

U.S. Army Public Health Center

Army Influenza Activity Report

Week ending 25 January 2020 (week 4)

Influenza Vaccination Coverage*

As of 30 January 2020

| | |
|-----|------------------|
| N/A | DoD |
| 94% | Army Active Duty |
| 87% | Army Guard |
| 79% | Army Reserve |

*Data Source: MEDPROS, ASIMS, MRRS

SUMMARY

During week 4, 6,314 specimens were submitted for testing, which represents a 9% increase from week 3. Influenza A accounted for the majority (55%) of positive specimens submitted for testing. PHC-P continues to have the highest percent positive value for influenza A compared to other regions. PHC-C accounted for the majority of positive influenza A specimens (40%); 74% of positive influenza A specimens were among non-AD beneficiaries. Beneficiaries younger than 18 years old accounted for the majority (55%) of total positive respiratory specimens, which was followed by those 18 to 29 years of age (16%). Sixteen influenza-associated hospitalizations were reported in week 4.

GEOGRAPHIC SPREAD

Click to enlarge image

A Weekly Influenza Surveillance Report Prepared by the Influenza Division
Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*
Week Ending Jan 25, 2020 - Week 4

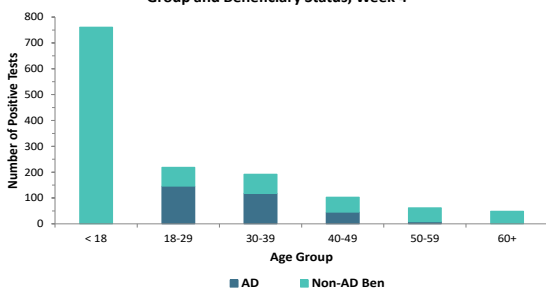


*This map indicates geographic spread and does not measure the severity of influenza activity.

In week 4, widespread activity was reported in Puerto Rico and 49 states. Regional activity was reported in Hawaii. Local activity was reported in the District of Columbia. Sporadic activity was reported in the U.S. Virgin Island, and Guam did not report.

DEMOGRAPHICS

Positive Respiratory Specimen Results from Army MTFs by Age Group and Beneficiary Status, Week 4

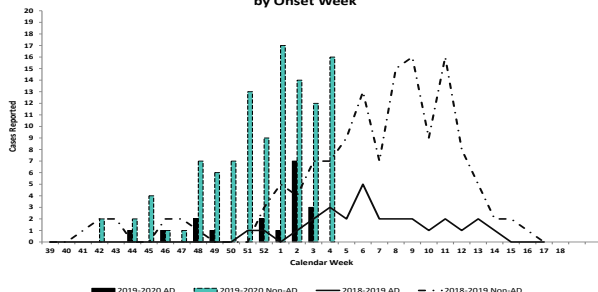


AD: In week 4, 3,17 positive respiratory specimens from Active Duty (AD) Service Members (SM) were submitted. The majority of positive specimens were among those 18 to 29 years of age (n=146, 46%) and was followed by those 30 to 39 years of age (n=118, 37%).

Non-AD: The majority of positive respiratory specimens among non-Active Duty beneficiaries were collected from individuals younger than 18 years of age (n=761, 71%).

INFLUENZA-ASSOCIATED HOSPITALIZATIONS

Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Week



So far this season, a total of 129 hospitalizations have been reported to the DRSi; this is nearly three times higher than the 44 hospitalizations reported last season during the same period. As of 29 January, 16 influenza-associated hospitalizations with onset dates in week 4 were reported to the DRSi; 13 hospitalizations were due to influenza A and three were due to influenza B. During week 4 last season, 10 cases were reported.

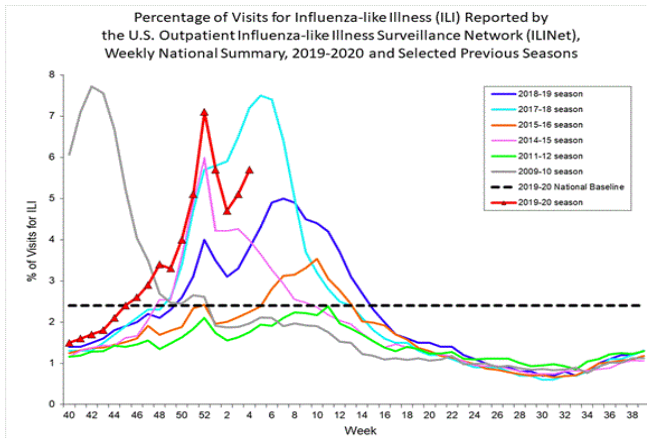
*DRSi does not capture cases older than 65 years old for influenza-associated hospitalizations.

