

U.S. Army Public Health Center

# Army Influenza Activity Report

Week ending 7 December 2019 (week 49)

## Influenza Vaccination Coverage\*

As of 7 December 2019

|     |                  |
|-----|------------------|
| N/A | DoD              |
| 78% | Army Active Duty |
| 68% | Army Guard       |
| 69% | Army Reserve     |

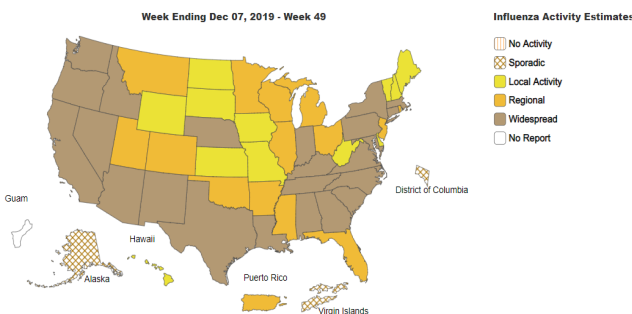
\*Data Source: MEDPROS, ASIMS, MRRS

## SUMMARY

Influenza B continues to be the most common positive respiratory pathogen circulating, both nationally as reported by the Centers for Disease Control and Prevention, and within the Army population. In week 49, 40% of positive results submitted were positive for influenza B, followed by 31% that were positive for influenza A. So far this season, nearly 70% of the reported hospitalizations tested positive with influenza B. At Army medical treatment facilities, influenza-like illness activity increased from week 48 to week 49 by 53%. Public Health Command-Central has the highest burden of positive influenza results in week 49.

## GEOGRAPHIC SPREAD

Click to enlarge image

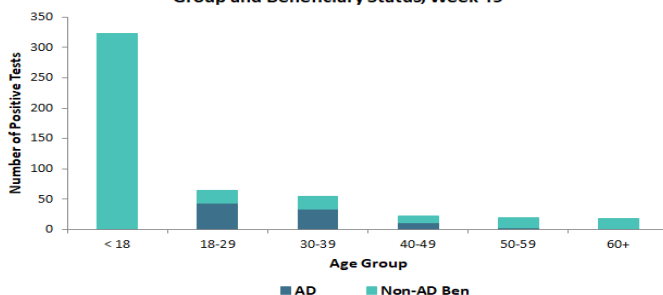


In week 49, the number of jurisdictions reporting regional or widespread activity increased to 38 from 30 in the previous week.

In week 49, widespread influenza activity was reported in 23 states. Regional activity was reported in Puerto Rico and 14 states. Local activity was reported in 12 states. Sporadic activity was reported in the District of Columbia, U.S. Virgin Islands, and Alaska. Guam did not report.

## DEMOGRAPHICS

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

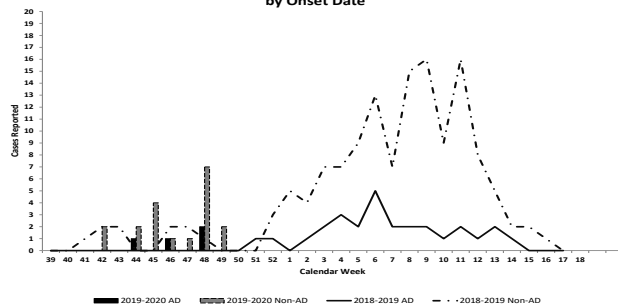


**AD:** In week 49, there were a total of 82 positive respiratory specimens in Active Duty Service Members. The majority of positive specimens were in 18-29 year olds (45%), followed by 30-39 year olds (33%), 40-49 year olds (17%).

**Non-AD:** A total of 317 positive respiratory specimens were submitted from non-AD beneficiaries, of which 76% were from those under 18 years of age.

## INFLUENZA-ASSOCIATED HOSPITALIZATIONS

Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Date



Two influenza-associated hospitalizations with onset dates in week 49 were reported to DRSi. One hospitalization was due to influenza type A while the other was due to influenza type B. So far this season, 23 cases have been reported to DRSi. Of these, 16 (69.5%) cases tested positive for influenza B. Of the 23 hospitalized cases, 6 (26%) were previously vaccinated prior to their hospitalization; the remaining cases 17 (74%) were not previously vaccinated prior to hospitalization.

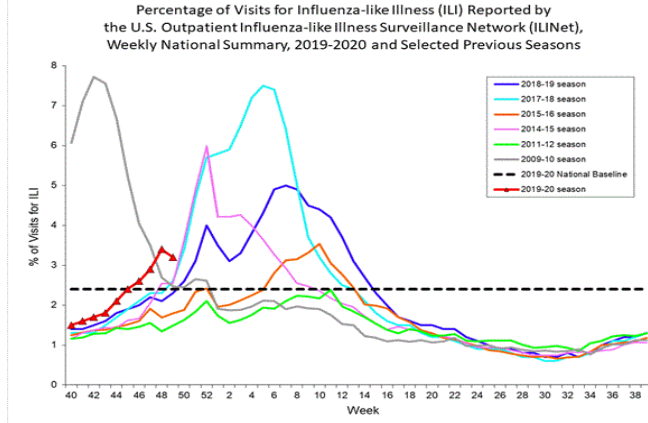
\*DRSi does not capture cases older than 65 years old for influenza-associated hospitalizations.

