U.S. Army Medical Department

ARMY PUBLIC HEALTH CENTER (Provisional)

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U.S. Army Influenza Activity Report

Week Ending 6 February 2016 (Week 05)

2015-2016 Seasonal Influenza Vaccination Coverage
As of 12 February 2016

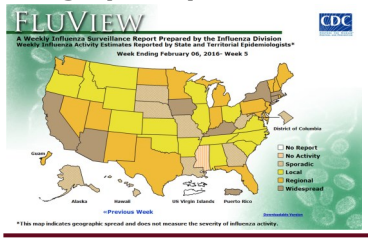
94%	DOD
97%	Army Active Duty
93%	Army Guard
83%	Army Reserve

*Source: DHA

SYNOPSIS: Influenza activity continues to increase throughout Army MTFs and the civilian population, predominately influenza A.

- **ILI Activity:** Army incident ILI outpatient visits in week 5 were 17% lower than the same week last year.
- **Influenza cases:** Four hospitalized influenza cases were reported to APHC (Prov) through DRSi in week 5; 2 AD service members and 2 non-AD beneficiaries. Three of the cases had underlying conditions and 2 were not vaccinated.
- **Viral specimens:** During week 5, 175 of 993 (18%) laboratory specimens tested positive for respiratory pathogens. RHC-A reported 17 influenza A-positive specimens, RHC-C reported 14, RHC-P and RHC-E both reported 6, and CENTCOM reported 1.

Geographic Spread

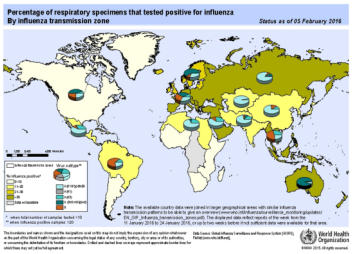


United States

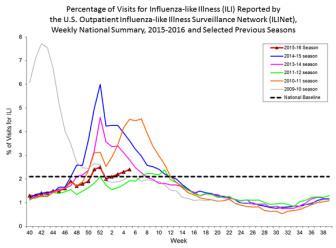
- In week 5, widespread and regional influenza activity was reported in Puerto Rico, Guam and twenty-four states. Sixteen states reported local influenza activity, while the District of Columbia and nine states reported sporadic. No activity was reported in MS and the US Virgin Islands.

World Health Organization

- Globally, increasing levels of influenza activity continued to be reported in the temperate zones of the northern hemisphere with influenza A(H1N1) pdm09 as the most detected virus.

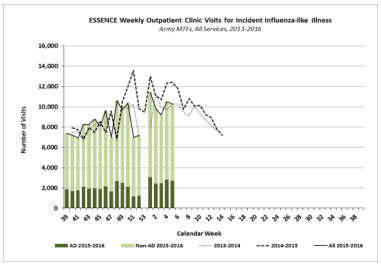


ILI Activity United States



- Nationwide during week 5, 2.4% of outpatient visits reported in ILINet were due to ILI, which is slightly above the national baseline of 2.1%.
- The percentage of ILI outpatient visits ranged from 1.1% to 4.5% across the regions reporting.

ILI Activity Army



- During week 5, incident ILI activity was 17% lower than the same time last year and less than 1% lower than week 5 in 2013-2014.
- AD SMs accounted for 27% of incident ILI clinic visits during week 5; in 2014-2015, AD SMs comprised 24% of ILI clinic visits on average.

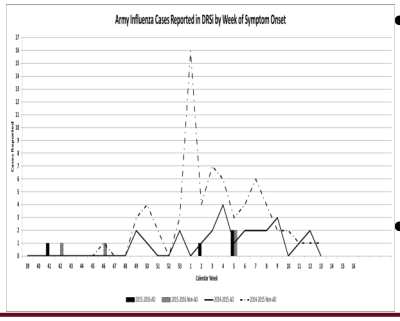
Laboratory Respiratory Specimen Testing

Army MTF Laboratory Results, 2015-16

Test Result	Week 2	Week 3	Week 4	Week 5	Season Total
Influenza A	27	19	43	44	**215**
Influenza B	5	19	15	30	**113**
Adenovirus	22	3	11	12	**167**
Enterovirus	0	2	0	0	**19**
Parainfluenza	5	5	2	8	**195**
RSV	67	84	81	81	**1143**
Negative	*568*	*547*	*716*	*818*	**10856**
Total Results	**694**	**679**	**868**	**993**	**12708**

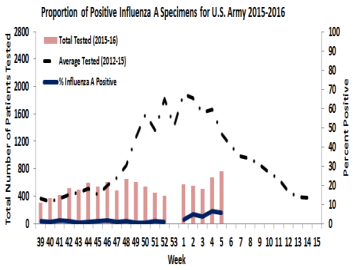
- In week 5, 18% (175) of specimens tested positive.
- RSV accounted for 46% of positive specimens.
- Influenza A accounted for 25% of positive specimens.
- Influenza B accounted for 17% of positive specimens.
- Adenovirus accounted for 7%, and parainfluenza for 5%.

DRSi Influenza Case Reporting

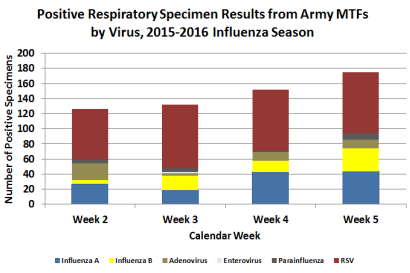


- In week 5, four cases of influenza-associated hospitalization were reported in DRSi; 2 AD Service Members and 2 non-AD beneficiaries. 3 of the individuals had underlying conditions and 2 were unvaccinated.
- A total of 8 hospitalized cases have been reported to date this season, compared to 58 last season.