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

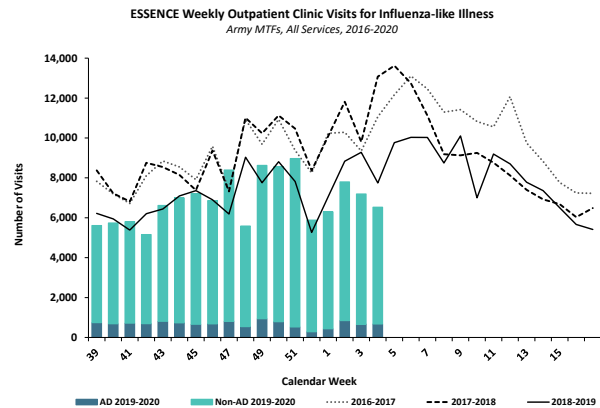
Questions?
[Email APHC DEP](#)
410-436-7605

ILI ACTIVITY - UNITED STATES



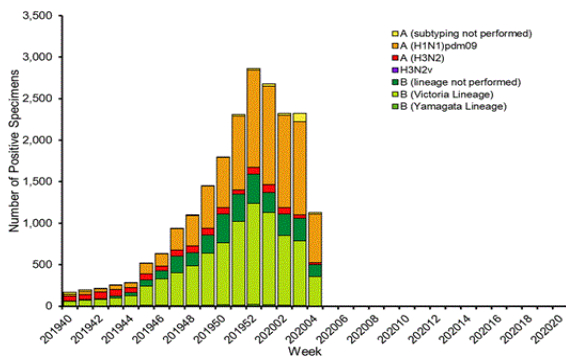
Nationwide in week 4, incident ILI activity was 5.7%. This is above the national baseline of 2.4%. Regionally, the percentage of outpatient visits for ILI ranged from 4.1% to 7.7%. All regions reported a percentage of outpatient visits for ILI above their region-specific baselines. At Army medical treatment facilities, incident ILI activity decreased overall from week 3 to week 4 by 9.2%, while activity for AD SMs increased by 1%.

ILI ACTIVITY - ARMY



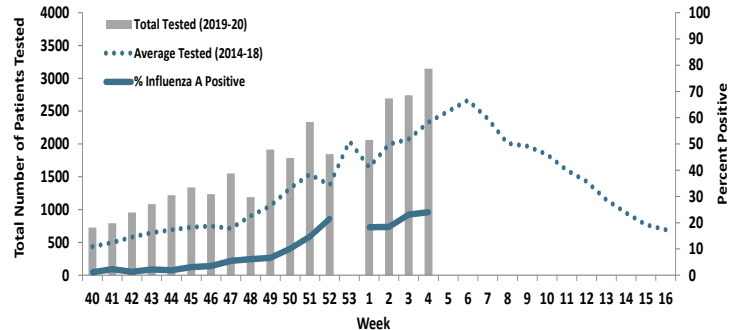
LABORATORY RESPIRATORY SPECIMEN TESTING

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



Nationwide, 1,801 specimens were submitted to CDC in week 4, of which 63% (n=1,129) were positive. Influenza A accounted for 55.7% (n=629) of the total positive specimens submitted to the CDC in week 4, while influenza B accounted for 44.3% (n=500). In the Army population, 24% of 3,148 specimens tested for influenza A were positive.

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



| | | Week 1 | Week 2 | Week 3 | Week 4 | Season Total |
|--------------------|---------|--------|--------|--------|--------|--------------|
| Test Types Among | RAT | 178 | 269 | 354 | 427 | 1881 |
| Positive Influenza | Culture | 4 | 2 | 2 | 2 | 41 |
| A Specimens | PCR | 196 | 225 | 278 | 327 | 1719 |

| | | | | | | |
|--------------------------------------|---------------|-------------|-------------|-------------|-------------|--------------|
| Army MTF Laboratory Results, 2019-20 | Influenza A | 378 | 496 | 634 | 756 | 3641 |
| | Influenza B | 329 | 424 | 529 | 514 | 3786 |
| | Adenovirus | 6 | 10 | 18 | 9 | 163 |
| | Enterovirus | 0 | 0 | 0 | 0 | 7 |
| | Parainfluenza | 6 | 9 | 3 | 7 | 193 |
| | RSV | 96 | 126 | 110 | 100 | 1284 |
| | Negative | 3637 | 4720 | 4465 | 4928 | 53206 |
| | Total | 4452 | 5785 | 5759 | 6314 | 62280 |

Of the 6,314 respiratory specimens tested in week 4, 1,386 (22.0%) were positive for any type of respiratory illness. Influenza A accounted for the majority of positive results in week 4, with 54.5% (n=756) of all positive lab results. This was followed by influenza B, which accounted for 37.1% (n=514) of positive lab results, followed by RSV (7.2%), adenovirus (0.6%), and parainfluenza (0.6%).

Rapid antigen tests represented 56.5% of the positive influenza A tests, followed by PCR tests (43.3%), then cultures (<1%).

Locations providing week 4 laboratory data as of 29 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 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.

