U.S. Army Medical Department

# ARMY PUBLIC HEALTH CENTER

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# U.S. Army Influenza Activity Report

***Week Ending 12 November 2016 (Week 45)***

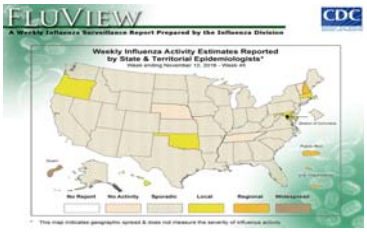
| 2016-2017 Seasonal Influenza Vaccination Coverage<br>*As of 17 November 2016* | |
|---|---|
| 73% | DoD |
| 80% | Army Active Duty |
| 65% | Army Guard |
| 59% | Army Reserve |

*Data Source: MEDPROS, ASIMS, MRRS*

**SYNOPSIS:** Influenza detections remain sporadic among Army laboratories, with only nine influenza A-positive specimens identified in week 45.

- **ILI Activity:** Army incident ILI outpatient visits in week 45 were 3% lower than the same week last year.
- **Influenza cases:** No hospitalized influenza cases were reported to APHC through DRSi in week 45; At this same time during the last influenza season, two influenza-associated hospitalization was reported.
- **Viral specimens:** During week 45, 77 of 688 (11%) laboratory specimens tested positive for respiratory pathogens. RHC-C reported most (44%) of the influenza A-positive specimens, followed by RHC-P (33%), and RHC-A (22%). RHC-E and CENTCOM did not report any positive specimens.

## Geographic Spread

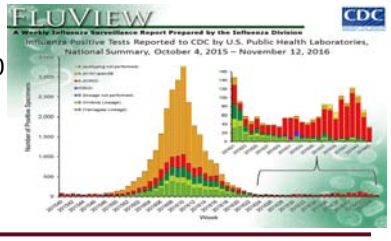



### United States

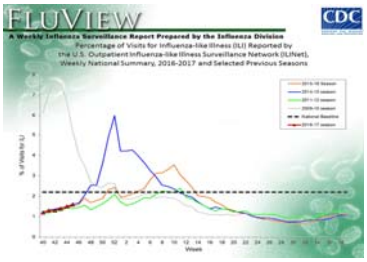
- In week 45, widespread activity was reported by Guam and regional influenza activity was reported by Puerto Rico and New Hampshire. Local activity was reported in HI, MD, MA, OK, and OR. Washington DC and 40 states reported sporadic activity. No activity was reported by four states.

### CDC Virologic Surveillance

- During week 45, 97.1% (34) of specimens collected form civilian labs tested positive for Influenza A. A(H3) accounted for 30 of the 34 samples, one was A (H1N1)pdm09 and three were not subtyped.

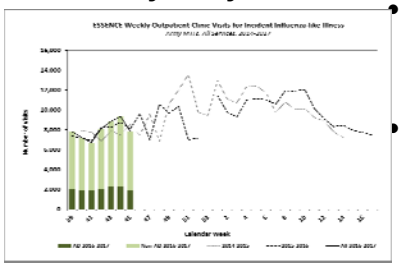



## ILI Activity United States




- Nationwide during week 45, 1.6% of outpatient visits reported in ILINet were due to ILI, which is below the national baseline of 2.2%.
- The percentage of ILI outpatient visits ranged from 0.6% to 2.5% across the regions reporting.

## ILI Activity Army



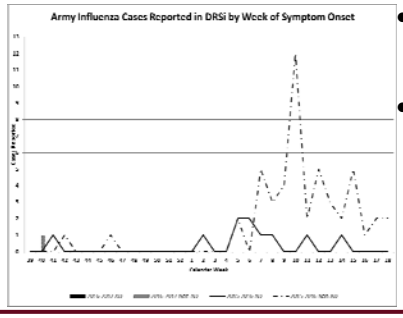
- During week 45, incident ILI activity was 3% lower than the same time last year and 8% lower than week 45 in 2014-2015.
- AD SMs accounted for 24% of incident ILI clinic visits during week 45; in 2015-2016, AD SMs comprised 24% of ILI clinic visits on average.

## Laboratory Respiratory Specimen Testing

| Army MTF Laboratory Results, 2016-17 | | | | | |
|---|---|---|---|---|---|
| Test Result | Week 42 | Week 43 | Week 44 | Week 45 | Season Total |
| Influenza A | 7 | 4 | 13 | 9 | **44** |
| Influenza B | 4 | 5 | 3 | 7 | **26** |
| Adenovirus | 11 | 7 | 5 | 4 | **35** |
| Enterovirus | 8 | 12 | 6 | 9 | **52** |
| Parainfluenza | 8 | 14 | 10 | 11 | **58** |
| RSV | 26 | 45 | 39 | 37 | **197** |
| *Negative* | *579* | *497* | *589* | *611* | **3238** |
| Total Results | **643** | **584** | **665** | **688** | **3650** |

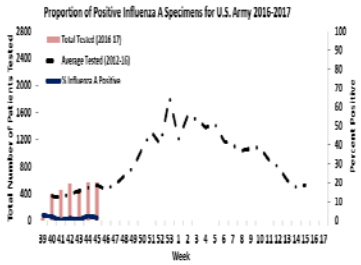
- In week 45, 11% (77) of specimens tested positive.
- RSV and parainfluenza accounted for 48% and 14% of positive specimens, respectively.
- Influenza A accounted for 12% of positive specimens.
- Influenza B accounted for 9%, and adenovirus for 5%.

## DRSi Influenza Case Reporting

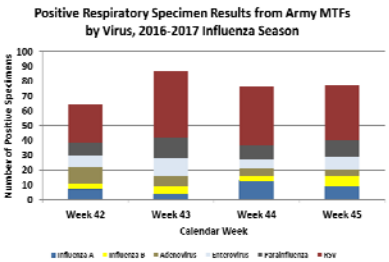



- In week 45, no cases of influenza-associated hospitalization were reported in DRSi.
- At the same time last influenza season, two influenza-associated hospitalizations were reported. One case has been reported so far this season.

## Laboratory Testing for Influenza A




- In week 45, 9 of 557 (1.6%) specimens tested positive for influenza A. This was an decrease from week 44 (2.3%). All (100%) of the positive influenza A specimens were from non-active duty individuals.
- RHC-C reported 4 (44%) of the total influenza A-positive specimens. RHC-P reported 3 (33%) positive specimens and RHC-A reported 2 (22%). RHC-E and CENTCOM did not report any positive influenza-A specimens.