Laboratory Testing for Influenza A



- In week 5, 44 of 759 (5.8%) specimens tested positive for influenza A. This was a decrease from week 4 (6.4%). 32 (73%) of the positive influenza A specimens were in non-active duty personnel.
- RHC-A reported 17 (39%) of the total influenza A-positive specimens. RHC-C reported 14 (32%) positive specimens, RHC-P and RHC-E both reported 6 (14%), and CENTCOM reported 1 (2%).



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

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

Questions?
Email APHC-DEP
410-417-3774

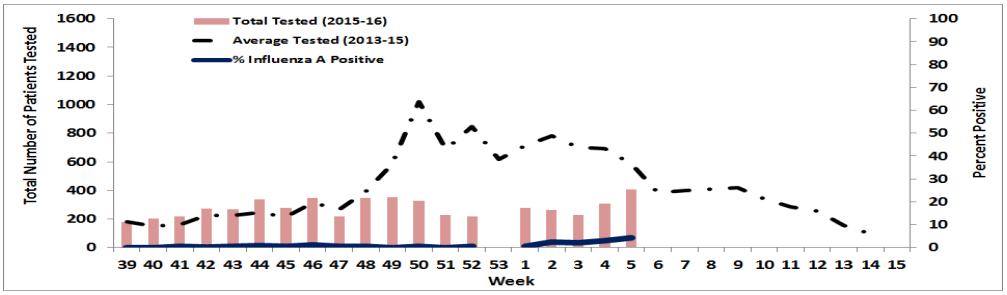
U.S. Army Medical Department

ARMY PUBLIC HEALTH CENTER (Provisional)

U.S. Army Influenza Activity Report

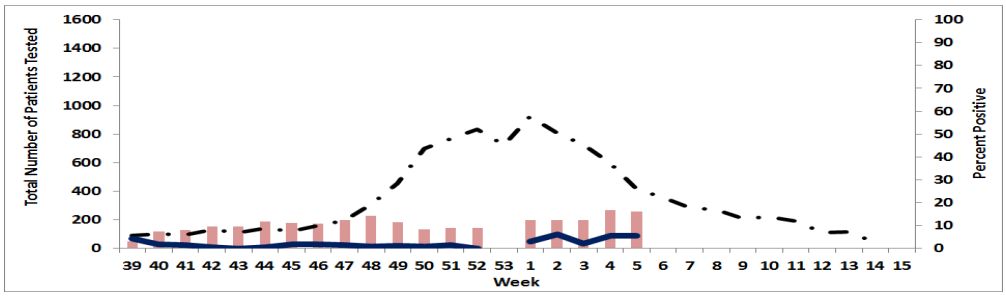
Proportion of Influenza A Positive Specimens by Week and Region, Army Medical Laboratories, 2015-2016 as Compared to 2013-2015

Regional Health Command - Atlantic (RHC-A)



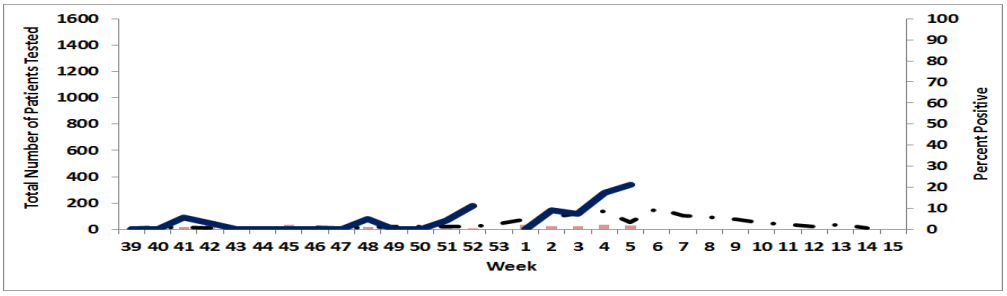
Week 5			
Age Group	AD	Non-AD Ben	Season Total
< 18	0	6	29
18-29	2	1	7
30-39	1	1	5
40-49	1	0	7
50-59	1	3	7
60+	0	1	3
Total	5	12	58

Regional Health Command - Central (RHC-C)



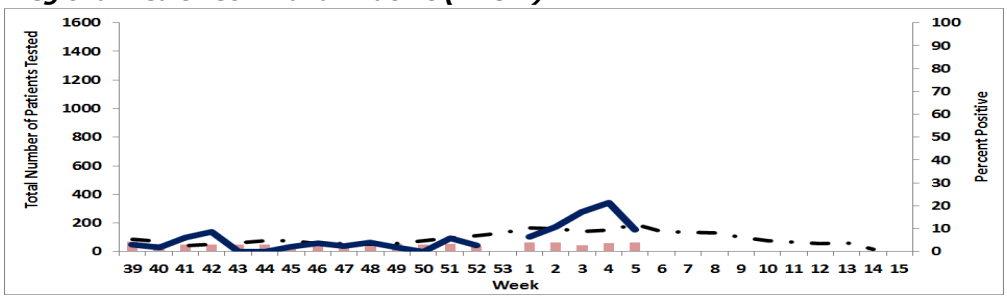
Week 5			
Age Group	AD	Non-AD Ben	Season Total
< 18	0	7	31
18-29	2	2	21
30-39	1	0	12
40-49	0	0	6
50-59	1	0	4
60+	0	1	1
Total	4	10	75

Regional Health Command - Europe (RHC-E)



Week 5			
Age Group	AD	Non-AD Ben	Season Total
< 18	0	4	10
18-29	0	0	2
30-39	0	1	5
40-49	1	0	4
50-59	0	0	0
60+	0	0	0
Total	1	5	21

