

DON Influenza SITREP

2015-2016 Influenza Season
Week 45 (8 November — 14 November 2015)

Summary

Laboratory influenza activity below baseline and pharmacy activity above baseline but within one standard deviation. Four of the seven laboratory identified cases this week were among active duty personnel at two locations; overall impact for active duty personnel remains minimal and vaccination continues to increase week to week.

Influenza Activity and Surveillance

Laboratory:

Seven laboratory positive influenza cases were identified during Week 45, below baseline. [More](#)

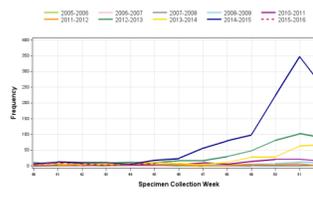
Antivirals (AVs):

36 AV medications were dispensed in Week 45, within one standard deviation of baseline. [More](#)

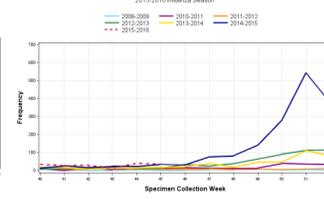
Influenza-Like Illness (ILI):

Overall, 3.5% of outpatient medical encounters were due to ILI, slightly above baseline. [More](#)

DON Laboratory Positive Influenza Cases: 2005-2006 to 2015-2016*
*Updated: Week 45 (November 8 - November 14, 2015)



DON Influenza-Specific Antiviral Prescriptions: 2008-2009 to 2015-2016*
*Updated: Week 45 (November 8 - November 14, 2015)



Severity Indicators

Inpatient:

This week, zero inpatient laboratory positive cases and two inpatient antiviral prescriptions were identified. There were no inpatient cases reported to DRSi. [More](#)

Coinfections:

The cumulative proportion of laboratory-positive cases with a bacterial coinfection remains below baseline; zero new coinfections were identified this week. [More](#)

Vaccination Rates

Active duty only

Navy: 64.4%

Marine Corps: 44.4%

US Fleet Forces: 72.1%

[View Table](#)

Source: MRRS, current as of 16 Nov 2015.

Select Populations

Active Duty & Recruits:

In Week 45, four laboratory positive cases and 17 AV prescriptions dispensed were among active duty personnel. There was one AV prescription dispensed to recruits. [More](#)

NHRC reports febrile respiratory illness (FRI) rates were at or below expected value during Week 44 at MCRD San Diego, MCRD Parris Island, and NRTC Great Lakes. [More](#)

Children:

The rate of influenza positive laboratory cases and influenza specific AV prescriptions in children remains low. [More](#)

Contact Information: [Email](#) ~ On the Web: <http://go.usa.gov/DtUC>



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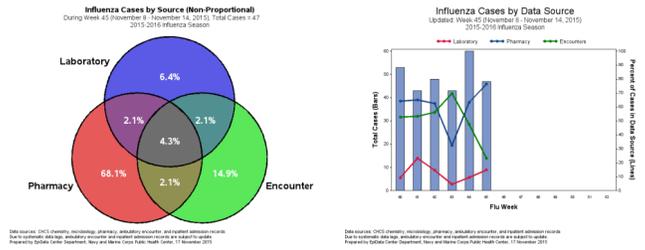
Report Number: NMCPHC-EDC-TR-588-2015

Influenza Activity and Surveillance

Case Identification

The overall burden of influenza in the DON is estimated by combining three major sources of data: certified laboratory results, antiviral pharmacy transactions, and medical encounters with influenza-specific diagnoses.

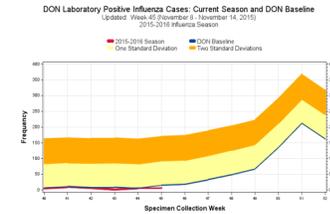
- This week, there were 47 DON cases identified in one or more data sources; pharmacy captured the highest proportion of cases (76.6%). Two of this week's cases were identified in all three sources.
- Since Week 40, there have been 297 DON cases identified in at least one of the three data sources.