*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 | 345 | 19.7 | 18.4 | 203 | 26.1 | 0.8 | 83 | 7.2 | 4.9 |
| | Ft. Benning | 247 | 13.4 | 22.3 | 247 | 8.5 | 0 | | | |
| | Ft. Bragg | 202 | 20.3 | 26 | | | 100 | | | |
| | Ft. Campbell | 203 | 13.8 | 19.2 | 203 | 12.8 | 0 | | | 100 |
| | Ft. Drum | 14 | 7.1 | 14.3 | 8 | 100 | 100 | | | |
| | Ft. Eustis | | | 34.8 | | | 100 | | | |
| | Ft. Gordon | 87 | 23 | 18.4 | 85 | 4.7 | 0 | | | 100 |
| | Ft. Jackson | 111 | 13.5 | 16.4 | 112 | 12.5 | 0 | | | |
| | Ft. Knox | 2 | 0 | 20.8 | 2 | 0 | 4.2 | | | |
| | Ft. Lee | 48 | 14.6 | 4.8 | 6 | 100 | 100 | | | |
| | Ft. Meade | 23 | 39.1 | 100 | | | | | | |
| | Ft. Rucker | 29 | 20.7 | 33.3 | 29 | 3.4 | 0 | | | |
| | Ft. Sam Houston | 401 | 24.2 | 23.3 | 405 | 13.6 | 1.7 | | | 100 |
| | Ft. Stewart | 130 | 23.8 | 22.9 | 130 | 6.9 | 1.4 | | | 100 |
| | Redstone Arsenal | 23 | 21.7 | 23.1 | 23 | 21.7 | 0 | | | |
| U.S. Military Academy | 62 | 35.5 | 25 | 1 | 0 | 0 | | | 100 | |
| PHCC | Ft. Bliss | 557 | 21.7 | 13.5 | 531 | 33.9 | 0 | | | 10.6 |
| | Ft. Carson | 140 | 11.4 | 15.6 | | | 100 | | | |
| | Ft. Hood | 213 | 23.9 | 14.8 | 207 | 2.4 | 0.8 | 22 | 0 | 10 |
| | Ft. Huachuca | 49 | 16.3 | 7.1 | 48 | 16.7 | 5 | | | |
| | Ft. Irwin | 74 | 43.2 | 33.8 | 72 | 4.2 | 0 | | | |
| | Ft. Leavenworth | 11 | 0 | 31.7 | 10 | 30 | 0 | | | |
| | Ft. Leonard Wood | 101 | 3 | 6.1 | 101 | 31.7 | 0 | | | 100 |
| | Ft. Polk | 50 | 2 | 8.7 | 12 | 100 | 0 | | | |
| | Ft. Riley | 128 | 5.5 | 13.6 | 128 | 13.3 | 0 | | | |
| Ft. Sill | 94 | 22.3 | 7.1 | 28 | 100 | 100 | | | | |
| PHCE | Landstuhl Regional Medical Center | 50 | 18 | 22.7 | 41 | 0 | 0 | 41 | 0 | 3 |
| PHCP | Ft. Wainwright | 75 | 10.7 | 40.4 | 74 | 16.2 | 0 | | | |
| | Korea | 97 | 37.1 | 27.7 | 56 | 0 | 0 | 56 | 5.4 | 5.9 |
| | Tripler Army Medical Center | 146 | 41.1 | 11.7 | 146 | 8.2 | 2 | 9 | 0 | 3.8 |
| Region | Installation | Enterovirus | | | Parainfluenza | | | RSV | | |
| | | No. Tested | % Positive | Baseline % Pos. | No. Tested | % Positive | Baseline % Pos. | No. Tested | % Positive | Baseline % Pos. |
| PHCA | Ft. Belvoir | | | | 86 | 4.7 | 3.1 | 198 | 11.6 | 24.6 |
| | Ft. Campbell | | | | | | 100 | | | 100 |
| | Ft. Drum | | | | | | | 1 | 100 | 50 |
| | Ft. Gordon | | | | | | 100 | | | 100 |
| | Ft. Sam Houston | | | 100 | | | | | | 100 |
| | Ft. Stewart | | | | | | | 8 | 12.5 | 5.6 |
| | West Point Military Academy | | | | | | 100 | | | 100 |
| PHCC | Ft. Bliss | | | | | | | 512 | 6.6 | 10.8 |
| | Ft. Carson | | | | | | | 28 | 46.4 | 37.2 |
| | Ft. Hood | | | | 22 | 0 | 0 | 64 | 10.9 | 15.1 |
| | Ft. Leavenworth | | | | | | | 1 | 0 | 11.1 |
| | Ft. Leonard Wood | | | | | | | | | |
| | Ft. Polk | | | | | | | 4 | 25 | 7.7 |
| | Ft. Riley | | | | | | | 46 | 6.5 | 17.2 |
| Ft. Sill | | | | | | | 5 | 20 | 20 | |
| PHCE | Landstuhl Regional Medical Center | | | | 43 | 4.7 | 3.9 | 48 | 10.4 | 20.8 |
| PHCP | Ft. Wainwright | | | | | | | 75 | 10.7 | 12.2 |
| | Korea | | | 0 | 56 | 1.8 | 0 | 56 | 5.4 | 9.1 |
| | Tripler Army Medical Center | 9 | 0 | 0 | 9 | 0 | 3.8 | | | 100 |

No.: Number of specimens tested during MMWR week 4 2020.