Regional Health Command - Pacific (RHC-P)



Week 5			
Age Group	AD	Non-AD Ben	Season Total
< 18	0	1	27
18-29	0	0	12
30-39	0	1	7
40-49	0	3	7
50-59	1	0	4
60+	0	0	2
Total	1	5	59

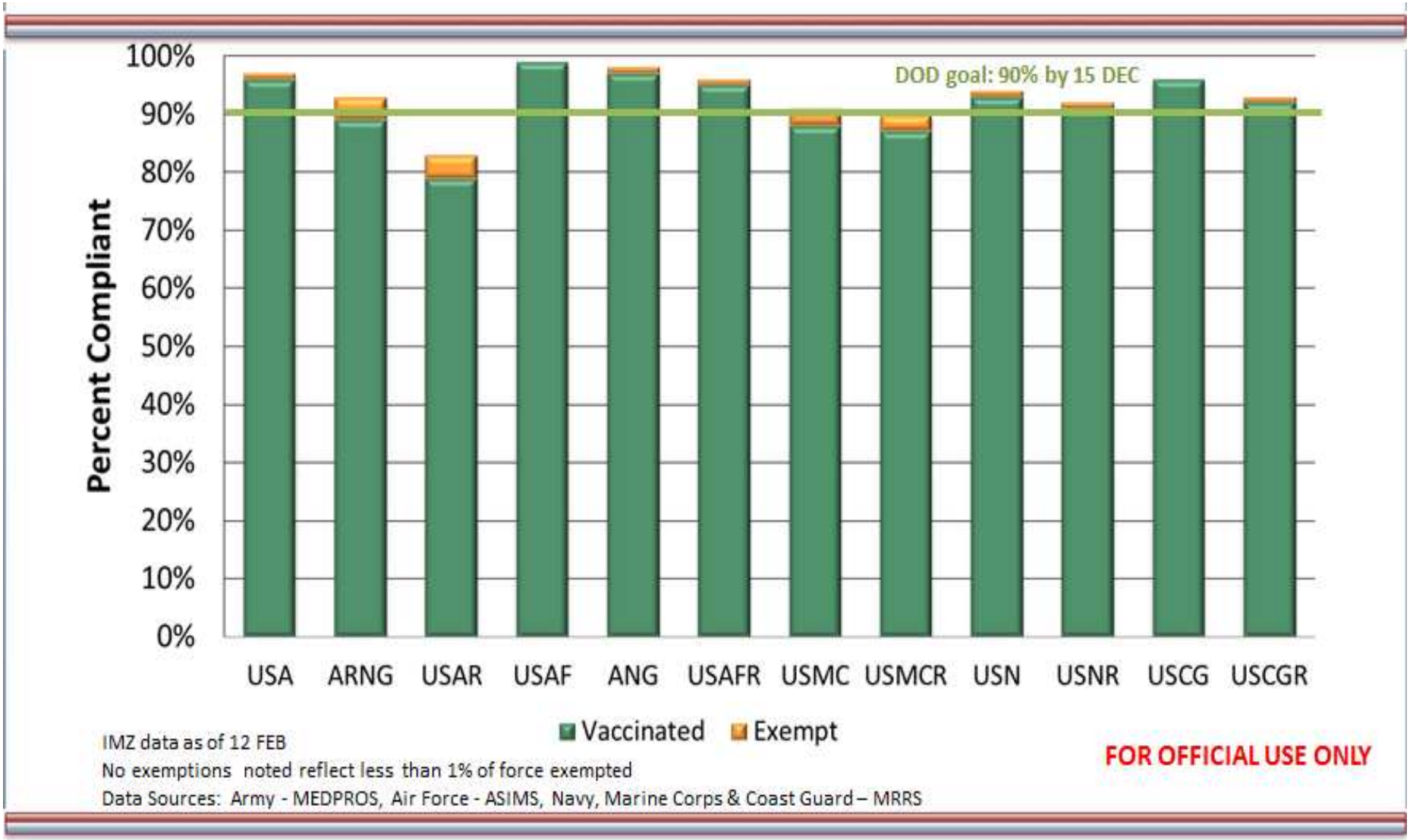
Number of Positive Influenza A Specimens by Duty Status and Region

	Week 50		Week 51		Week 52		Week 1		Week 2		Week 3		Week 4		Week 5	
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	2	0	0	1	0	0	2	3	3	2	3	1	8	5	12
RHC-C	1	0	1	1	0	0	2	4	6	6	2	2	5	10	4	10
RHC-E	0	0	0	1	0	1	0	0	1	1	2	0	2	4	1	5
RHC-P	0	0	1	2	0	1	1	3	1	6	0	8	3	10	1	5
CENTCOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

Locations providing week 5 laboratory data as of 9 February 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