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

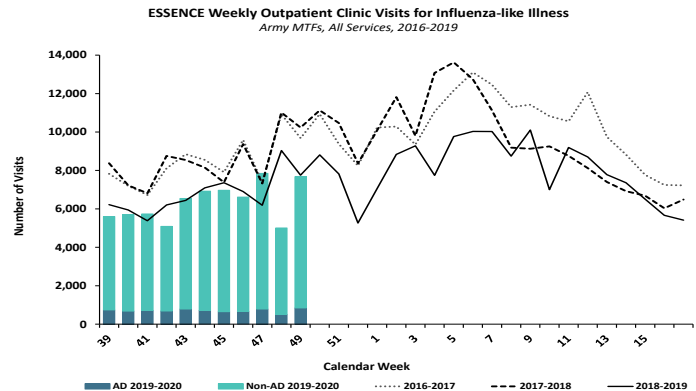
**Key:** ILI-Influenza-Like Illness; DRSi- Disease Reporting System Internet; ADV-Adenovirus; RSV-Respiratory Syncytial Virus; SM-Service Member; MEDPROS- Medical Protection System; ASIMS- Aeromedical Services Information Management System; MRRS- Medical Readiness Reporting System

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

## ILI ACTIVITY - UNITED STATES



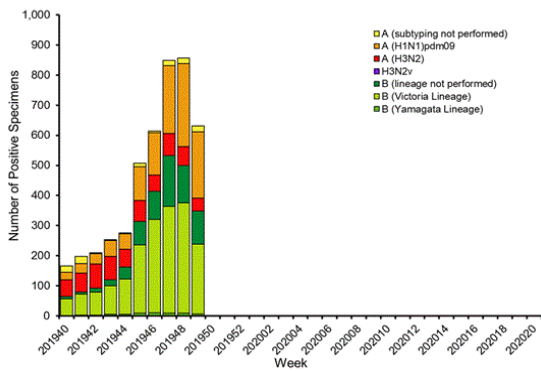
## ILI ACTIVITY - ARMY



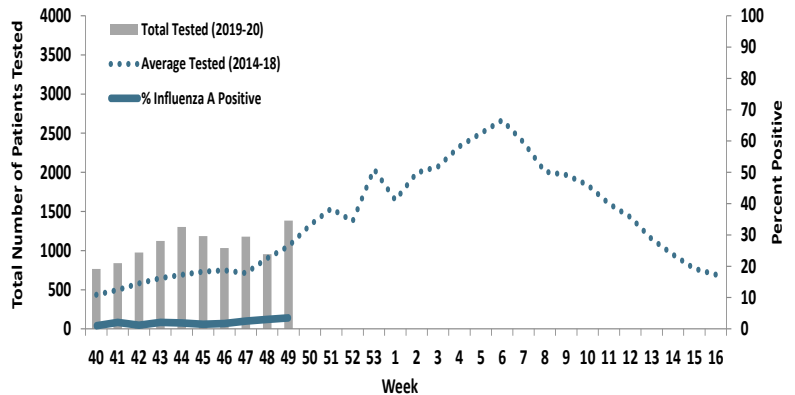
Nationwide in week 49, the incidence of ILI visits decreased by 2% from week 48. The percentage of ILI visits reported each week so far this season has been consistently higher nationwide than in previous recent seasons. At Army medical treatment facilities, incident ILI activity increased from week 48 to week 49 by 53%. ILI activity was 1.1% lower in week 49 this season compared to the same week last 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, 1,508 specimens were submitted to CDC, of which 42% were positive. Influenza A accounted for 45% of the total positive specimens submitted to the CDC in week 49. In the Army population, 6.3% of 1955 specimens were positive for influenza A, an increase of 0.6% from the previous week.

|   |               | Week 46     | Week 47     | Week 48     | Week 49      | Season Total |
|---|---------------|-------------|-------------|-------------|--------------|--------------|
| Test Types Among Positive Influenza A Specimens | RAT           | 16          | 28          | 24          | 43           | 186          |
|   | Culture       | 4           | 1           | 4           | 5            | 21           |
|   | PCR           | 23          | 57          | 43          | 75           | 245          |
| Army MTF Laboratory Results, 2019-20            | Influenza A   | 43          | 86          | 71          | 123          | 452          |
|   | Influenza B   | 106         | 153         | 145         | 160          | 915          |
|   | Adenovirus    | 10          | 11          | 6           | 10           | 93           |
|   | Enterovirus   | 0           | 0           | 0           | 0            | 6            |
|   | Parainfluenza | 17          | 15          | 5           | 8            | 134          |
|   | RSV           | 57          | 66          | 69          | 98           | 496          |
|   | Negative      | 2749        | 3268        | 2460        | 3766         | 26295        |
| <b>Total</b>                                    | <b>2982</b>   | <b>3599</b> | <b>2756</b> | <b>4165</b> | <b>28391</b> |              |

Of the 4165 respiratory labs tested in week 49, 399 (9.6%) were positive for any type of respiratory illness. The most common type of positive lab in week 49 was influenza B, which accounted for 40% (n=160) of positive results. Influenza A was the second most common positive respiratory illness (n=123, 31%), followed by RSV (24.5%), adenovirus (2.5%), and parainfluenza (2%).