Laboratory

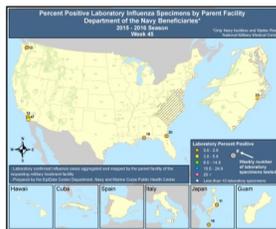
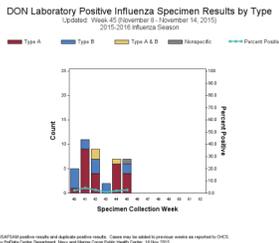
Case Frequencies

- Seven laboratory positive influenza cases were identified during Week 45 (four type A, two type B, one nonspecific), below baseline estimates.
 - Two cases were identified at NH Lemoore and two at NMC San Diego, both active duty.
- Since Week 40, 37 laboratory positive cases were identified among DON beneficiaries. Top facilities thus far: NHC Hawaii (7), NH Camp Lejeune (4), NH Lemoore (4) and NMC San Diego (4).



Specimen Positivity

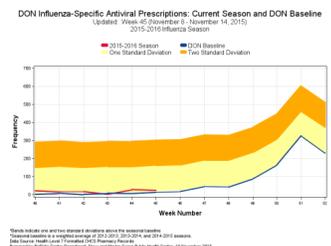
- 2.7% of all influenza specimens tested during Week 45 were positive, lower than last season (6.1%).
- When grouped by parent facility, eight (28.6%) locations tested more than ten specimens; only one of these facilities testing more than ten specimens reported positive results (NMC San Diego).



Test Types among Positive Influenza Specimens, n (%)				
	Rapid	Culture	PCR	Total
Week 43	2 (100.0)	0 (0.0)	0 (0.0)	2
Week 44	7 (85.7)	1 (14.3)	0 (0.0)	7
Week 45	6 (85.7)	0 (0.0)	1 (14.3)	7
Season	29 (70.7)	8 (19.5)	4 (9.8)	41

Antivirals

- 36 antiviral prescriptions were dispensed during week 45, above baseline but within one standard deviation.
 - Most common facilities this week: NMC San Diego (17), NH Pensacola (4).
 - Since Week 40, the majority (97.8%) of prescriptions were for Oseltamivir.



Antiviral Medications Dispensed to DON Beneficiaries, n (%)					
	Amantadine	Oseltamivir	Rimantadine	Zanamivir	Total
Week 45	1 (2.8)	35 (97.2)	0 (0.0)	0 (0.0)	36
Season	4 (2.2)	178 (97.8)	0 (0.0)	0 (0.0)	182

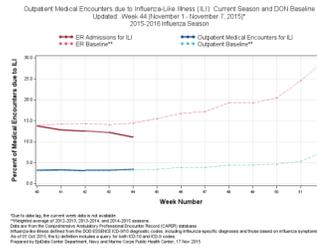
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Syndromic Surveillance

Influenza-Like Illness

- The percent of medical encounters that included an ILI diagnosis during Week 44 (lagged due to data availability):
 - 3.5% of outpatient (slightly above baseline)
 - 11.2% of ER (below baseline).
- When grouped by parent facility, 17 DON facilities (60.7%) experienced an increase in the proportion of outpatient ILI visits during Week 44; six facilities experienced an increase above 25%.



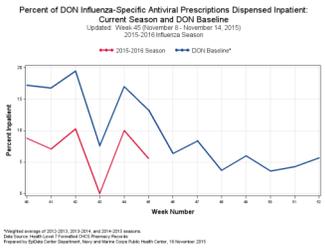
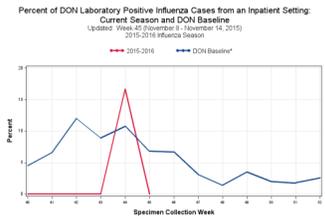
Severity Indicators

Inpatient Laboratory

- None of the 30 specimens tested for influenza in the inpatient setting were positive this week.

Inpatient Pharmacy

- Two (5.6%) AV prescriptions during Week 45 were in the inpatient setting (below baseline).
 - This week's inpatient cases were dispensed amantadine and oseltamivir; they include a spouse and sponsor both over the age of 45 years at WRNMMC and 88th Med Grp-Wright Patterson.