Weekly Army (COMPO 1) compliance as of 12 February 2016

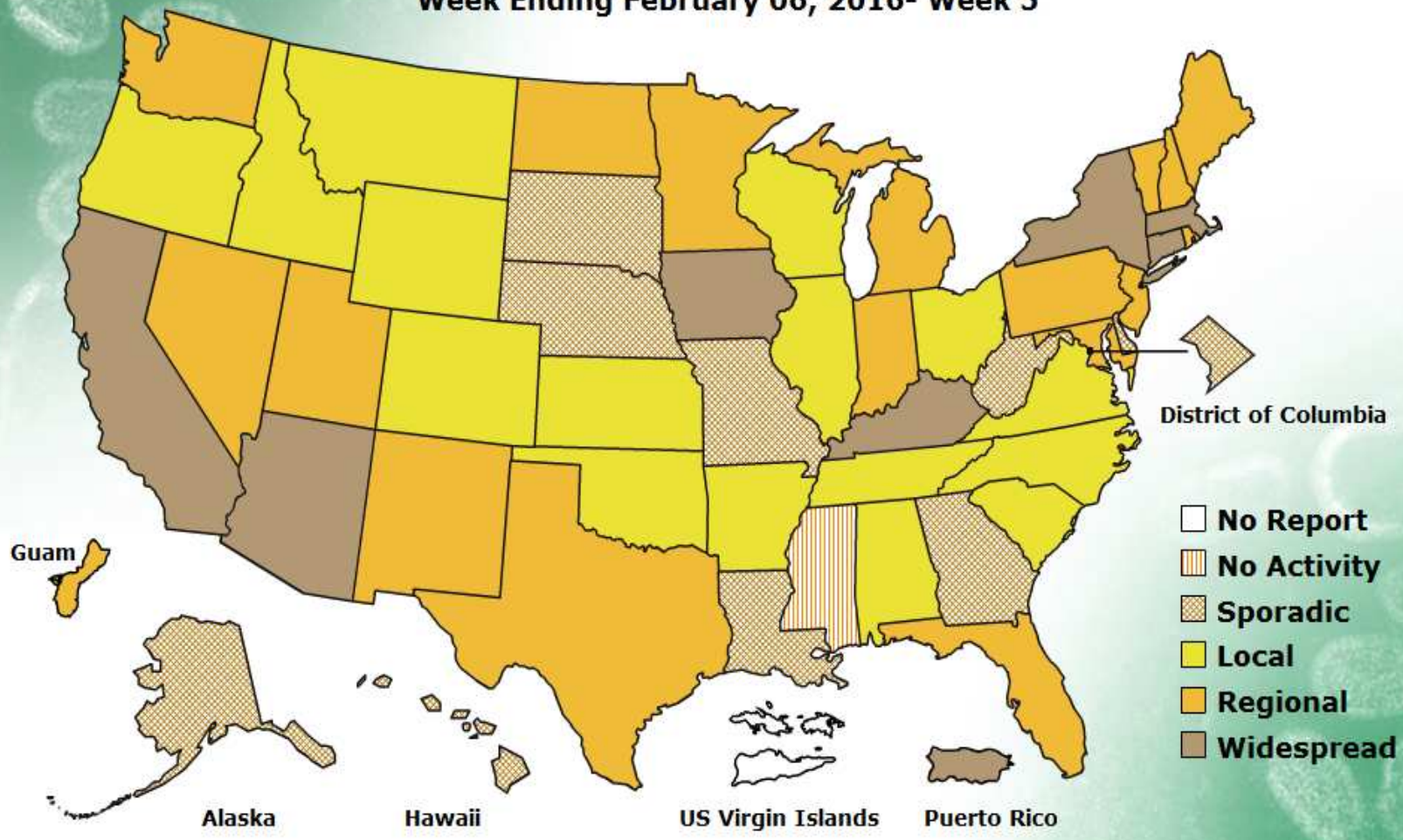


Data Source: MEDPROS
Previous weeks included for comparison

FLUVIEW

A Weekly Influenza Surveillance Report Prepared by the Influenza Division
Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending February 06, 2016- Week 5



