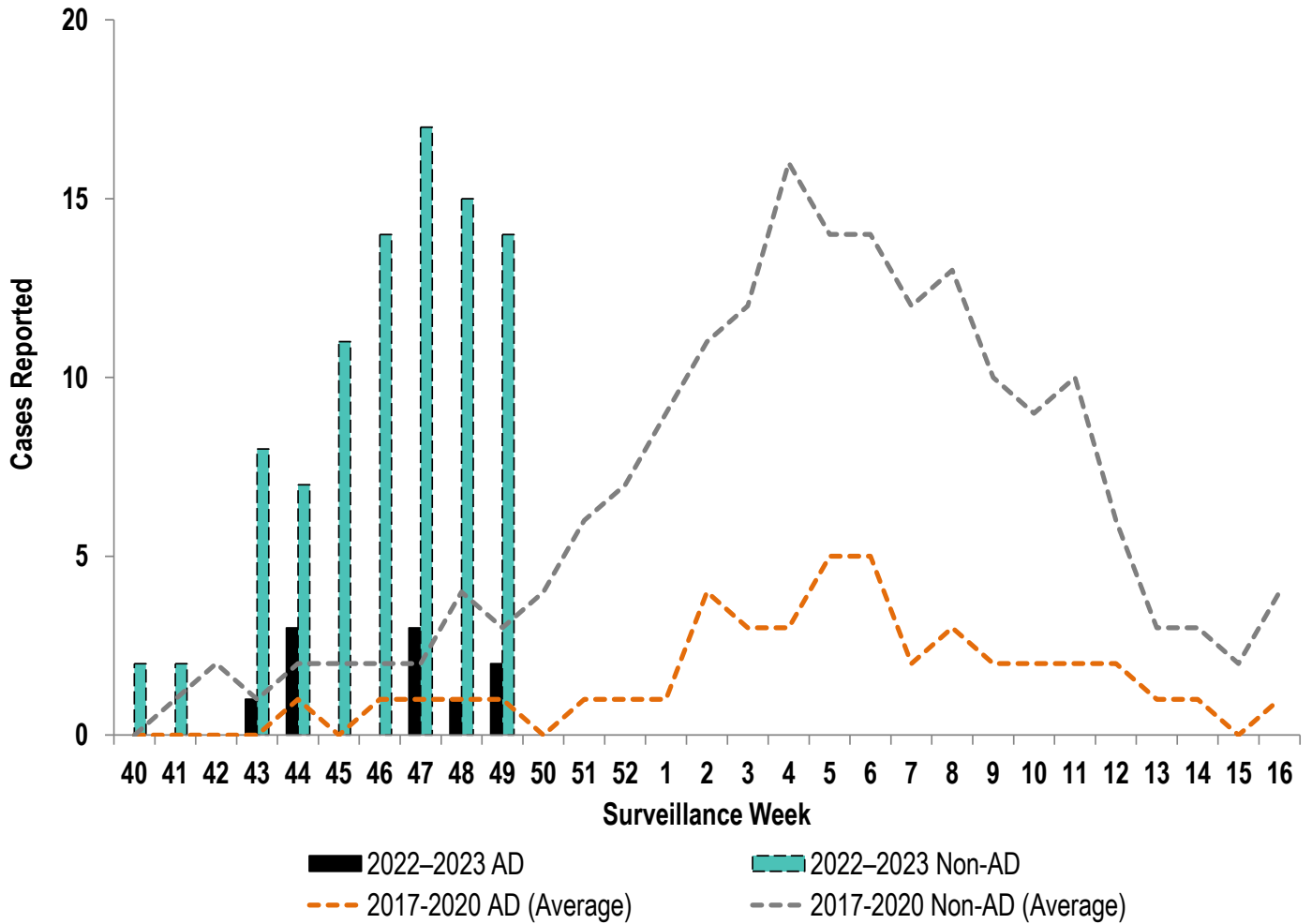
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Positive Respiratory Specimen Results from Army MTFs by Age Group and Beneficiary Status, Week 49



Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Week

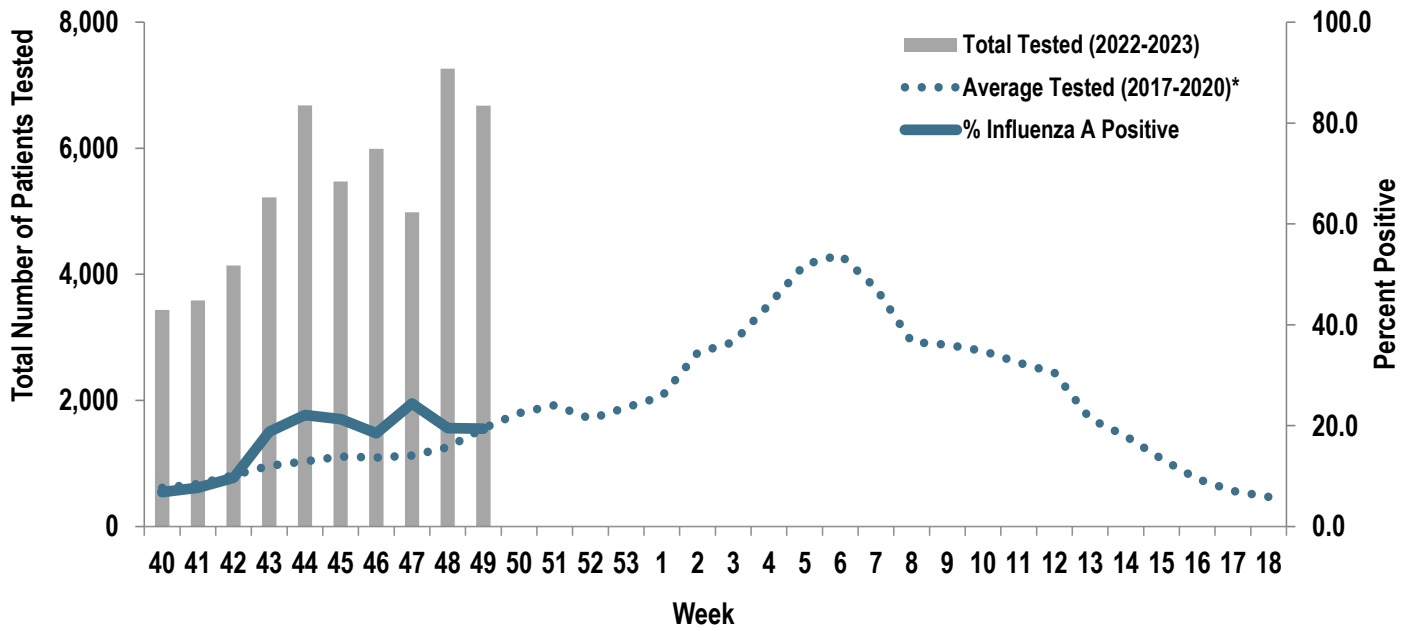


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Proportion of Positive Influenza A Specimens for U.S. Army, 2022-2023



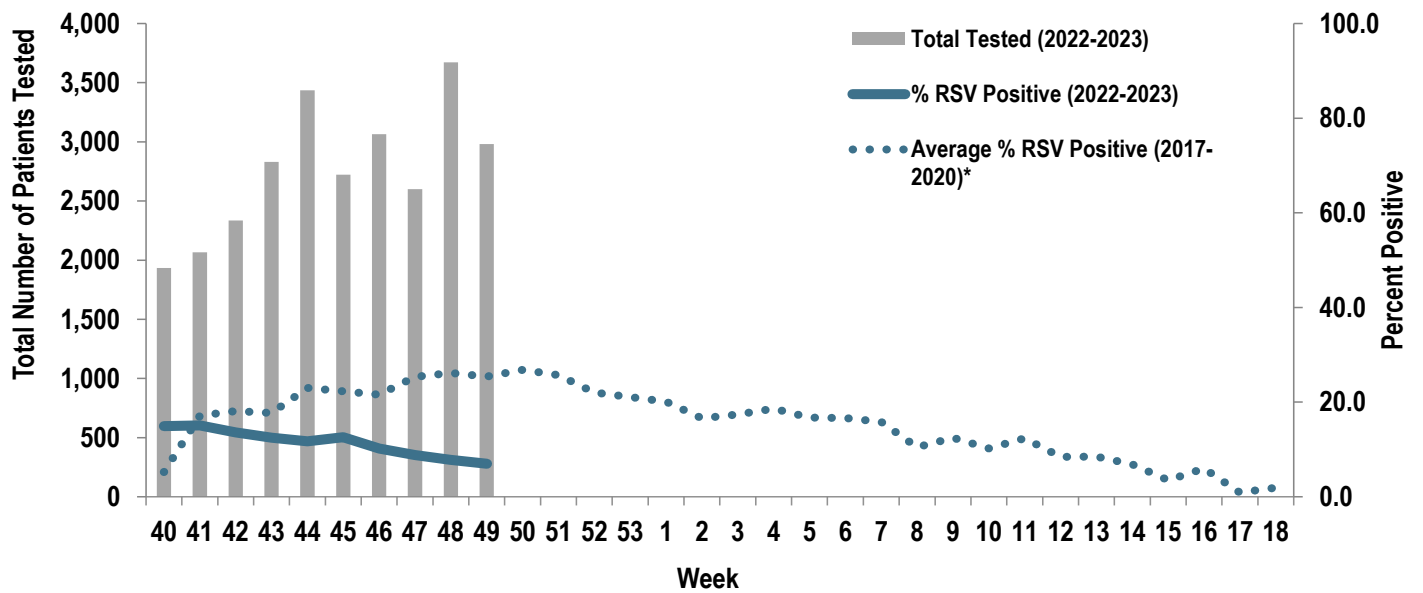
*2017–2018 influenza season - 2019–2020 influenza season. Data from the 2020–2021 and 2021–2022 influenza seasons are not included in comparison calculations due to the unusually low incidence of influenza.