**Additional Resources:** Army Influenza Reports; ARD Reports; AFHSC Influenza Reports; NHRC FRI Reports; DoD Global Influenza Surveillance Program; DoD Pandemic Influenza Watchboard; CDC

**Key:** ILI-Influenza-Like Illness; DRSi- Disease Reporting System Internet; NHRC- Naval Health Research Center; ADV-Adenovirus; RSV-Respiratory Syncytial Virus; DED- Disease Epidemiology Division; SM-Service Member

**Questions?**
Email APHC DEP
410-436-7605

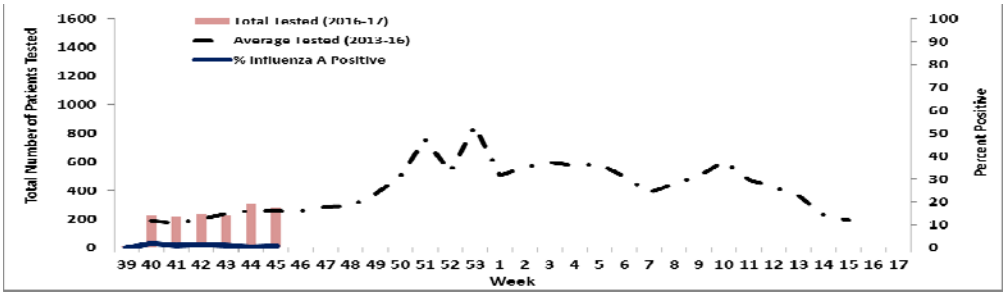
U.S. Army Medical Department

ARMY PUBLIC HEALTH CENTER

# U.S. Army Influenza Activity Report

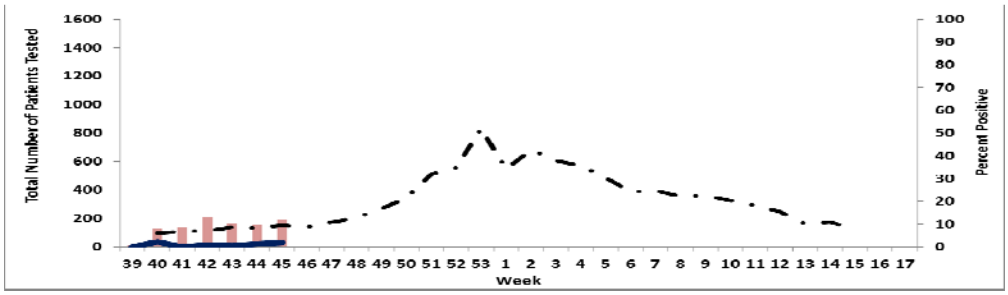
**Proportion of Influenza A Positive Specimens by Week and Region, Army Medical Laboratories, 2016-2017 as Compared to 2013-2016**

### *Regional Health Command - Atlantic (RHC-A)*



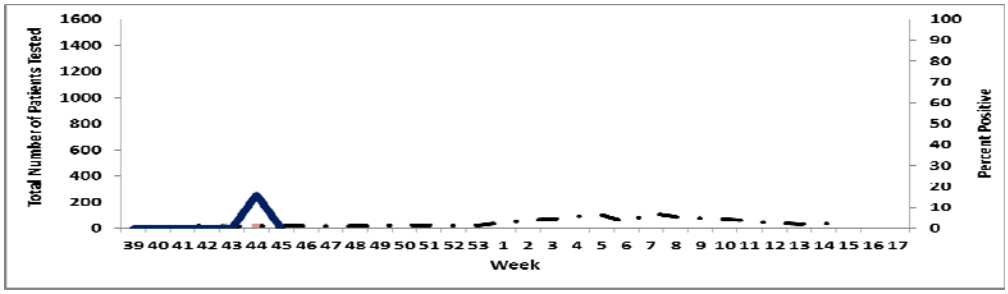

| Week 45 | | | |
|---|---|---|---|
| Age Group | AD | Non-AD Ben | Season Total |
| < 18 | 0 | 1 | 6 |
| 18-29 | 0 | 0 | 3 |
| 30-39 | 0 | 0 | 0 |
| 40-49 | 0 | 0 | 1 |
| 50-59 | 0 | 0 | 2 |
| 60+ | 0 | 1 | 2 |
| Total | 0 | 2 | 14 |

### *Regional Health Command - Central (RHC-C)*



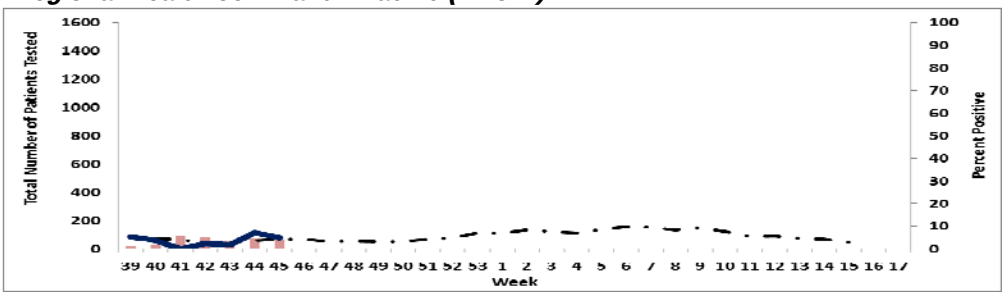

| Week 45 | | | |
|---|---|---|---|
| Age Group | AD | Non-AD Ben | Season Total |
| < 18 | 0 | 3 | 4 |
| 18-29 | 0 | 0 | 2 |
| 30-39 | 0 | 0 | 1 |
| 40-49 | 0 | 0 | 0 |
| 50-59 | 0 | 1 | 4 |
| 60+ | 0 | 0 | 1 |
| Total | 0 | 4 | 12 |

### *Regional Health Command - Europe (RHC-E)*




| Week 45 | | | |
|---|---|---|---|
| Age Group | AD | Non-AD Ben | Season Total |
| < 18 | 0 | 0 | 0 |
| 18-29 | 0 | 0 | 3 |
| 30-39 | 0 | 0 | 0 |
| 40-49 | 0 | 0 | 1 |
| 50-59 | 0 | 0 | 0 |
| 60+ | 0 | 0 | 1 |
| Total | 0 | 0 | 5 |