% Pos.: Percentage of positive specimens reported during MMWR week 4 2020.

Baseline % Pos.: Percentage of positive specimens reported in MMWR week 34 during influenza seasons from September 2012 - May 2019.

Missing values indicate that specimens were not tested for the disease during the week of interest.

A Weekly Influenza Surveillance Report Prepared by the Influenza Division

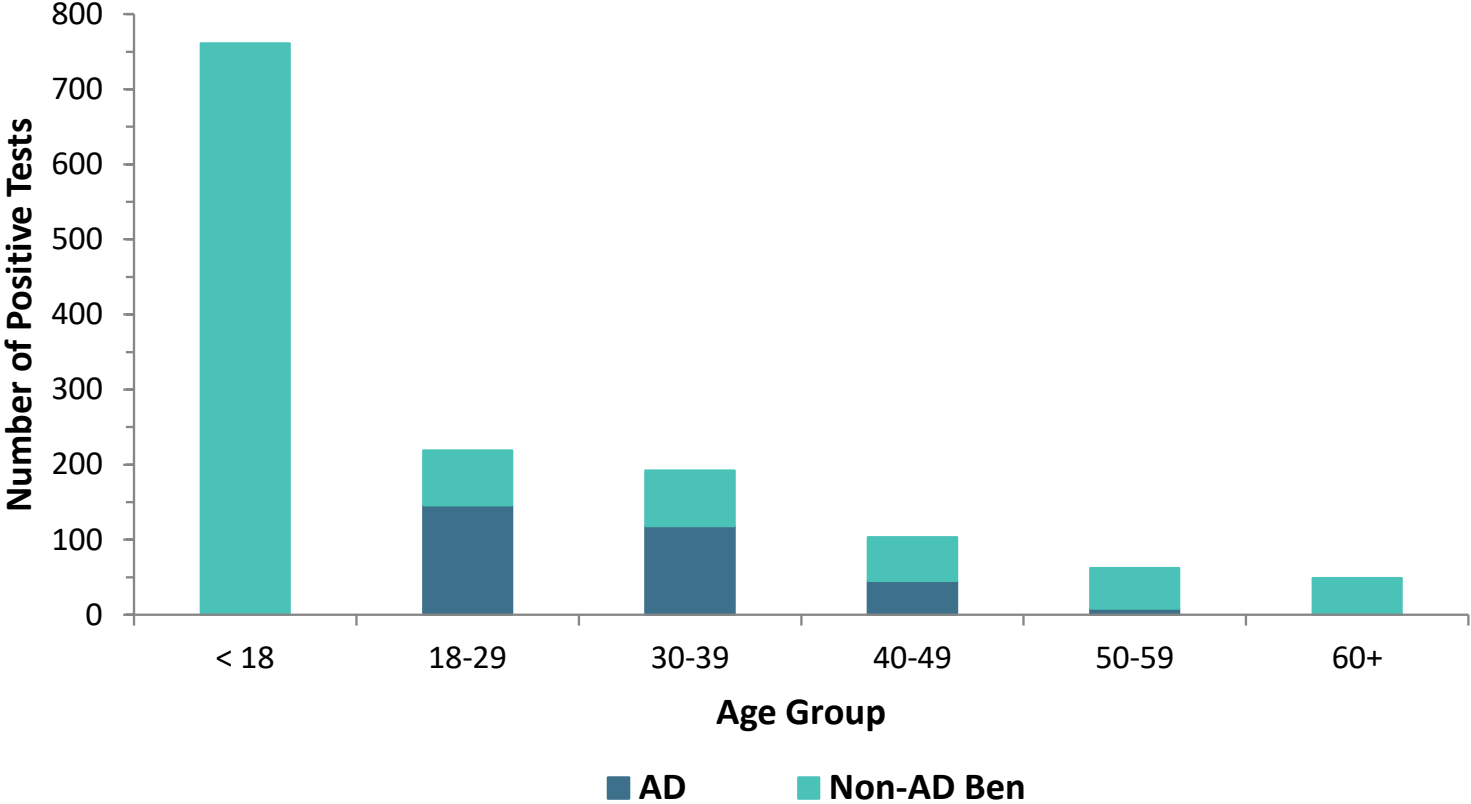
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Week Ending Jan 25, 2020 - Week 4