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Proportion of Positive Respiratory Syncytial Virus Specimens for U.S. Army, 2022-2023



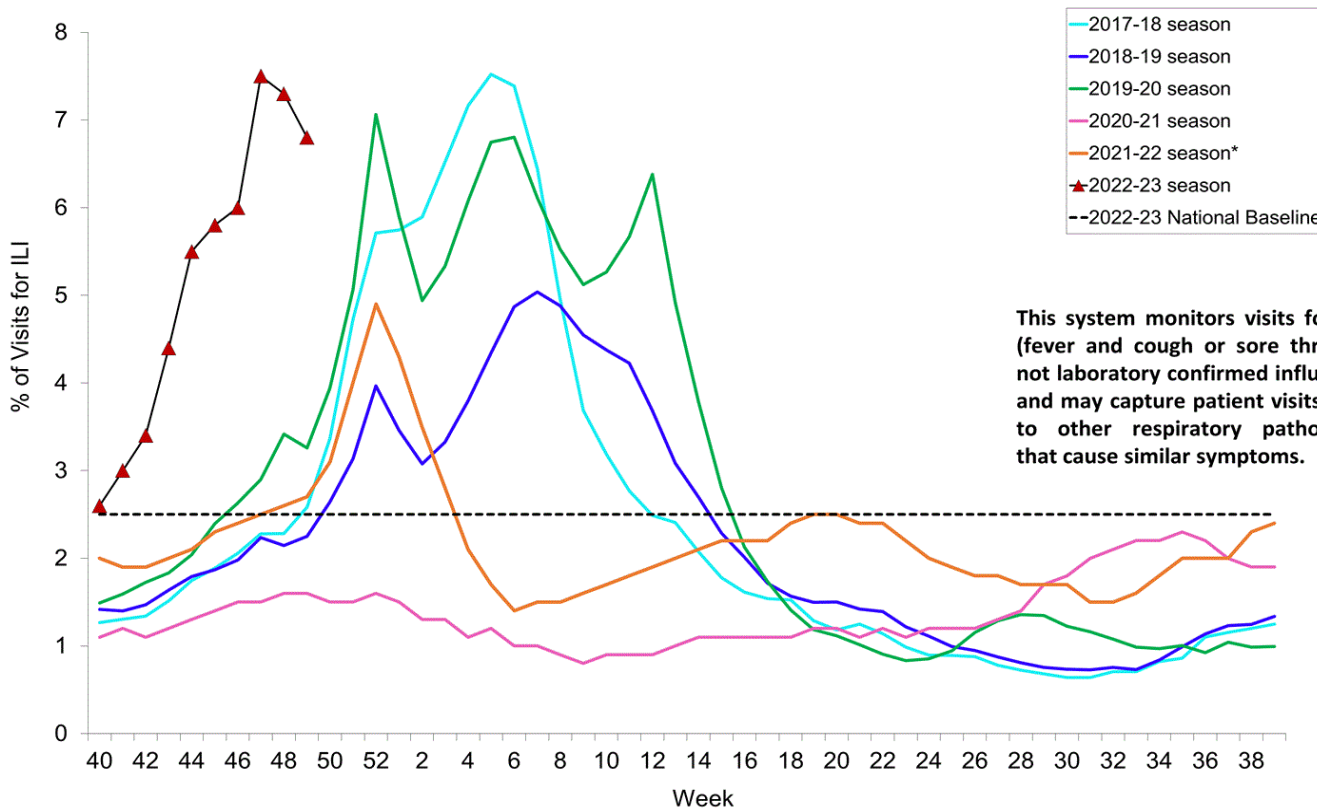
*2017–2018 influenza season - 2019–2020 influenza season. Data from the 2020–2021 and 2021–2022 influenza seasons are not included in comparison calculations due to the unusually low incidence of influenza.