### *Regional Health Command - Pacific (RHC-P)*



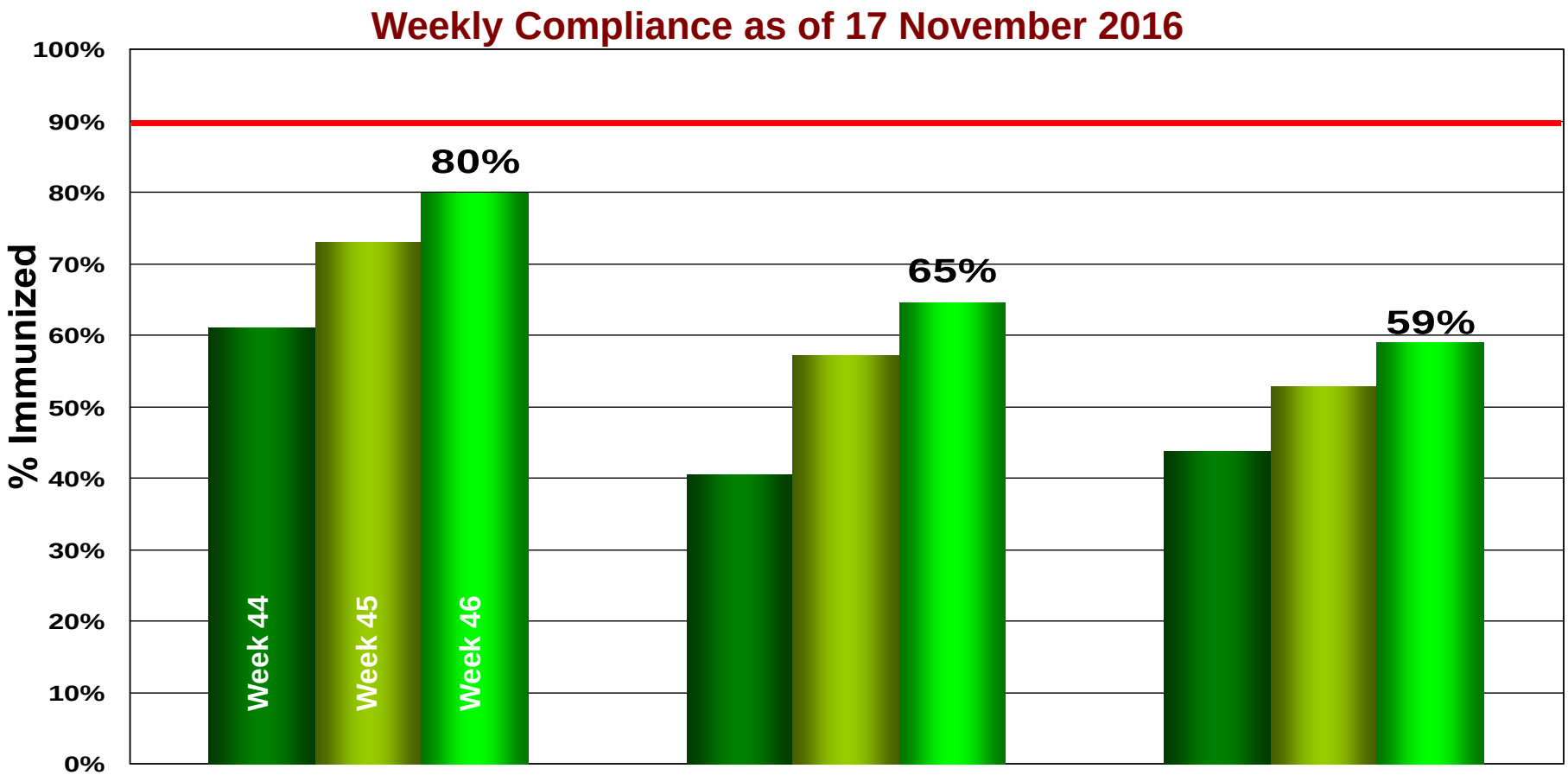

| Week 45 | | | |
|---|---|---|---|
| Age Group | AD | Non-AD Ben | Season Total |
| < 18 | 0 | 3 | 6 |
| 18-29 | 0 | 0 | 1 |
| 30-39 | 0 | 0 | 2 |
| 40-49 | 0 | 0 | 0 |
| 50-59 | 0 | 0 | 2 |
| 60+ | 0 | 0 | 2 |
| Total | 0 | 3 | 13 |

Number of Positive Influenza A Specimens by Duty Status and Region

| | Week 39 | | Week 40 | | Week 41 | | Week 42 | | Week 43 | | Week 44 | | Week 45 | | Week 46 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Region | AD | Non-AD | AD | Non-AD | AD | Non-AD | AD | Non-AD | AD | Non-AD | AD | Non-AD | AD | Non-AD | AD | Non-AD |
| RHC-A | 0 | 0 | 1 | 3 | 1 | 1 | 1 | 2 | 1 | 1 | 0 | 1 | 0 | 2 | | |
| RHC-C | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 1 | 0 | 4 | | |
| RHC-E | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | | |
| RHC-P | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 5 | 0 | 3 | | |
| CENTCOM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

**Locations providing week 45 laboratory data as of 16 November 2016:** Ft Belvoir (NCR), 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 Lewis, 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.

# Seasonal Influenza Immunization Status

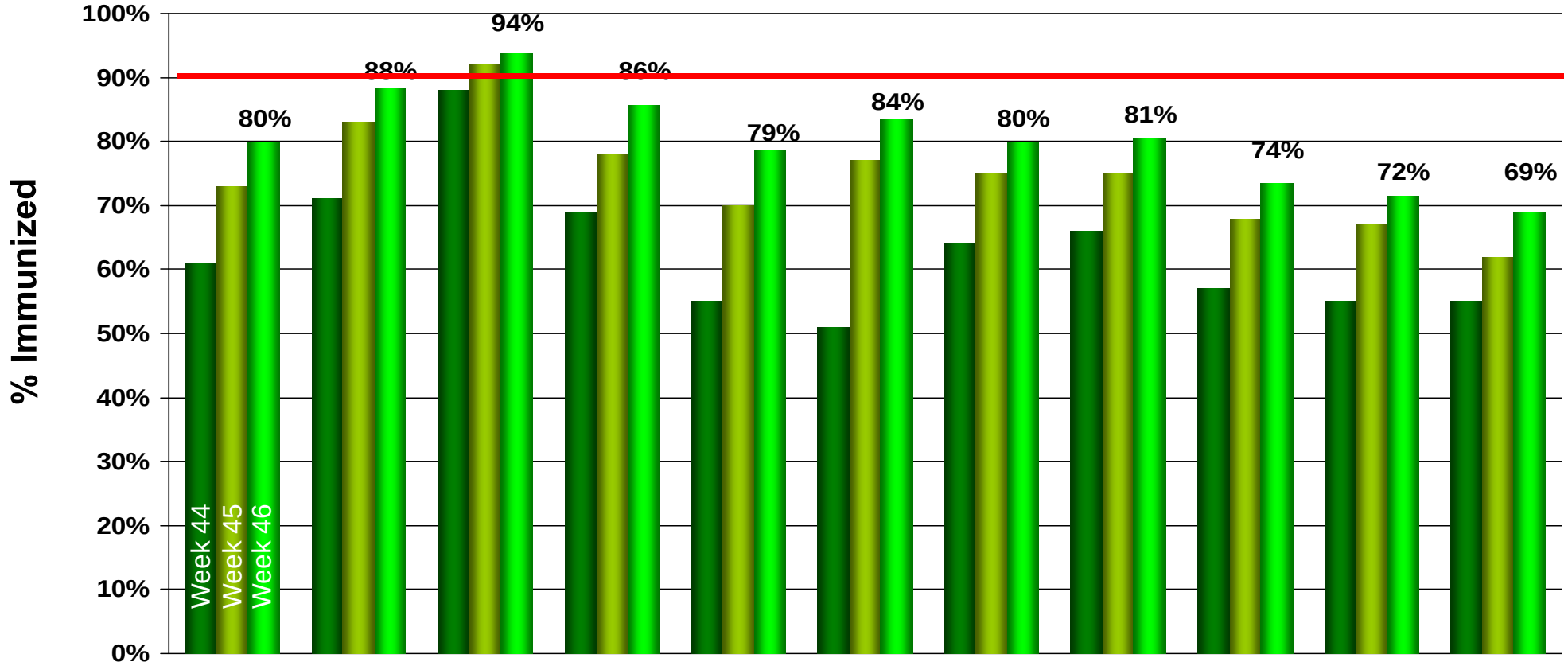



| | Active Army (COMPO 1) | National Guard (COMPO 2) | Reserve (COMPO 3) |
|---|---|---|---|
| # Eligible* | 466,030 | 333,382 | 186,134 |
| # Immunized | 372,529 | 215,298 | 109,826 |
| # Non-Immunized | 93,501 | 118,084 | 76,308 |