Respiratory PCR tests are becoming increasingly more common, representing 61% of the influenza A tests that were ordered, followed by rapid antigen tests (35%), then cultures (4%).

**Locations providing week 49 laboratory data as of 7 December 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 Stewart, Ft. Wainwright, Korea, 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

| 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                       | 216         | 2.8        | 2.9                 | 132           | 19.7       | 0                   | 63         | 14.3       | 7                   |
|                             | Ft. Benning                       | 160         | 3.1        | 4.5                 | 160           | 9.4        | 0                   |            |            |                     |
|                             | Ft. Bragg                         | 90          | 1.1        | 2.9                 |               |            | 100                 |            |            |                     |
|                             | Ft. Campbell                      | 133         | 2.3        | 1.3                 | 133           | 4.5        | 0                   |            |            | 100                 |
|                             | Ft. Drum                          | 9           | 0          | 0                   |               |            |                     |            |            | 100                 |
|                             | Ft. Eustis                        | 27          | 0          | 10                  | 3             | 100        | 100                 |            |            |                     |
|                             | Ft. Gordon                        | 115         | 1.7        | 1.6                 | 93            | 15.1       | 0                   |            |            | 100                 |
|                             | Ft. Jackson                       | 105         | 4.8        | 0                   | 105           | 16.2       | 0                   |            |            |                     |
|                             | Ft. Knox                          | 6           | 16.7       | 11.1                | 6             | 16.7       | 0                   |            |            |                     |
|                             | Ft. Lee                           | 23          | 4.3        | 0                   | 1             | 100        |                     |            |            |                     |
|                             | Ft. Meade                         | 6           | 16.7       | 0                   |               |            |                     |            |            |                     |
|                             | Ft. Rucker                        | 28          | 3.6        | 0                   | 36            | 11.1       | 0                   |            |            |                     |
|                             | Ft. Stewart                       | 60          | 3.3        | 4.8                 | 64            | 12.5       | 0                   |            |            | 100                 |
|                             | Redstone Arsenal                  | 17          | 0          | 0                   | 18            | 5.6        | 0                   |            |            |                     |
| West Point Military Academy | 12                                | 8.3         | 18.2       | 12                  | 0             | 0          |                     |            | 100        |                     |
| PHCC                        | Ft. Bliss                         | 133         | 1.5        | 1.8                 | 129           | 5.4        | 1.5                 | 14         | 7.1        | 6.5                 |
|                             | Ft. Carson                        | 98          | 3.1        | 5.5                 |               |            |                     |            |            |                     |
|                             | Ft. Hood                          | 184         | 0.5        | 0.7                 | 184           | 12         | 0                   | 1          | 0          | 6.7                 |
|                             | Ft. Huachuca                      | 8           | 0          | 0                   | 9             | 22.2       | 0                   |            |            |                     |
|                             | Ft. Irwin                         | 31          | 0          | 11.1                | 31            | 25.8       | 0                   |            |            |                     |
|                             | Ft. Leavenworth                   | 53          | 13.2       | 0                   | 53            | 9.4        | 0                   |            |            |                     |
|                             | Ft. Leonard Wood                  | 31          | 0          | 6.1                 | 31            | 0          | 0                   |            |            |                     |
|                             | Ft. Polk                          | 47          | 0          | 0                   | 2             | 100        | 0                   |            |            |                     |
|                             | Ft. Riley                         | 60          | 1.7        | 9.5                 | 60            | 6.7        | 0                   |            |            |                     |
|                             | Ft. Sam Houston                   | 381         | 15.7       | 0.9                 | 317           | 0          | 3.9                 |            |            | 100                 |
| Ft. Sill                    | 40                                | 2.5         | 13.3       | 3                   | 66.7          | 100        |                     |            |            |                     |
| PHCE                        | Landstuhl Regional Medical Center | 35          | 2.9        | 2                   | 34            | 0          | 0                   | 34         | 0          | 2.8                 |
| PHCP                        | Ft. Wainwright                    | 51          | 3.9        | 0                   | 50            | 22         | 0                   |            |            |                     |
|                             | Korea                             | 35          | 20         | 22.4                | 28            | 0          | 0                   | 28         | 0          | 7.9                 |
|                             | Tripler Army Medical Center       | 70          | 14.3       | 0                   | 44            | 2.3        | 0                   | 16         | 0          | 6.7                 |
| Region                      | Installation                      | Enterovirus |            |                     | Parainfluenza |            |                     | RSV        |            |                     |
|                             |                                   | No. Tested  | % Positive | Baseline % Pos.     | No. Tested    | % Positive | Baseline % Pos.     | No. Tested | % Positive | Baseline % Pos.     |
| PHCA                        | Ft. Belvoir                       |             |            |                     | 68            | 5.9        | 1.7                 | 136        | 16.9       | 22.4                |
|                             | Ft. Drum                          |             |            |                     |               |            | 100                 | 2          | 0          | 0                   |
|                             | Ft. Gordon                        |             |            |                     | 2             | 100        | 100                 | 4          | 100        | 100                 |
|                             | Ft. Stewart                       |             |            |                     |               |            | 100                 | 21         | 9.5        | 31.6                |
| PHCC                        | Ft. Bliss                         |             |            |                     |               |            |                     | 129        | 20.9       | 18.6                |
|                             | Ft. Carson                        |             |            |                     |               |            |                     | 9          | 0          | 0                   |
|                             | Ft. Hood                          |             |            |                     |               |            | 11.8                | 46         | 41.3       | 36.2                |
|                             | Ft. Leavenworth                   |             |            |                     |               |            |                     | 15         | 13.3       | 0                   |
|                             | Ft. Polk                          |             |            |                     |               |            |                     | 18         | 16.7       | 28.6                |
|                             | Ft. Riley                         |             |            |                     |               |            |                     | 30         | 36.7       | 8.3                 |
| Ft. Sill                    |                                   |             |            |                     |               |            | 2                   | 100        | 100        |                     |
| PHCE                        | Landstuhl Regional Medical Center |             |            |                     | 37            | 10.8       | 0                   | 41         | 12.2       | 10.3                |
| PHCP                        | Ft. Wainwright                    |             |            |                     |               |            |                     | 51         | 3.9        | 68.5                |
|                             | Korea                             |             | 0          |                     | 28            | 0          | 7.9                 | 28         | 3.6        | 15.8                |
|                             | Tripler Army Medical Center       | 16          | 0          | 0                   | 16            | 0          | 3.4                 |            |            | 100                 |