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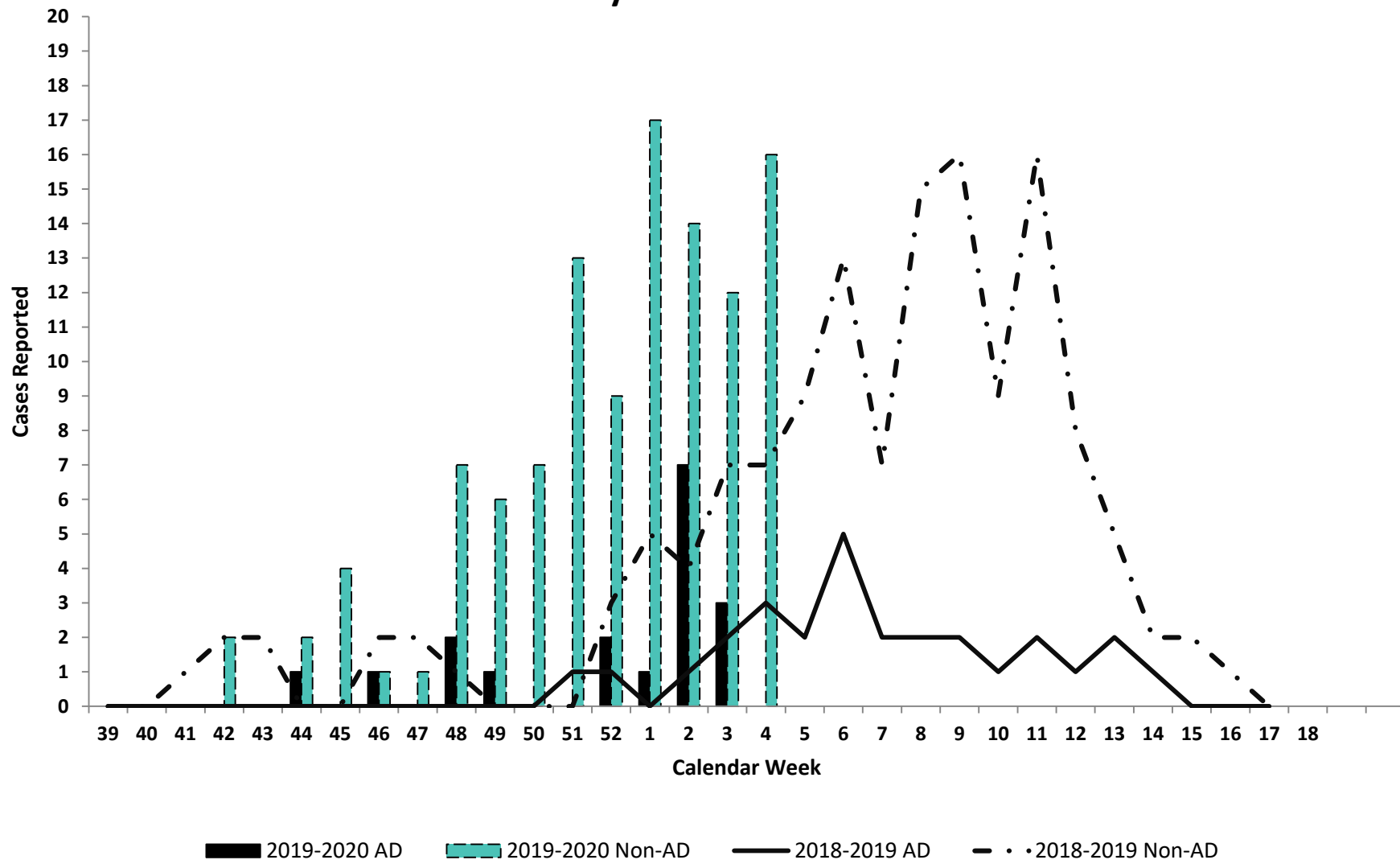
Positive Respiratory Specimen Results from Army MTFs by Age Group and Beneficiary Status, Week 4



| Week 4 | | | |
|------------------|------------|-------------------|---------------------|
| Age Group | AD | Non-AD Ben | Season Total |
| < 18 | 0 | 761 | 5162 |
| 18-29 | 146 | 73 | 1487 |
| 30-39 | 118 | 74 | 1034 |
| 40-49 | 45 | 58 | 541 |
| 50-59 | 8 | 54 | 418 |
| 60+ | 0 | 49 | 432 |
| Total | 317 | 1069 | 9074 |