**Data Source: MEDPROS**
***Eligible = Assigned – Exempt**
**Previous weeks included for comparison**

# Seasonal Influenza Immunization Status

## Weekly Army (COMPO 1) compliance as of 17 November 2016

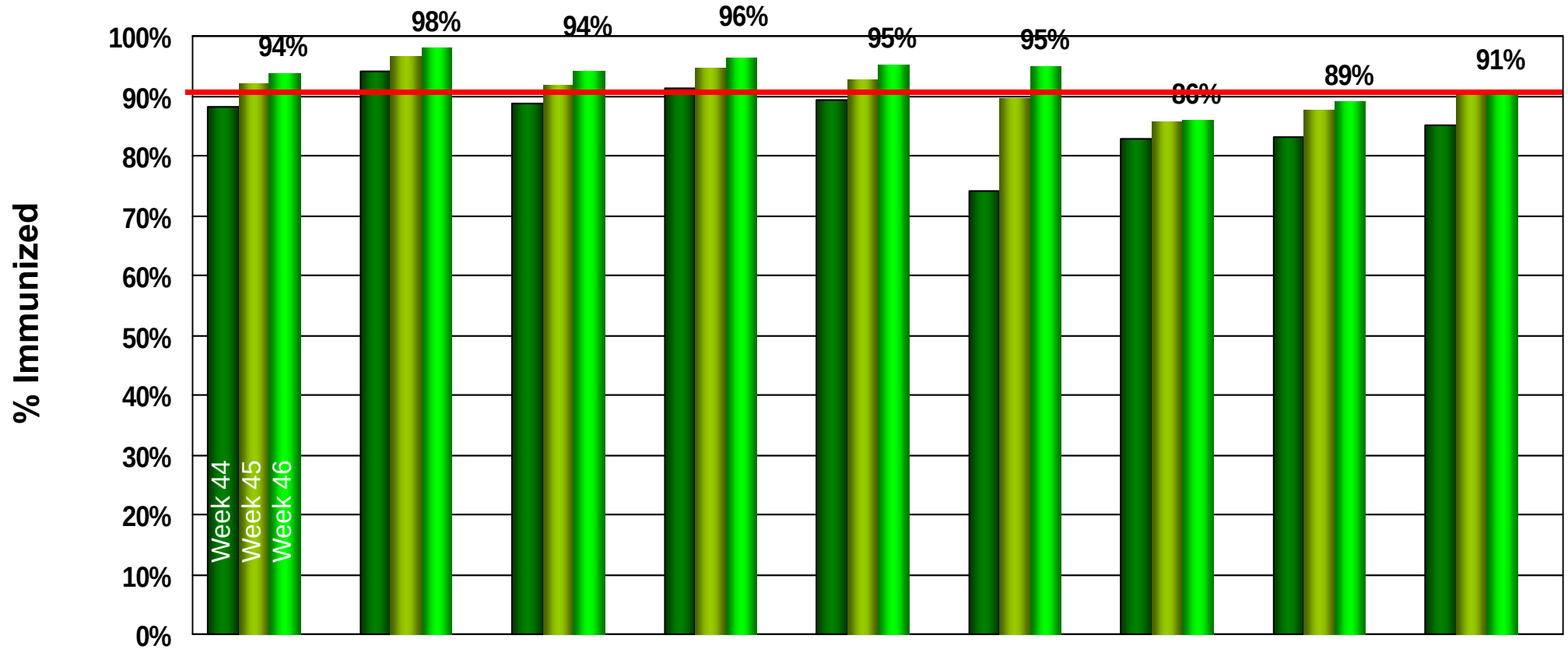



| | Active ARMY Total | USAREUR | MEDCOM | USARPAC | FORSCOM | ARCENT | AMC | TRADOC | USASOC | IMCOM | HQ, US ARMY |
|---|---|---|---|---|---|---|---|---|---|---|---|
| # Eligible* | 466,030 | 18,699 | 28,526 | 43,768 | 215,537 | 1,837 | 2,630 | 75,377 | 29,584 | 4,044 | 3,609 |
| # Immunized | 372,529 | 16,514 | 26,779 | 37,506 | 169,319 | 1,535 | 2,098 | 60,651 | 21,741 | 2,892 | 2,494 |
| # Non-Immunized | 93,501 | 2,185 | 1,747 | 6,262 | 46,218 | 302 | 532 | 14,726 | 7,843 | 1,152 | 1,115 |

Data Source: MEDPROS
*Eligible = Assigned – Exempt
Previous two weeks included for comparison