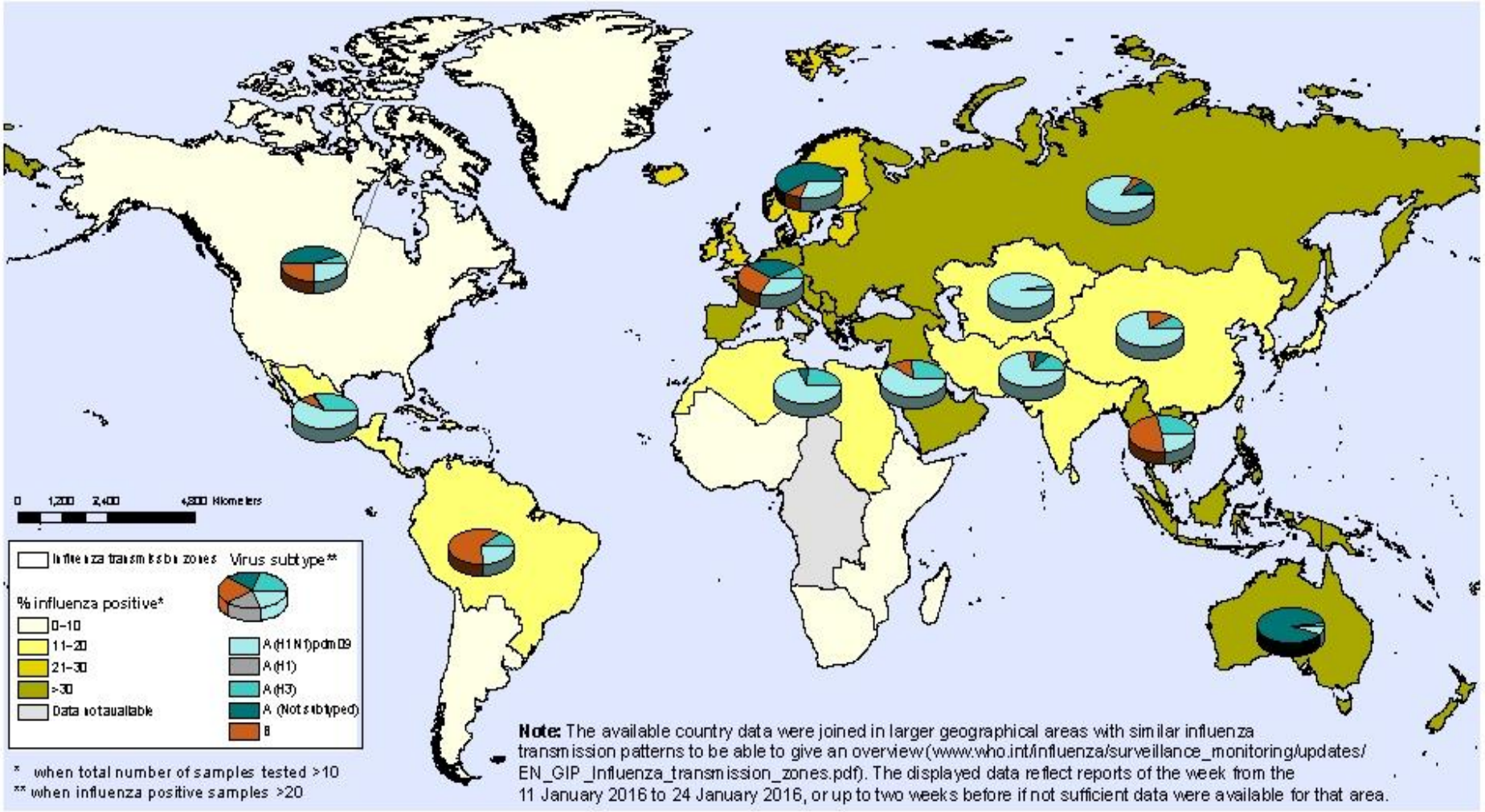
«Previous Week

Downloadable Version

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

Percentage of respiratory specimens that tested positive for influenza
By influenza transmission zone

Status as of 05 February 2016



* when total number of samples tested >10
** when influenza positive samples >20

Note: The available country data were joined in larger geographical areas with similar influenza transmission patterns to be able to give an overview (www.who.int/influenza/surveillance_monitoring/updates/EN_GIP_Influenza_transmission_zones.pdf). The displayed data reflect reports of the week from the 11 January 2016 to 24 January 2016, or up to two weeks before if not sufficient data were available for that area.

The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: Global Influenza Surveillance and Response System (GISRS), FluNet (www.who.int/flunet).