No.: Number of specimens tested during MMWR week 49 2019.

% Pos.: Percentage of positive specimens reported during MMWR week 49, 2019.

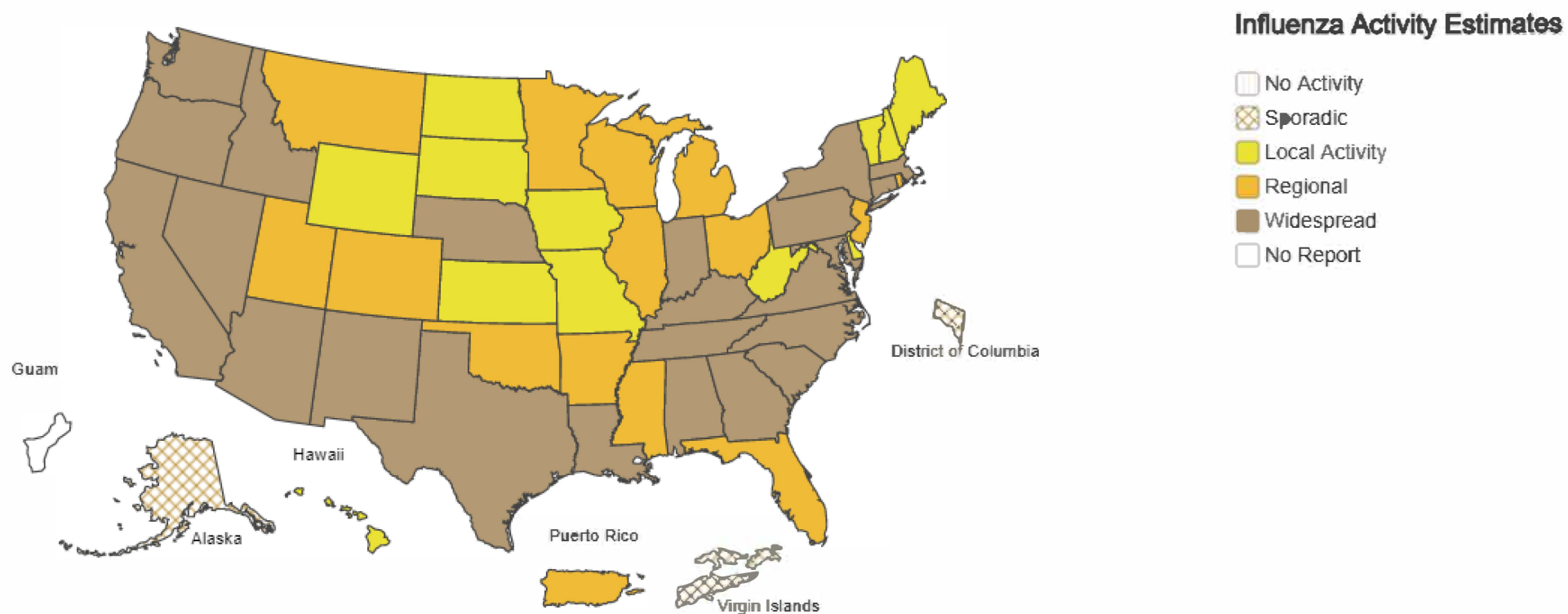
Baseline % Pos.: Percentage of positive specimens reported in MMWR week 49 during influenza seasons from September 2012 - May 2019.