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Percentage of Outpatient Visits for Respiratory Illness Reported By The U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), Weekly National Summary, 2022-2023* and Selected Previous Seasons



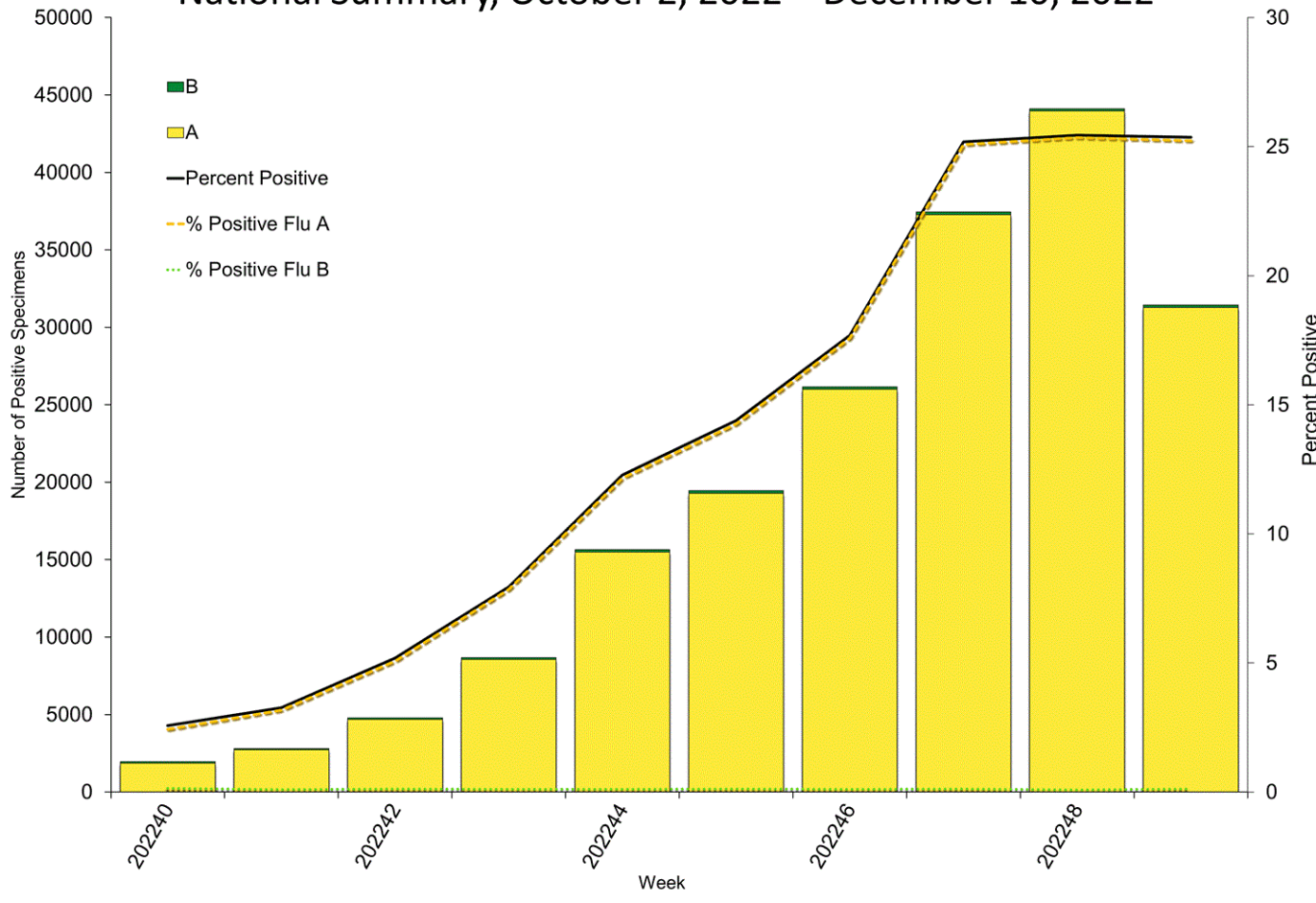
Source: Centers for Disease Control and Prevention (CDC)

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Influenza Positive Tests Reported to CDC by U.S. Clinical Laboratories, National Summary, October 2, 2022 – December 10, 2022



Source: Centers for Disease Control and Prevention (CDC)