World Health Organization

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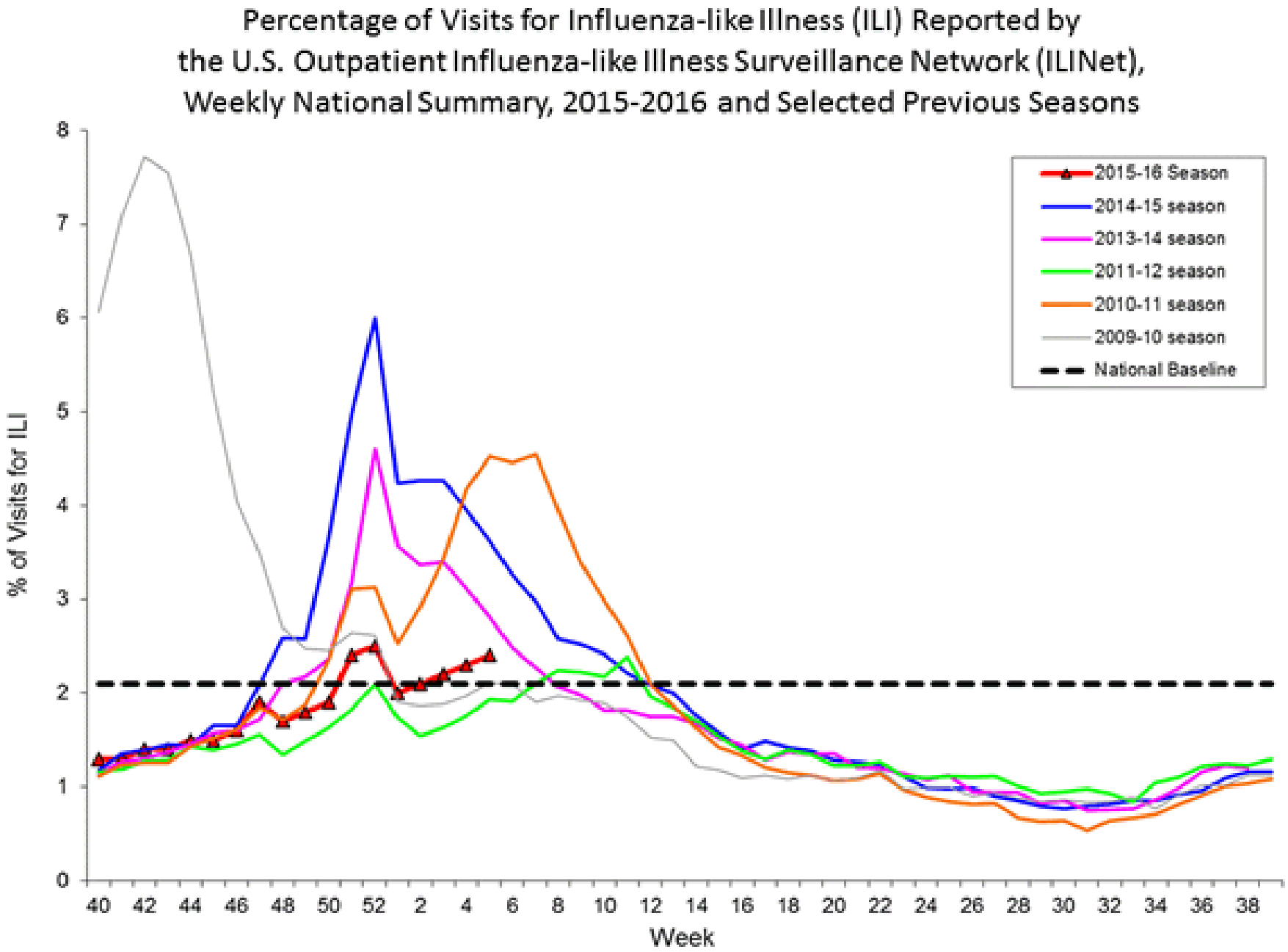
Percentage of Visits for Influenza-like Illness (ILI) Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), Weekly National Summary, 2015-2016 and Selected Previous Seasons
% of Visits for ILI
Week
2015-16 Season
2014-15 season
2013-14 season
2011-12 season
2010-11 season
2009-10 season
National Baseline
0
1
2
3
4
5
6
7
8
40
42
44
46
48
50
52
2
4
6
8
10
12
14
16
18
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22
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28
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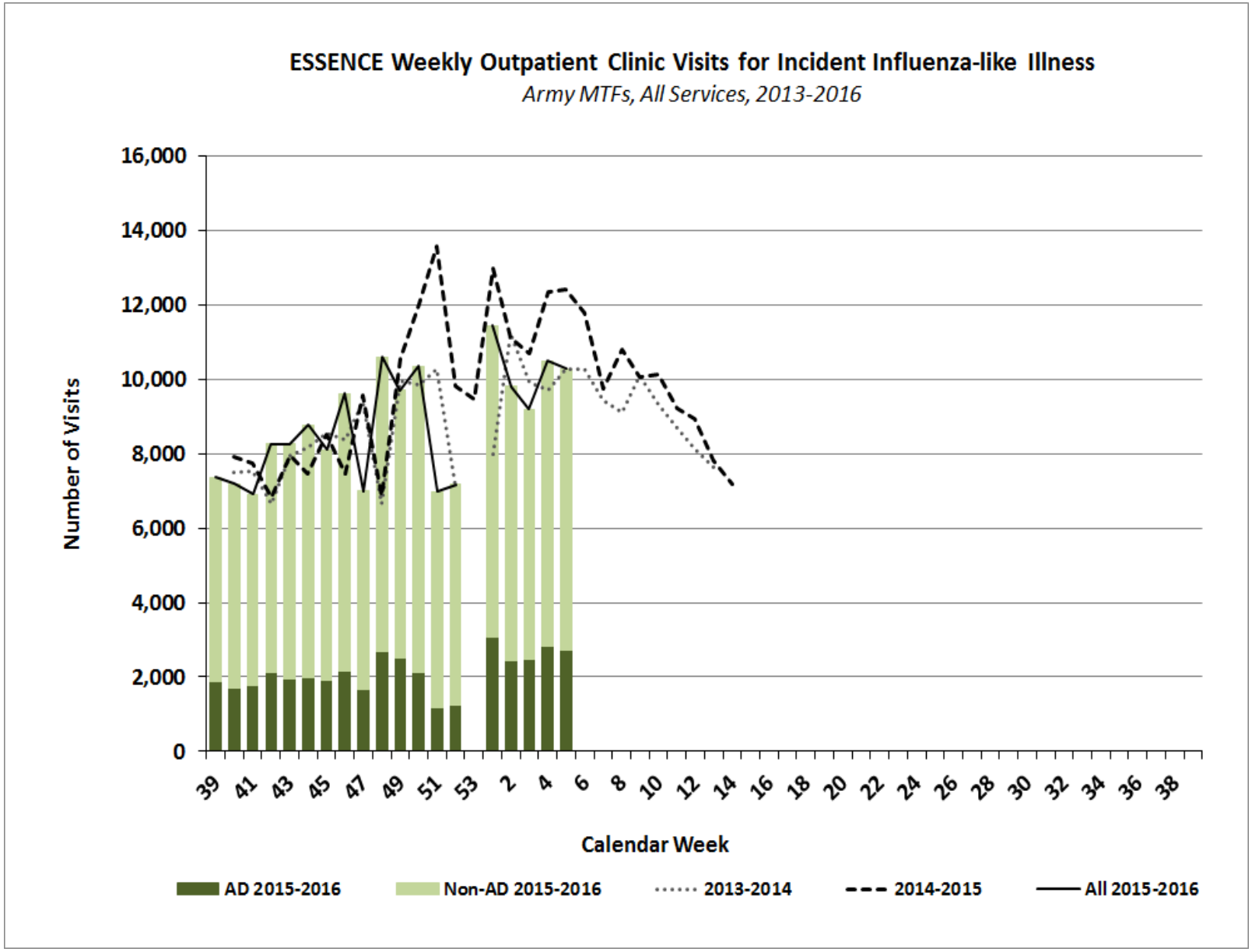
32
34
36
38



Clinic visits for ILI are obtained from ESSENCE. Data as of 10 February 2016.