## A Weekly Influenza Surveillance Report Prepared by the Influenza Division

### Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists\*

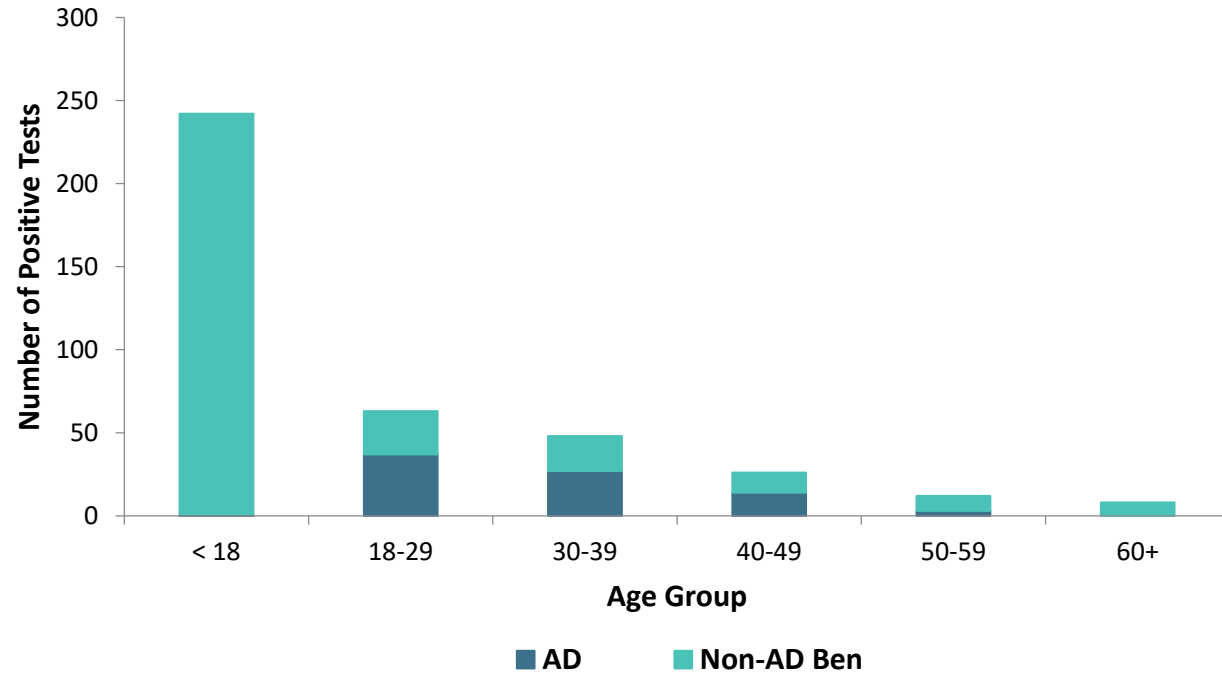
Week Ending Dec 07, 2019 - Week 49



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

[Click the CDC banner to view the CDC's weekly influenza report](#)