# Seasonal Influenza Immunization Status

## MEDCOM (COMPO 1) compliance as of 17 November 2016



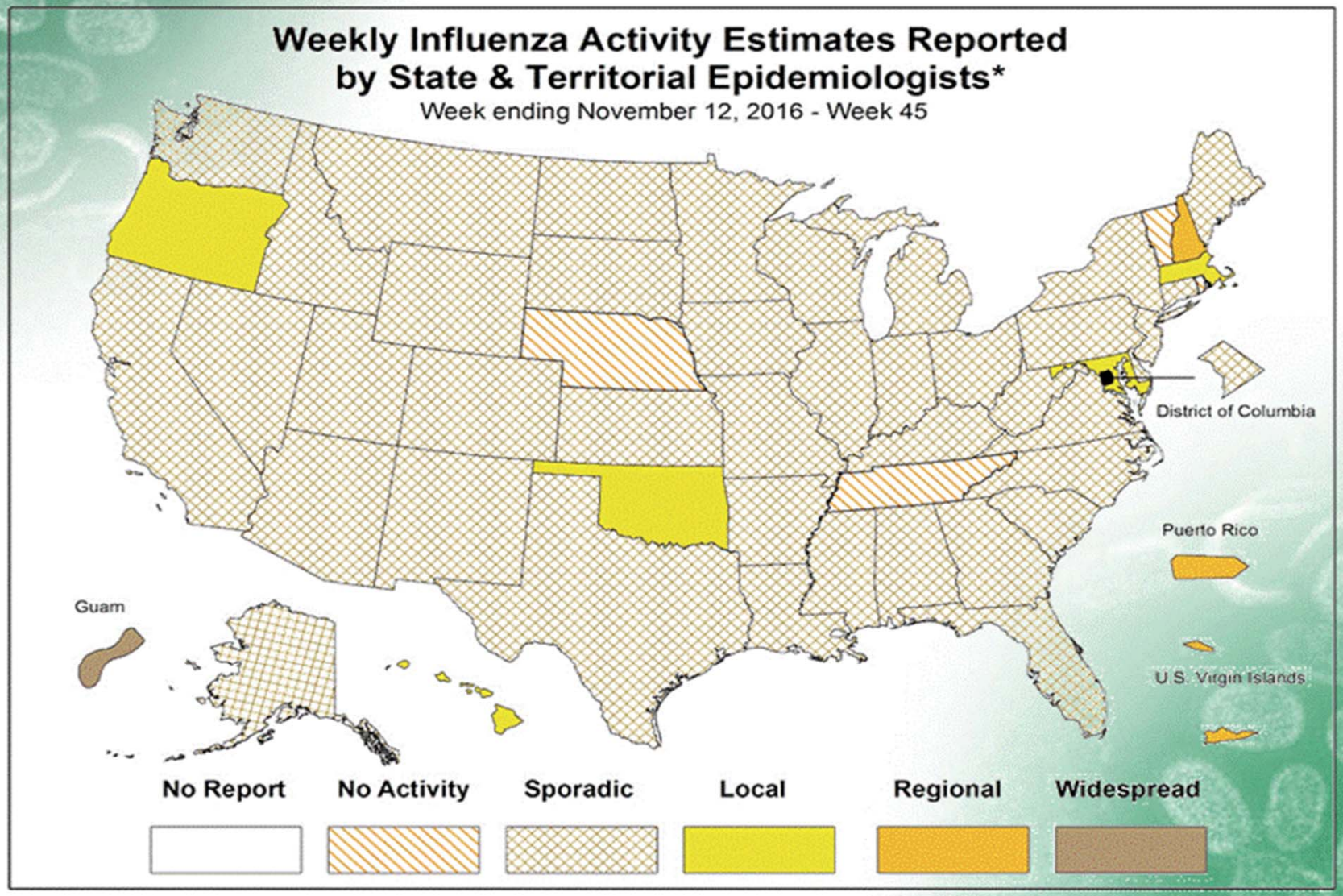

| | MEDCOM Total | RHC-E | RHC-P | RHC-C | RHC-A | MRMC | AMEDD C&S | OneStaff** | DHA NCR Army Personnel |
|---|---|---|---|---|---|---|---|---|---|
| # Eligible* | 28,526 | 1,816 | 4,348 | 6,978 | 6,235 | 1,046 | 4,176 | 509 | 784 |
| # Immunized | 26,779 | 1,778 | 4,100 | 6,718 | 5,940 | 992 | 3,564 | 453 | 690 |
| # Non-Immunized | 1,747 | 38 | 248 | 260 | 295 | 54 | 612 | 56 | 94 |

Data Source: MEDPROS
*Eligible = Assigned – Exempt
**Includes MEDCOM North & South
Previous two weeks included for comparison

# FLUVIEW

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

CDC
Centers for Disease Control and Prevention



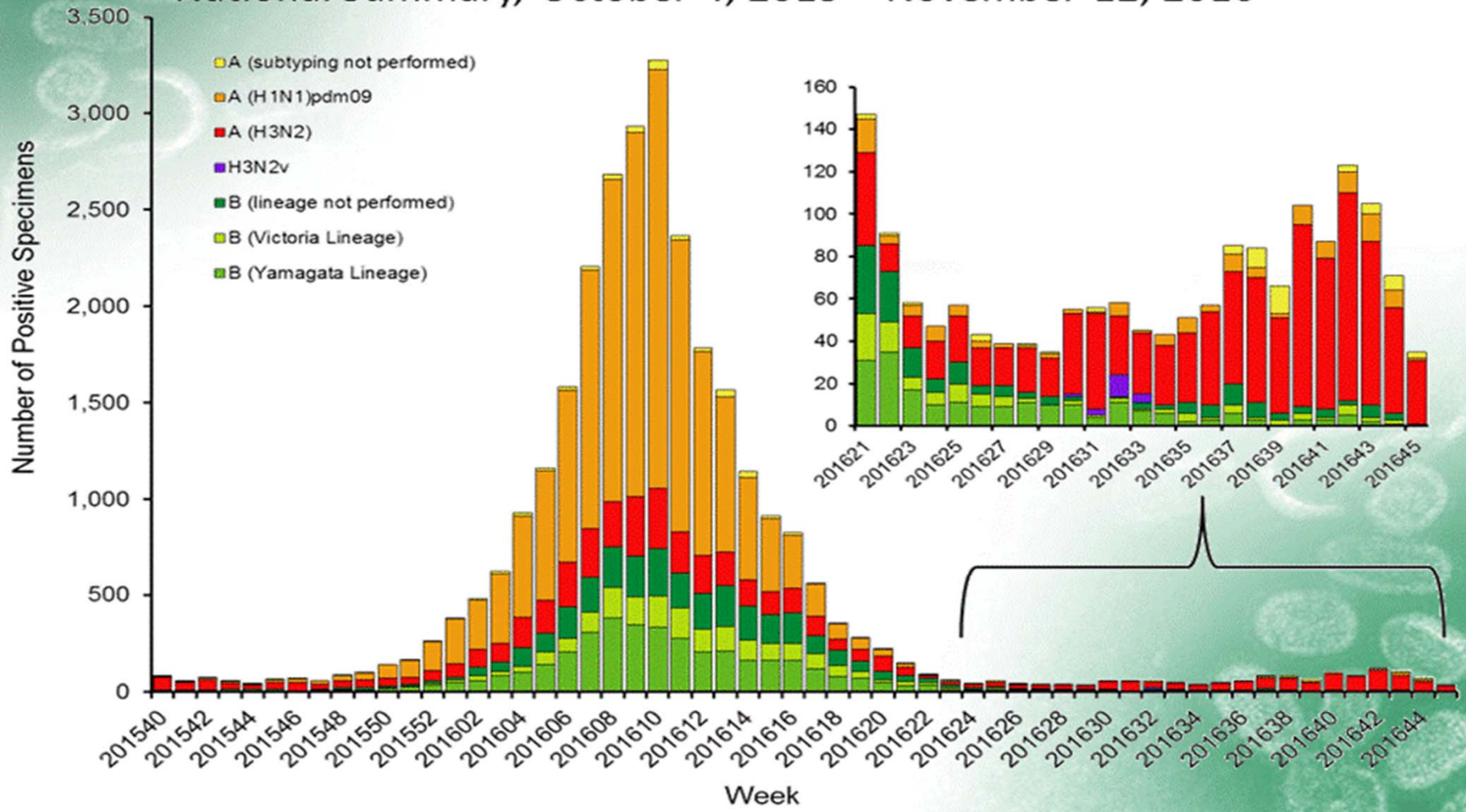

* This map indicates geographic spread & does not measure the severity of influenza activity

# FLUVIEW

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

CDC
Centers for Disease Control and Prevention

## Influenza Positive Tests Reported to CDC by U.S. Public Health Laboratories, National Summary, October 4, 2015 – November 12, 2016