Army MTF Laboratory Results, 2015-16					
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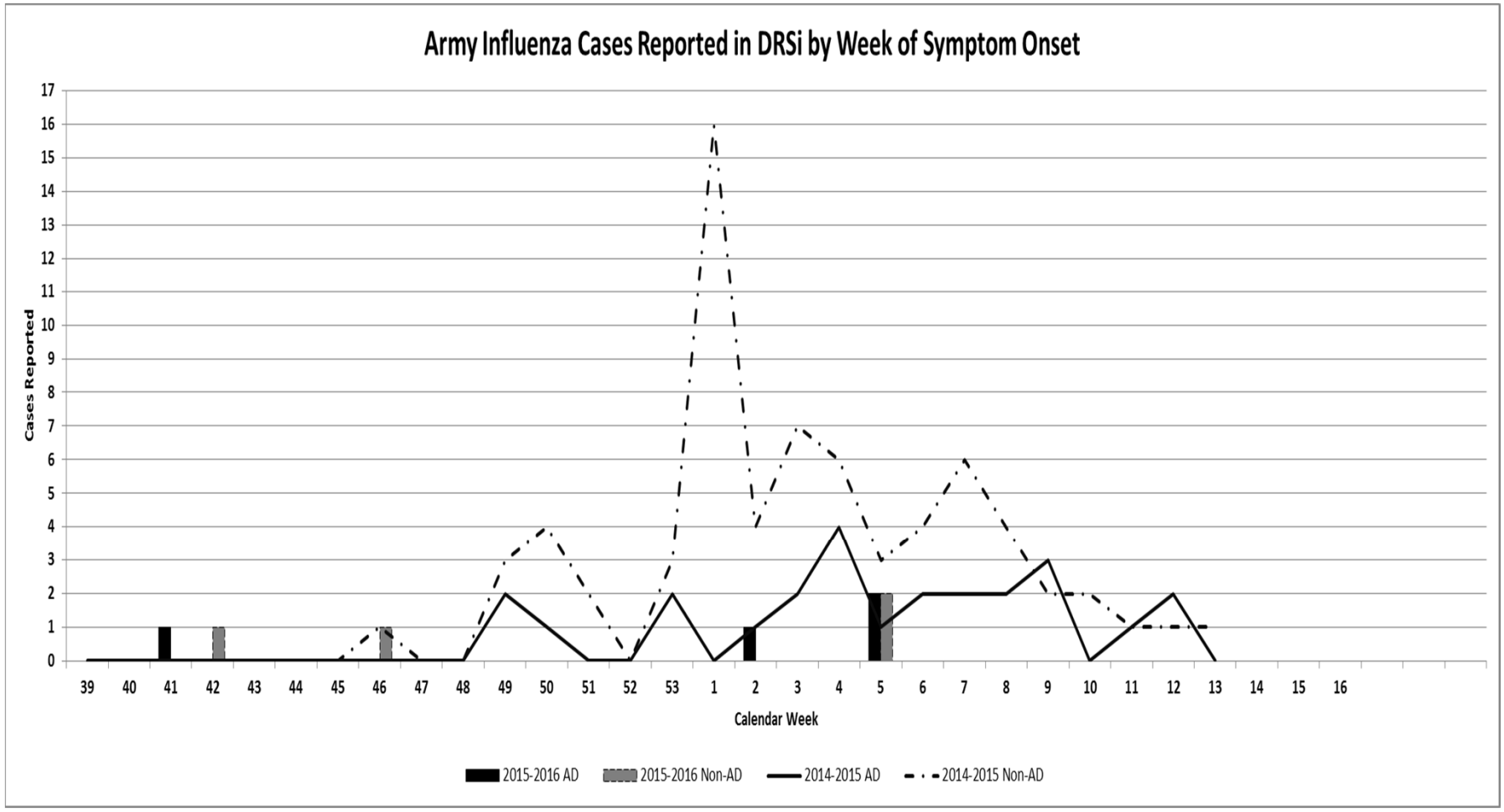
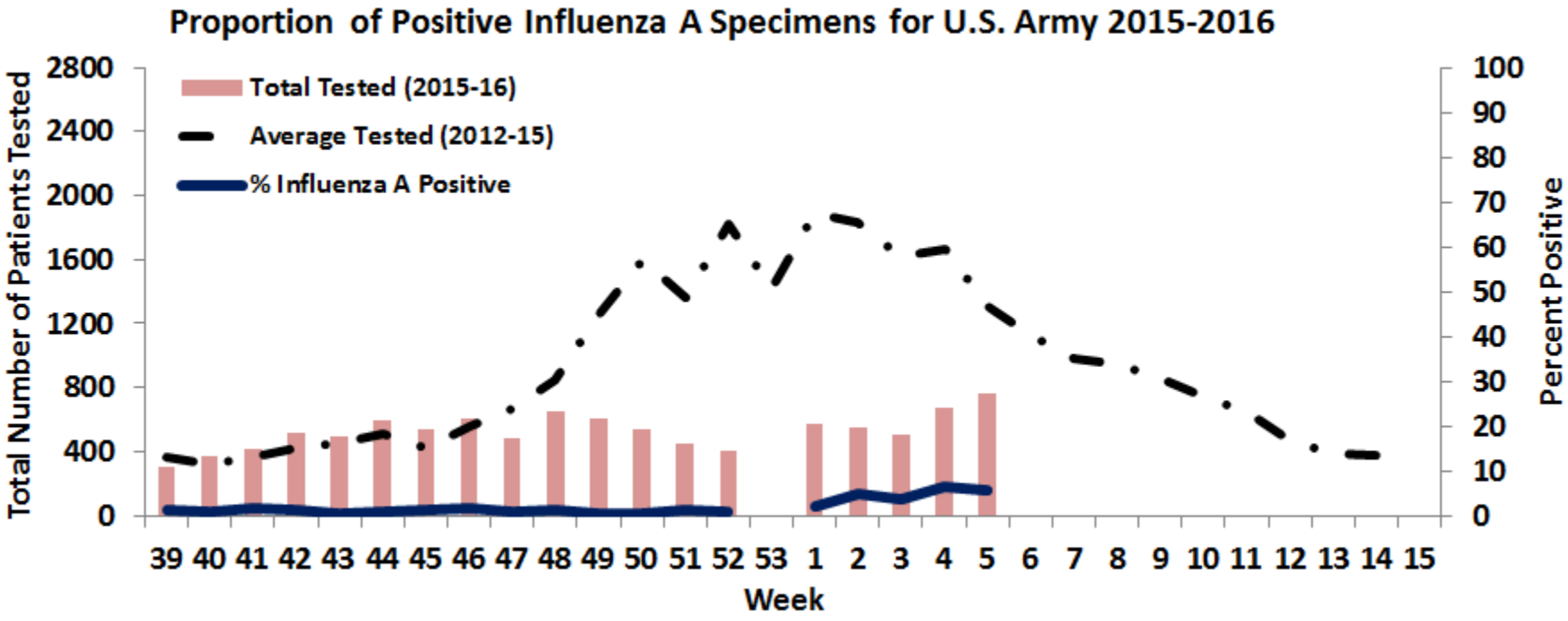
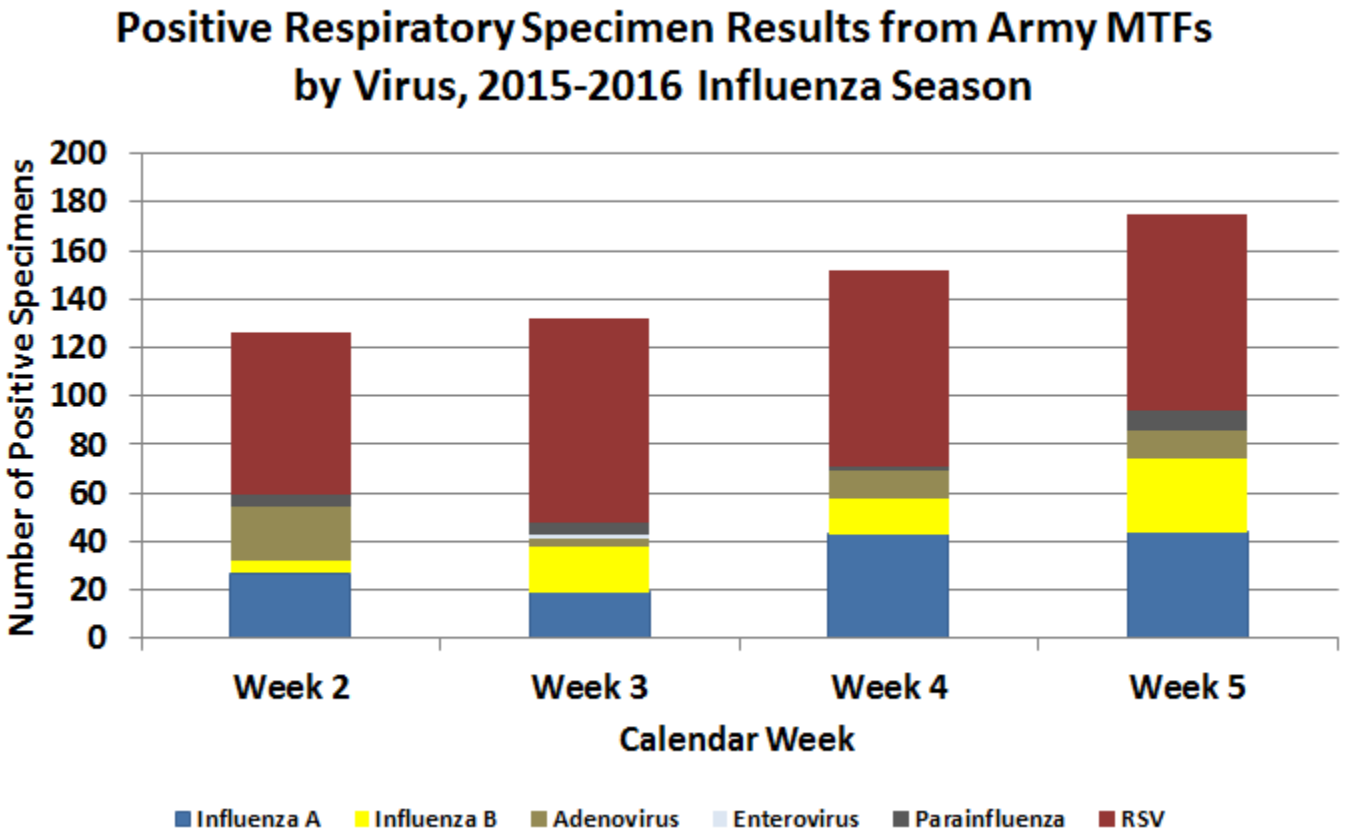


Note: *Reportable influenza cases are defined as only cases that have been hospitalized and are under the age of 65. See Armed Forces Reportable Medical Events Guidelines and Case Definitions for more information*

Data as of 10 February 2016.


Proportion of Positive Influenza A Specimens for U.S. Army 2015-2016
Total Tested (2015-16)
Average Tested (2012-15)
% Influenza A Positive
Total Number of Patients Tested
Percent Positive
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
Week


Positive Respiratory Specimen Results from Army MTFs by Virus, 2015-2016 Influenza Season
Number of Positive Specimens
200
180
160
140
120
100
80
60
40
20
0
Week 2
Week 3
Week 4
Week 5
Calendar Week
Influenza A
Influenza B
Adenovirus
Enterovirus
Parainfluenza
RSV

Number of Positive Influenza A Specimens by Duty Status and Region																
	Week 50		Week 51		Week 52		Week 1		Week 2		Week 3		Week 4		Week 5	
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
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RHC-E	0	0	0	1	0	1	0	0	1	1	2	0	2	4	1	5
RHC-P	0	0	1	2	0	1	1	3	1	6	0	8	3	10	1	5
CENTCOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0