Influenza-Associated Hospitalization Reports

- There were no influenza-associated hospitalizations reported to DRSi this week; only one has been reported since Week 40.

Coinfections

- The percent of cases with bacterial coinfections this season (2.7%) remains below baseline (3.9%).
- There were no new coinfections identified during week 45.

Cumulative Proportion Bacterial Coinfections by Source and Laboratory Positive Cases with a Bacterial Coinfection (%), Week 45				
	Coinfections by Respiratory Source			Lab Cases with Bacterial Coinfection
	Upper Respiratory	Lower Respiratory	Non-Respiratory	
Current Season	0.0	100.0	0.0	2.7
Cumulative Baseline	0.0	23.1	76.9	3.9

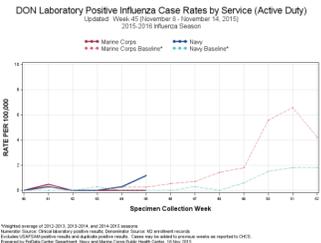
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Select Populations

Active Duty

- Four laboratory positive influenza cases were identified in active duty Navy service members during Week 45 at NH Lemoore (both Type B) and NMC San Diego (both Type A). Both were in outpatient settings.
 - One case received an inactive influenza vaccine (IIV) more than 14 days prior to infection; the other three had no record of vaccination.
- 17 active duty service members (17 Navy) were dispensed Oseltamivir during Week 45; 12 of these were at NMC San Diego.



Status	Immunity Status	Vaccine Type		Total	Percent
		IIV	None		
Active Duty	Vaccinated; immune	2	-	2	28.6%
	Vaccinated; not immune	1	-	1	14.3%
	No vaccination record	-	4	4	57.1%
Total		3	4	7	-

LAIIV-live-attenuated influenza vaccine (intranasal), IIV-inactive influenza vaccine (injection)
Vaccinated; immune: Vaccinated more than 14 days prior to infection.
Vaccinated; not immune: Vaccinated less than 14 days prior to infection or after infection.
Prepared by EpiData Center Department, Navy and Marine Corps Public Health Center, 10 Nov 2015

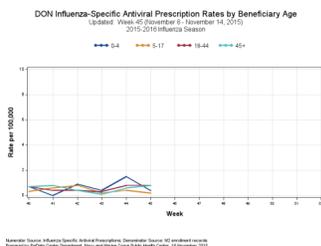
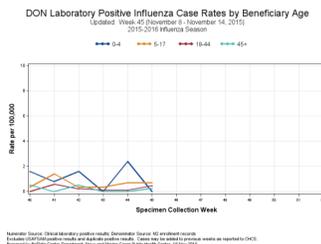
Recruits

- There were no laboratory positive influenza cases among recruits in Week 45.
- One AV was dispensed to a recruit during Week 45 at NMC San Diego.

Case Type	Active Duty		Recruits		Total
	Navy	Marine Corps	Navy	Marine Corps	
Laboratory Positive	4	0	0	0	4
AV Prescriptions	17	0	1	0	18

Children

- The rate of laboratory positive influenza cases remains low for all age groups.
- Two laboratory positive influenza cases were identified among children during Week 45, below baseline estimates for children.
 - Both children were between the ages 5-17 in outpatient settings at NHC Hawaii and NH Guam.
- The rate of AV prescriptions remains low for all age groups.
- There were four AVs dispensed to children during Week 45, equal to baseline estimates for children.
 - This week's cases were all dispensed oseltamivir in outpatient settings with two children ages 0-4 and two ages 5-17 at four different facilities (17th Med Grp-Goodfellow, NH Guam, NH Pensacola, NMC Pensacola).



In the News

- High numbers of severe acute respiratory infections associated with influenza A (H1N1)pdm09 virus and RSV are being reported in Cuba. [More](#)
- Global flu activity remains low, with some increased activity in Cuba, Bahrain, Qatar, India, Laos and Thailand. [More](#)
- Nigeria reports 4 H5N1 outbreaks and South Korea reports 12 H5N8 events. [More](#)

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