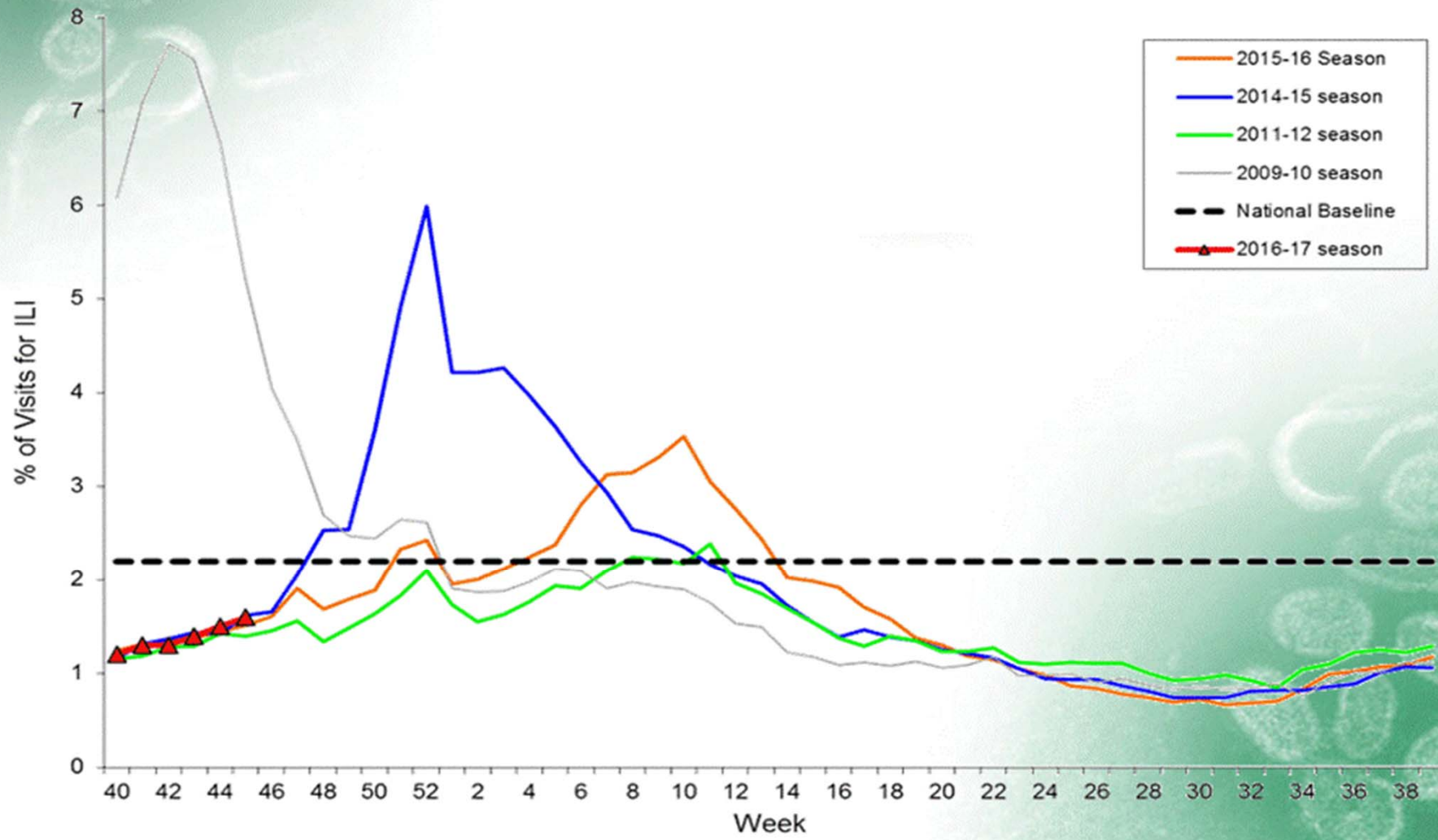


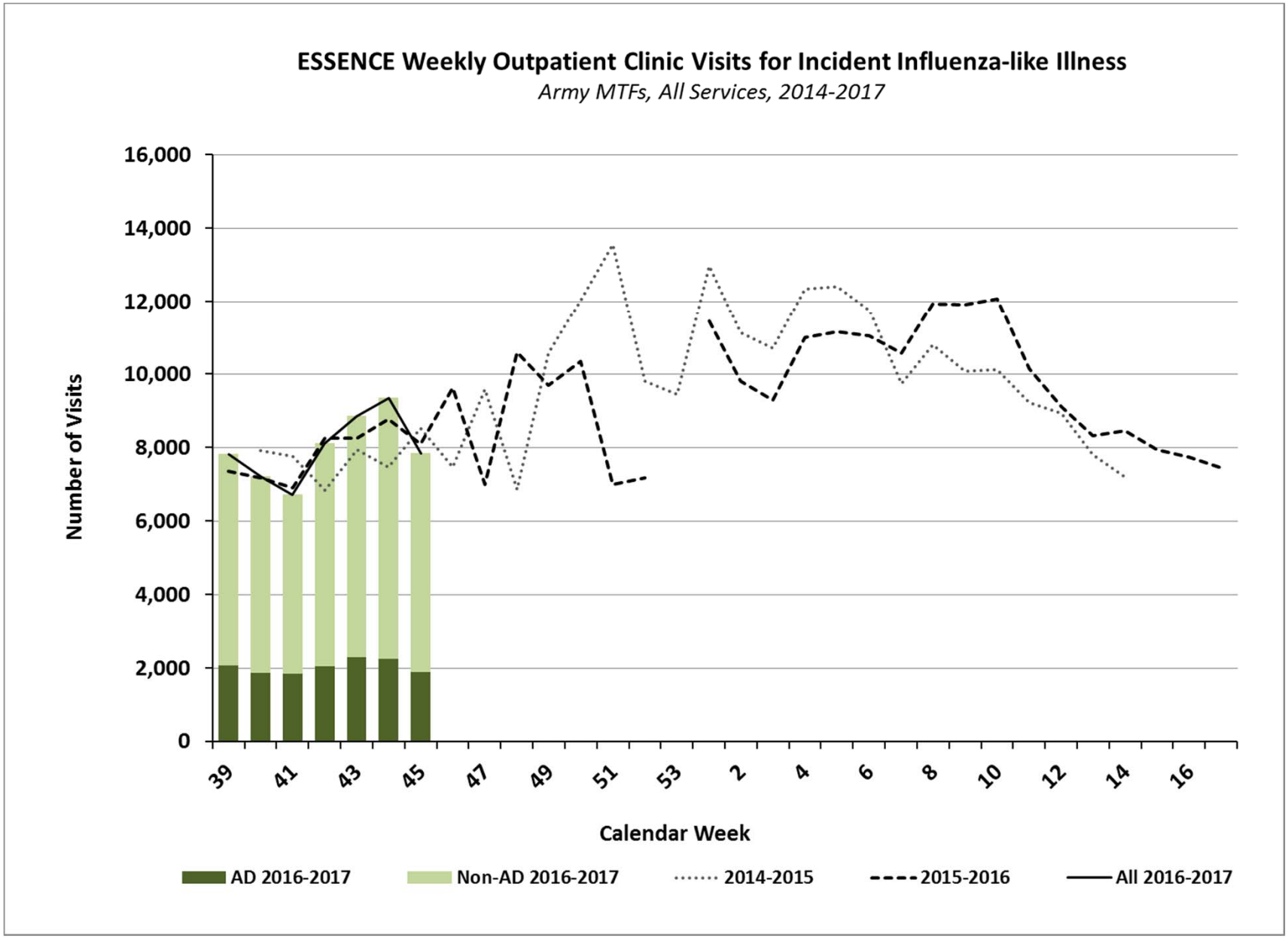
# FLUVIEW

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

CDC
Centers for Disease Control and Prevention