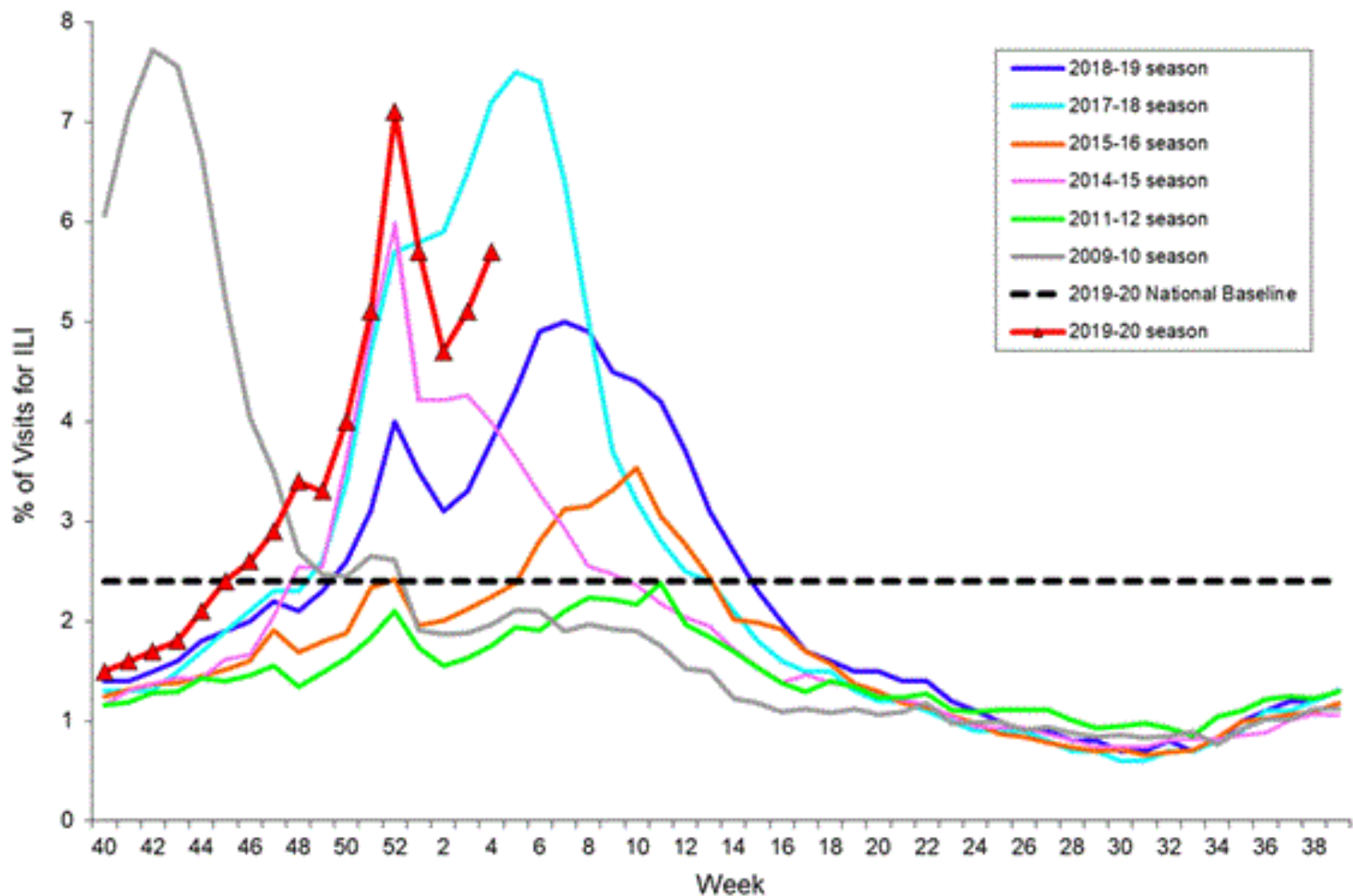


Army Influenza-Associated Hospitalizations Reported in DRSi by Onset Week



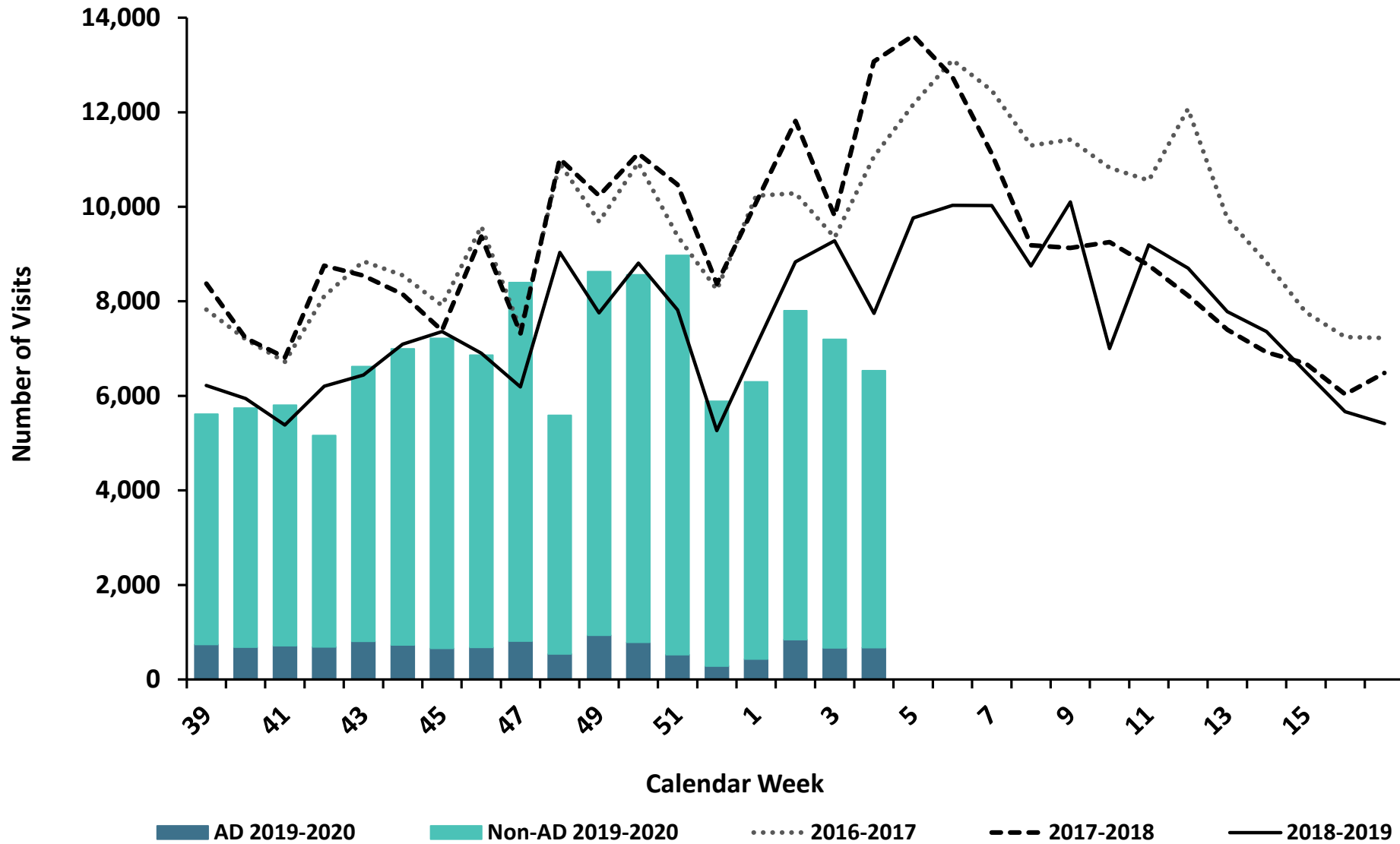
Note: Reportable influenza cases are defined as only cases that have been hospitalized and are under the age of 65.
Data as of 29 January 2020.