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

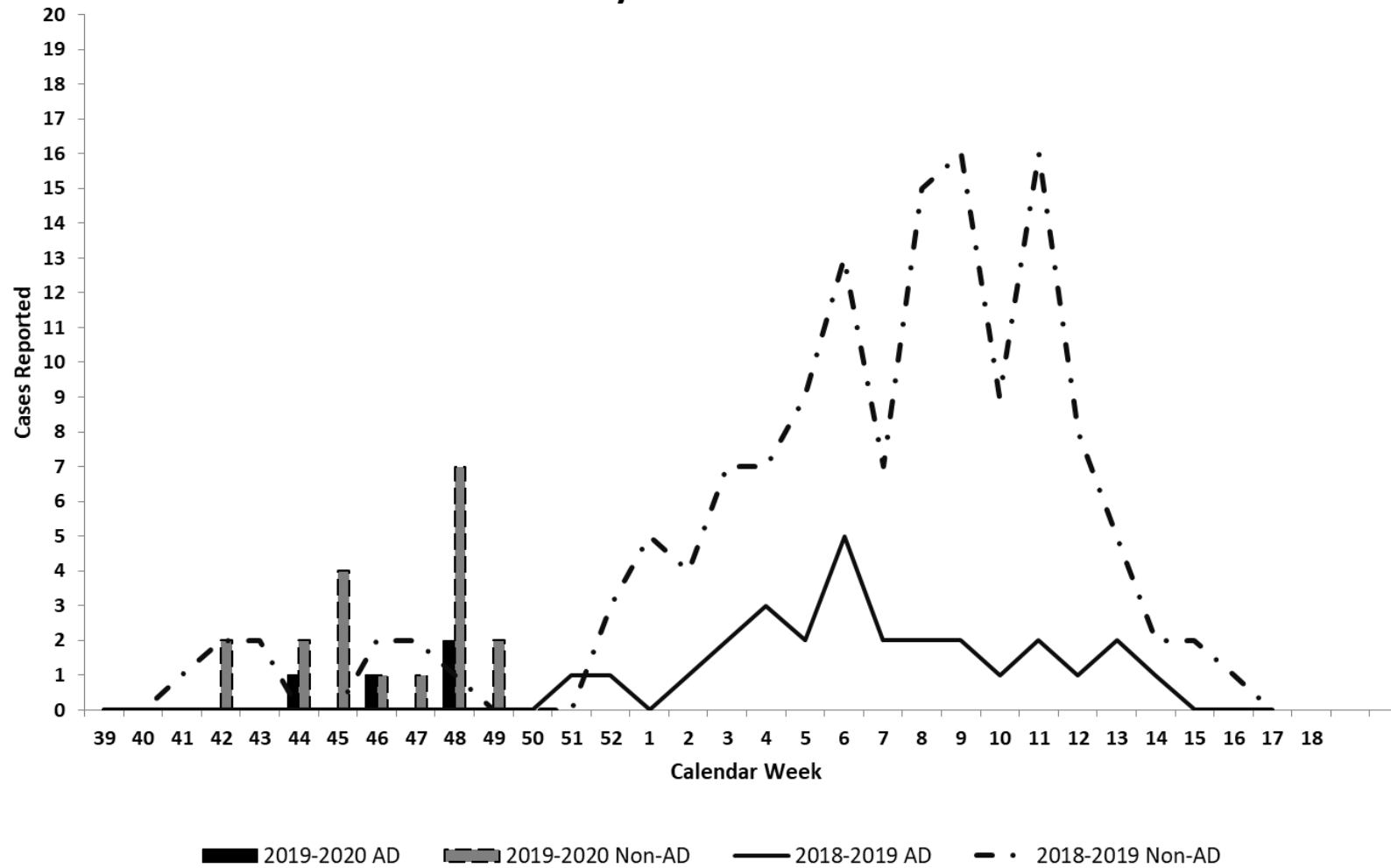


| <b>Week 49</b>   |           |                   |                     |
|------------------|-----------|-------------------|---------------------|
| <b>Age Group</b> | <b>AD</b> | <b>Non-AD Ben</b> | <b>Season Total</b> |
| < 18             | 1         | 241               | <b>1501</b>         |
| 18-29            | 37        | 26                | <b>287</b>          |
| 30-39            | 27        | 21                | <b>147</b>          |
| 40-49            | 14        | 12                | <b>56</b>           |
| 50-59            | 3         | 9                 | <b>54</b>           |
| 60+              | 0         | 8                 | <b>51</b>           |
| <b>Total</b>     | <b>82</b> | <b>317</b>        | <b>2096</b>         |





## Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Date

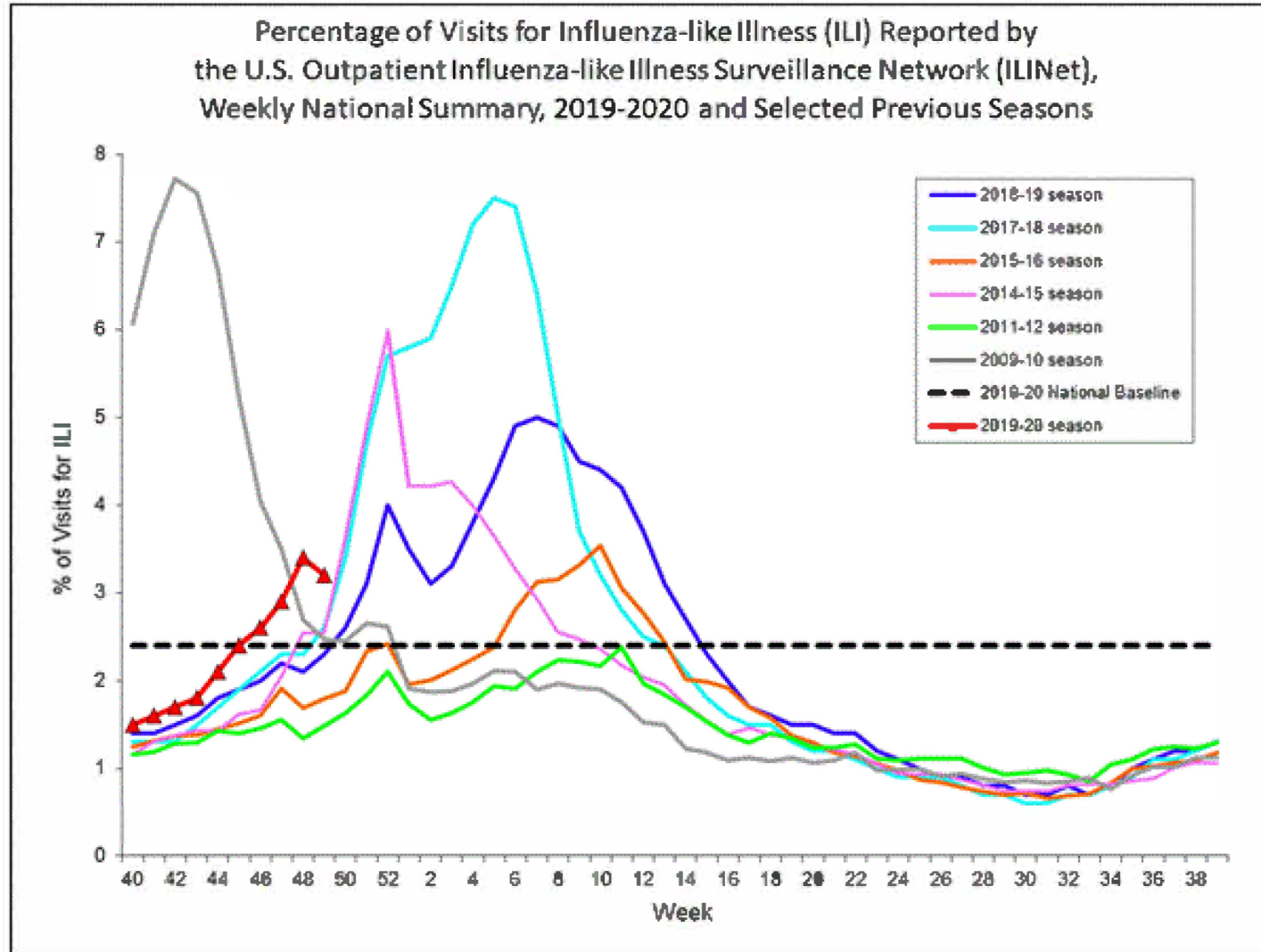


**Note:** Reportable influenza cases are defined as only cases that have been hospitalized and are under the age of 65. See [Armed Forces Reportable Medical Events Guidelines and Case Definitions](#) for more information.  
Data as of 5 December 2019.

# FLUVIEW



A Weekly Influenza Surveillance Report Prepared by the Influenza Division

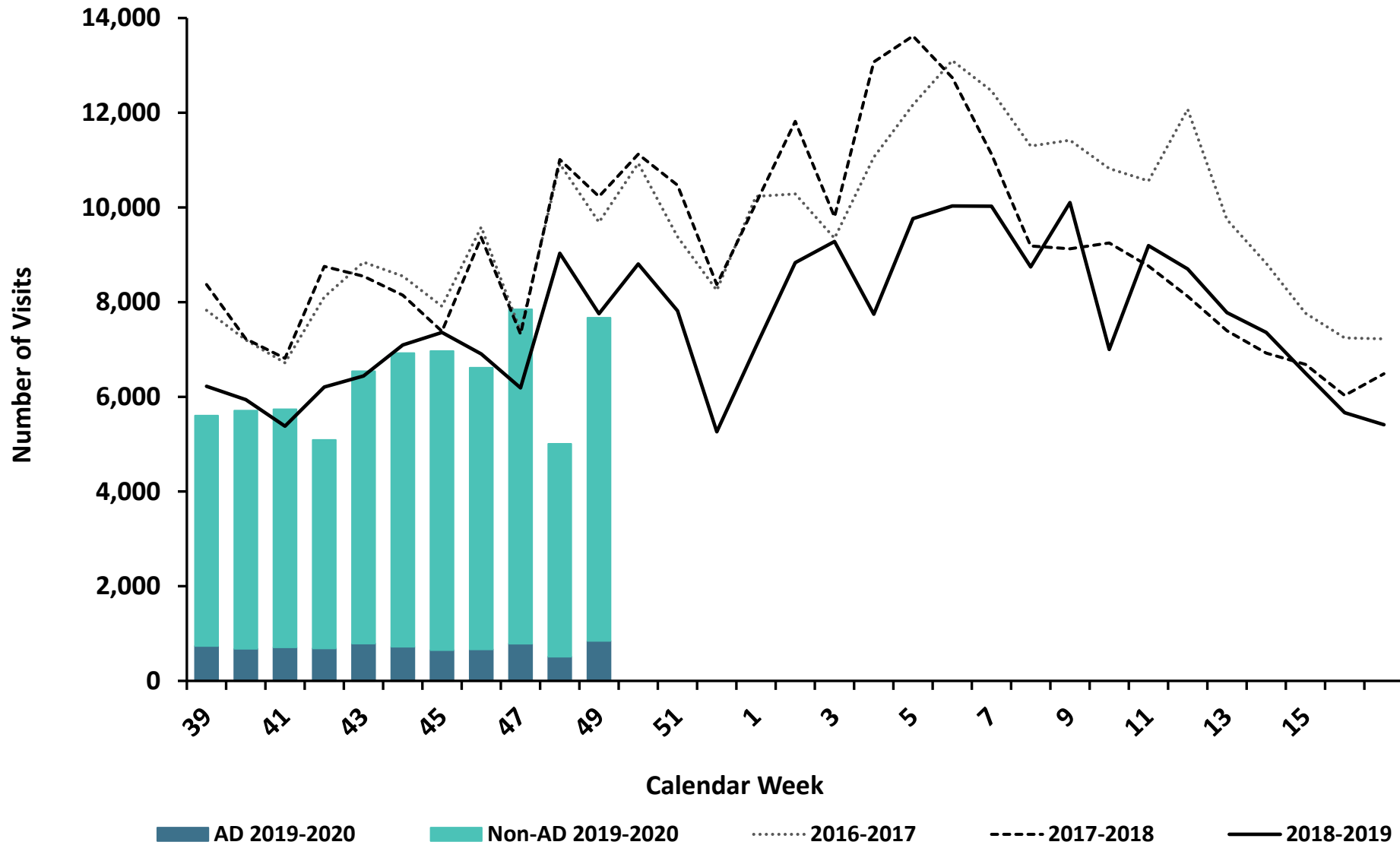


[Click the CDC banner to view the CDC's weekly influenza report](#)