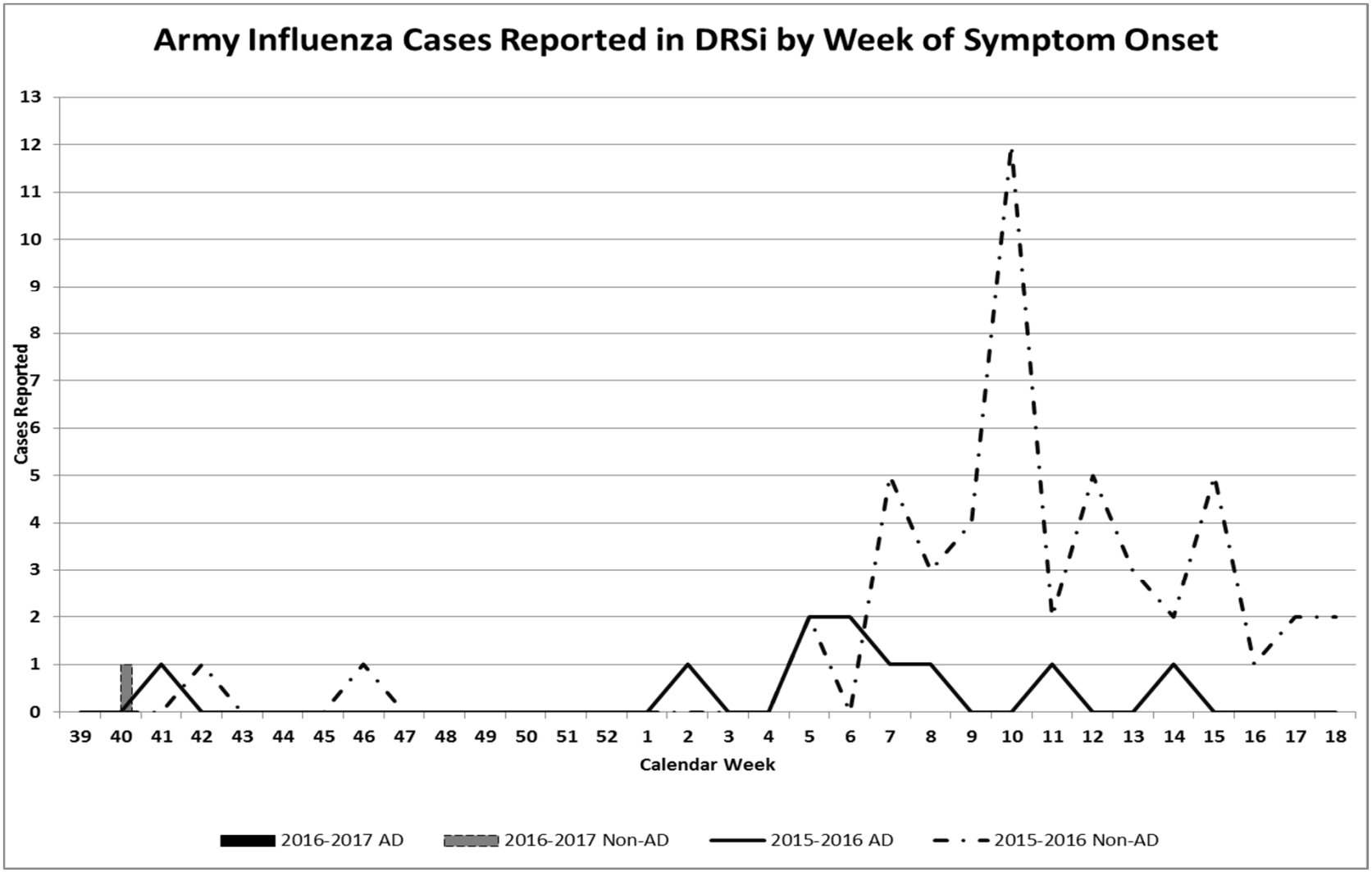
Percentage of Visits for Influenza-like Illness (ILI) Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), Weekly National Summary, 2016-2017 and Selected Previous Seasons