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

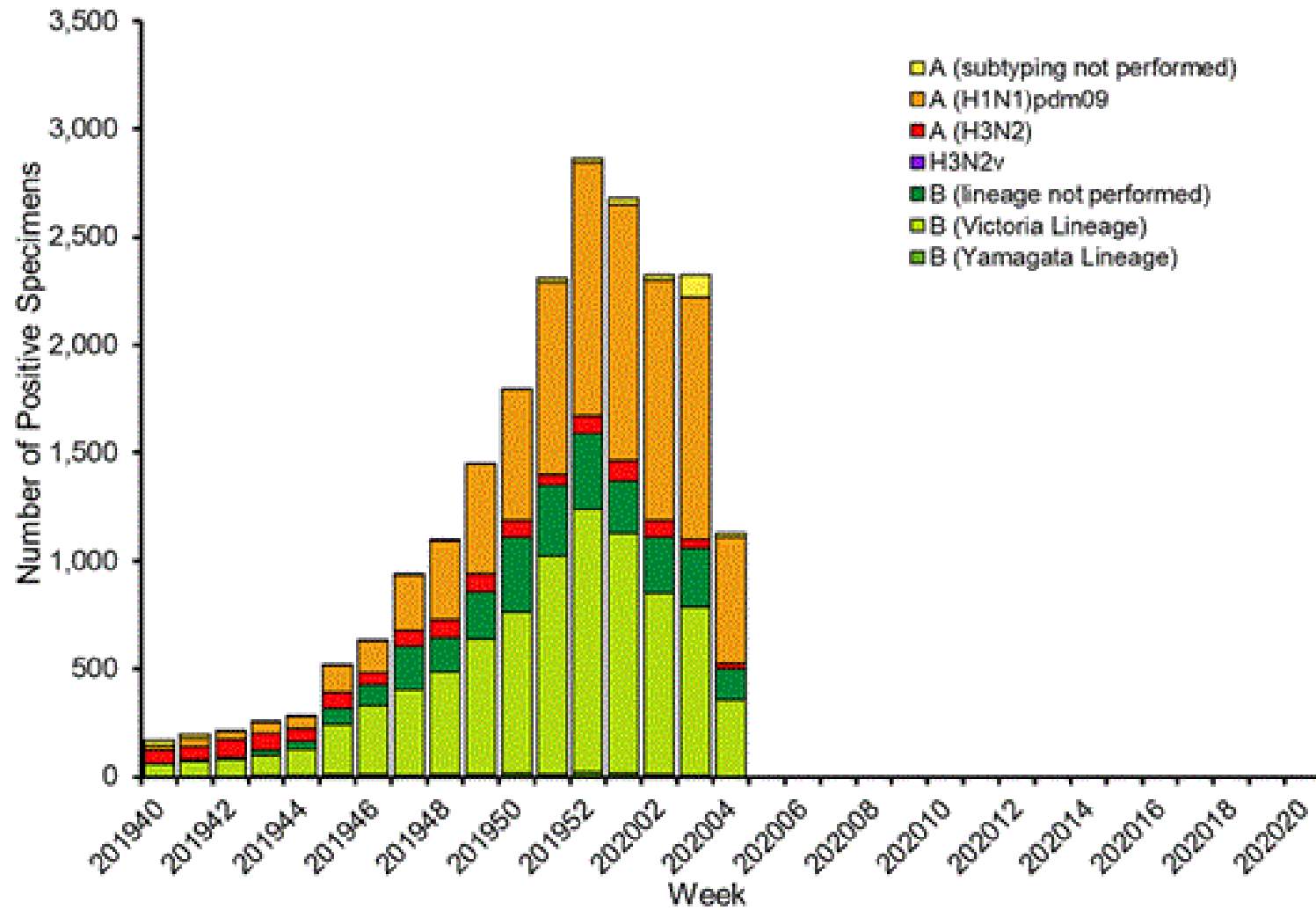


ESSENCE Weekly Outpatient Clinic Visits for Influenza-like Illness

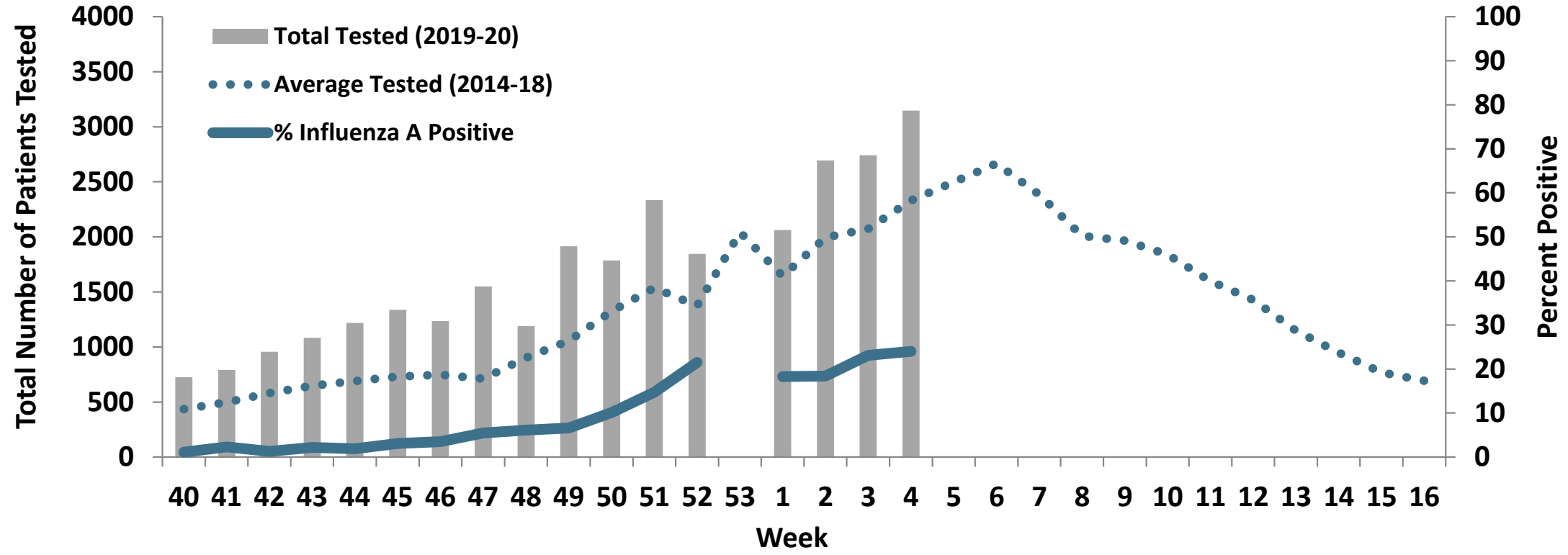
Army MTFs, All Services, 2016-2020



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



Laboratory Respiratory Specimen Testing: Weeks 1 – 4

| | | Week 1 | Week 2 | Week 3 | Week 4 | Season Total |
|--|----------------|--------|--------|--------|--------|--------------|
| Test Types Among Positive Influenza A Specimens | RAT | 178 | 269 | 354 | 427 | 1881 |
| | Culture | 4 | 2 | 2 | 2 | 41 |
| | PCR | 196 | 225 | 278 | 327 | 1719 |

| | | | | | | |
|---|----------------------|-------------|-------------|-------------|-------------|--------------|
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| | Negative | 3637 | 4720 | 4465 | 4928 | 53206 |
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