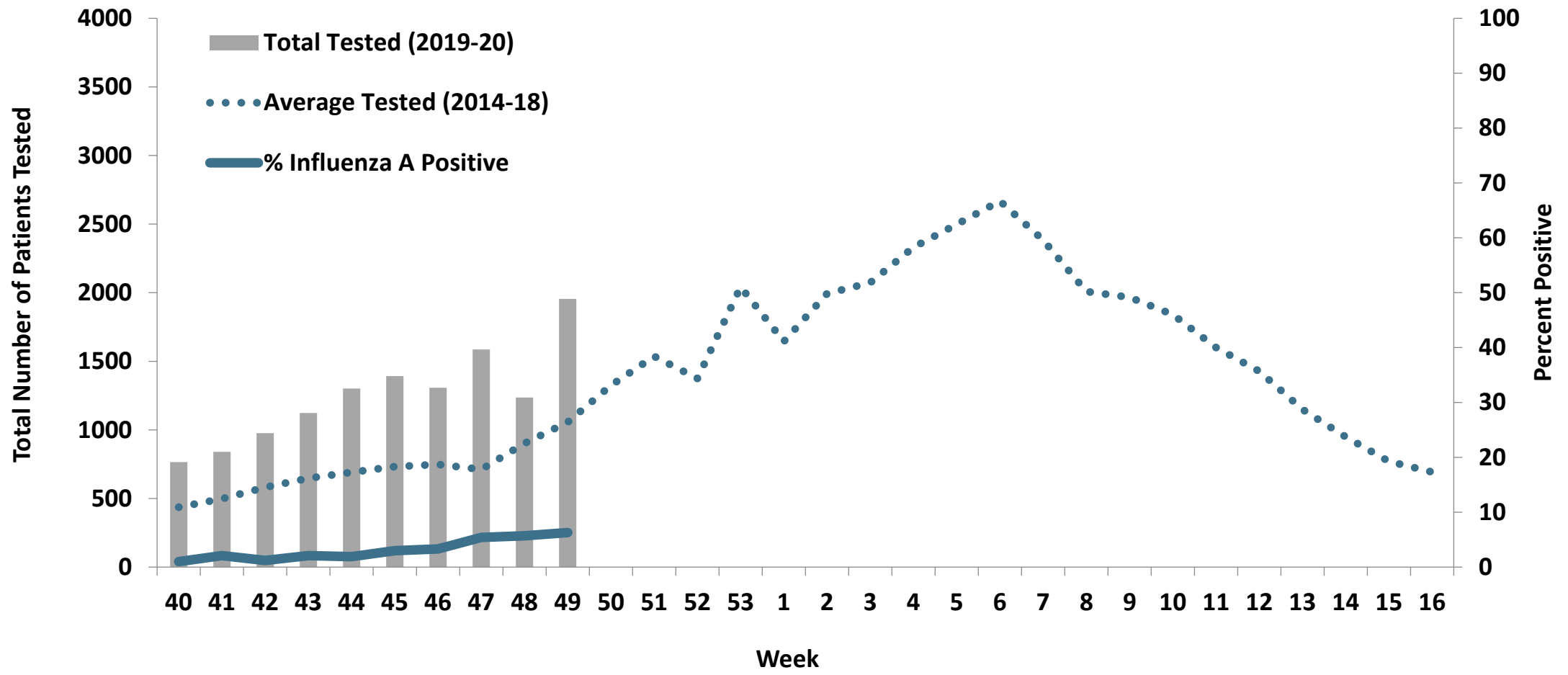
# ESSENCE Weekly Outpatient Clinic Visits for Influenza-like Illness

Army MTFs, All Services, 2016-2019





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



## Laboratory Respiratory Specimen Testing – Weeks 46 – 49

|  |                      | Week 46     | Week 47     | Week 48     | Week 49     | Season Total |
|--|----------------------|-------------|-------------|-------------|-------------|--------------|
| <b>Test Types Among Positive Influenza A Specimens</b> | <b>RAT</b>           | 16          | 28          | 24          | 43          | <b>186</b>   |
|  | <b>Culture</b>       | 4           | 1           | 4           | 5           | <b>21</b>    |
|  | <b>PCR</b>           | 23          | 57          | 43          | 75          | <b>245</b>   |
| <b>Army MTF Laboratory Results, 2019-20</b>            | <b>Influenza A</b>   | 43          | 86          | 71          | 123         | <b>452</b>   |
|  | <b>Influenza B</b>   | 106         | 153         | 145         | 160         | <b>915</b>   |
|  | <b>Adenovirus</b>    | 10          | 11          | 6           | 10          | <b>93</b>    |
|  | <b>Enterovirus</b>   | 0           | 0           | 0           | 0           | <b>6</b>     |
|  | <b>Parainfluenza</b> | 17          | 15          | 5           | 8           | <b>134</b>   |
|  | <b>RSV</b>           | 57          | 66          | 69          | 98          | <b>496</b>   |
|  | <b>Negative</b>      | 2749        | 3268        | 2460        | 3766        | <b>26295</b> |
|  | <b>Total</b>         | <b>2982</b> | <b>3599</b> | <b>2756</b> | <b>4165</b> | <b>28391</b> |