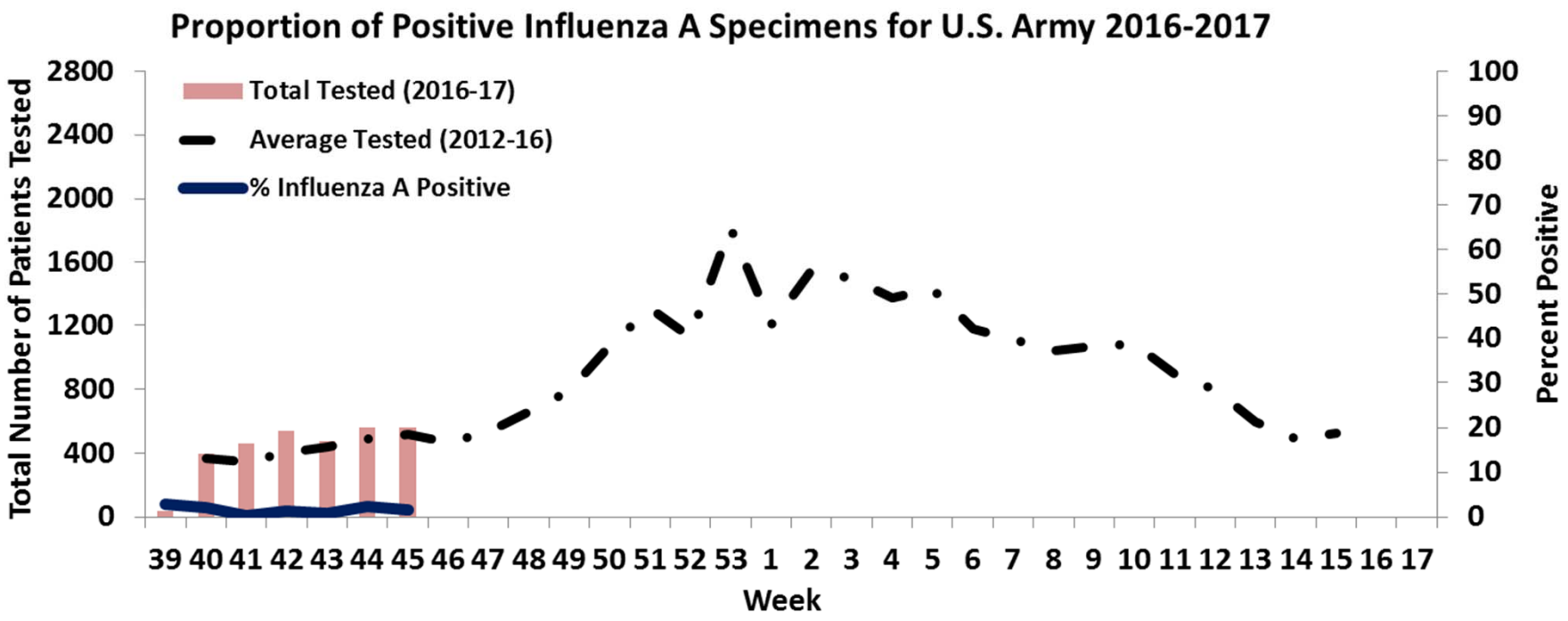


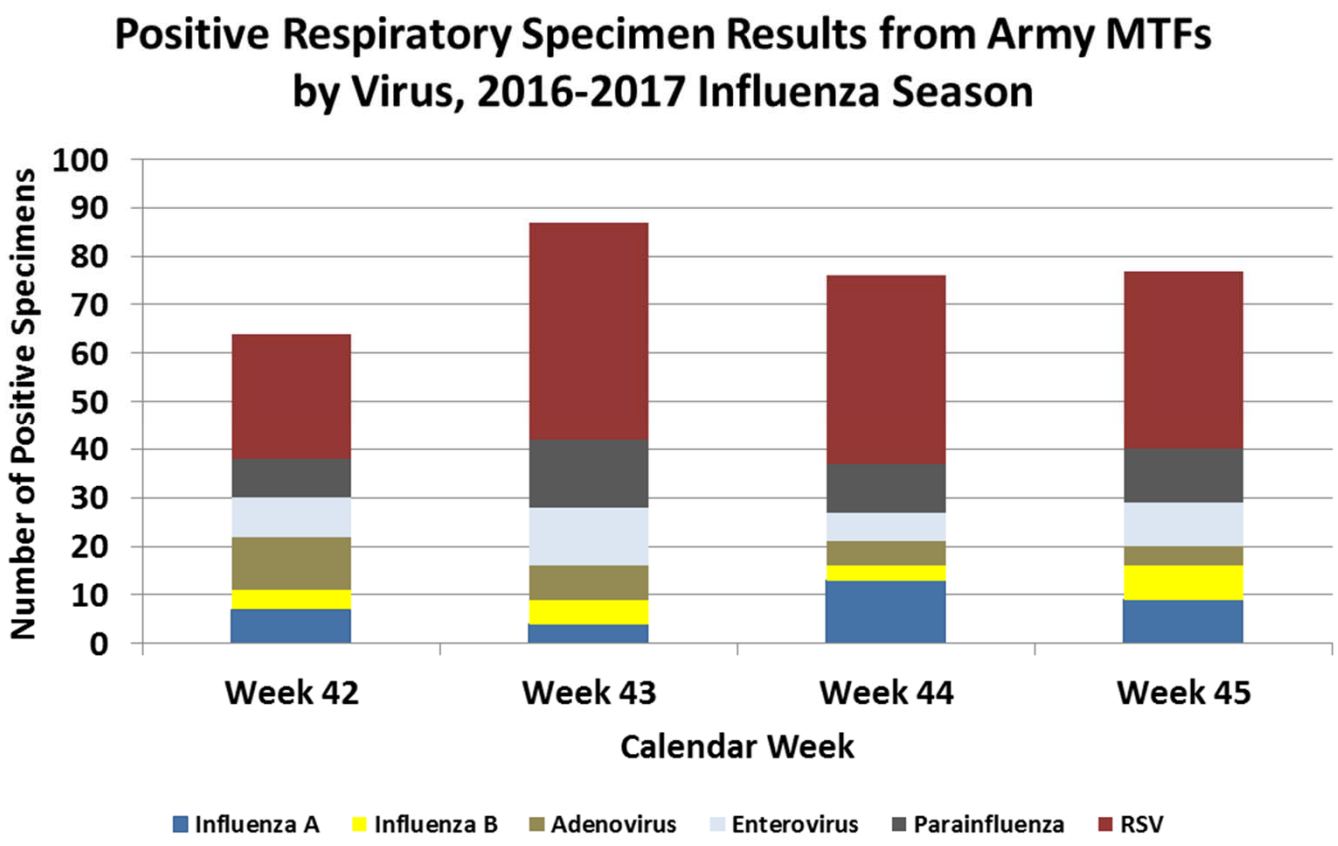

*Clinic visits for ILI are obtained from ESSENCE. Data as of 16 November 2016.*

| Army MTF Laboratory Results, 2016-17 | | | | | |
|---|---|---|---|---|---|
| **Test Result** | **Week 42** | **Week 43** | **Week 44** | **Week 45** | **Season Total** |
| **Influenza A** | 7 | 4 | 13 | 9 | **44** |
| **Influenza B** | 4 | 5 | 3 | 7 | **26** |
| **Adenovirus** | 11 | 7 | 5 | 4 | **35** |
| **Enterovirus** | 8 | 12 | 6 | 9 | **52** |
| **Parainfluenza** | 8 | 14 | 10 | 11 | **58** |
| **RSV** | 26 | 45 | 39 | 37 | **197** |
| ***Negative*** | *579* | *497* | *589* | *611* | **3238** |
| **Total Results** | **643** | **584** | **665** | **688** | **3650** |




**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 17 November 2016.*


Proportion of Positive Influenza A Specimens for U.S. Army 2016-2017
Total Tested (2016-17)
Average Tested (2012-16)
% Influenza A Positive
Total Number of Patients Tested
Percent Positive
Week
2800
2400
2000
1600
1200
800
400
0
100
90
80
70
60
50
40
30
20
10
0
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17


Positive Respiratory Specimen Results from Army MTFs
by Virus, 2016-2017 Influenza Season
Number of Positive Specimens
100
90
80
70
60
50
40
30
20
10
0
Week 42
Week 43
Week 44
Week 45
Calendar Week
Influenza A
Influenza B
Adenovirus
Enterovirus
Parainfluenza
RSV

Number of Positive Influenza A Specimens by Duty Status and Region

| | Week 39 | | Week 40 | | Week 41 | | Week 42 | | Week 43 | | Week 44 | | Week 45 | | Week 46 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Region | AD | Non-AD | AD | Non-AD | AD | Non-AD | AD | Non-AD | AD | Non-AD | AD | Non-AD | AD | Non-AD | AD | Non-AD |
| RHC-A | 0 | 0 | 1 | 3 | 1 | 1 | 1 | 2 | 1 | 1 | 0 | 1 | 0 | 2 | | |
| RHC-C | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 1 | 0 | 4 | | |
| RHC-E | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | | |
| RHC-P | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 5 | 0 | 3 | | |
| CENTCOM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |