

DON Influenza SITREP

2015-2016 Influenza Season
Week 47 (22 November — 28 November 2015)

Summary

Laboratory and pharmacy influenza activity are below baseline estimates. Two of the four laboratory identified cases this week were among active duty personnel at two different locations; overall impact for active duty personnel remains minimal and vaccination continues to increase week to week.

Influenza Activity and Surveillance

Laboratory:

Four laboratory positive influenza cases were identified during Week 47, below baseline. [More](#)

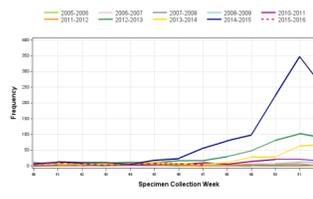
Antivirals (AVs):

35 AV medications were dispensed in Week 47, below baseline. [More](#)

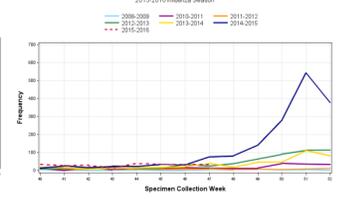
Influenza-Like Illness (ILI):

Overall, 3.8% of outpatient medical encounters were due to ILI, below baseline. [More](#)

DON Laboratory Positive Influenza Cases: 2005-2006 to 2015-2016*
Updated: Week 47 (November 22 - November 28, 2015)



DON Influenza-Specific Antiviral Prescriptions: 2008-2009 to 2015-2016*
Updated: Week 47 (November 22 - November 28, 2015)



Severity Indicators

Inpatient:

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

Coinfections:

Only two bacterial coinfections have been identified among laboratory positive cases this season; one new coinfection was identified this week. [More](#)

Vaccination Rates

Active duty only

Navy: 74.6%

Marine Corps: 58.0%

US Fleet Forces: 81.0%

[View Table](#)

Source: MRRS, current as of 30 Nov 2015.

Select Populations

Active Duty & Recruits:

In Week 47, two laboratory positive cases and eight AV prescriptions dispensed were among active duty personnel. There were zero AV prescriptions dispensed to recruits. [More](#)

NHRC reports febrile respiratory illness (FRI) rates were at or below expected value during Week 46 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>

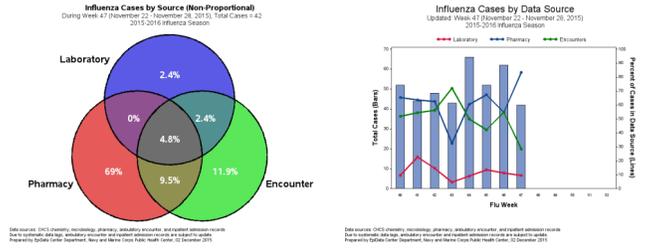


Influenza Activity and Surveillance

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.

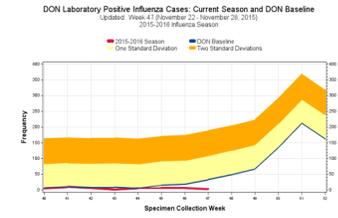
- This week, there were 42 DON cases identified in one or more data sources; pharmacy captured the highest proportion of cases (83.3%). Two of this week's cases were identified in all three sources.
- Since Week 40, there have been 409 DON cases identified in at least one of the three data sources.



Laboratory

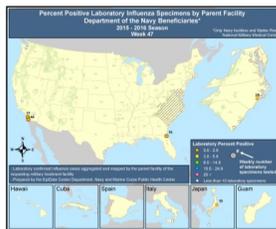
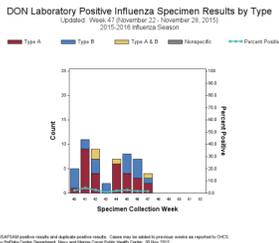
Case Frequencies

- Four laboratory positive influenza cases were identified during Week 47 (two type A, one type B, one type A&B), below baseline estimates.
 - These cases were identified at NMC San Diego, AMC Tripler, 59th Medical Wing Lackland, and NHC Quantico.
- Since Week 40, 48 laboratory positive cases were identified among DON beneficiaries. Top facilities thus far: NH Lemoore (7), NHC Hawaii (7), NH Camp Lejeune (6), and NMC San Diego (5).



Specimen Positivity

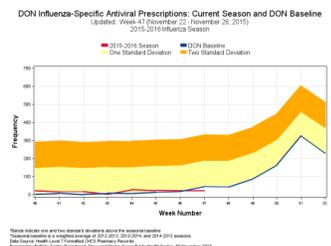
- 1.6% of all influenza specimens tested during Week 47 were positive, lower than last season (14.4%).
- When grouped by parent facility, five (17.9%) locations tested more than ten specimens; one of these facilities testing more than ten specimens reported positive results (NMC San Diego).



Test Types among Positive Influenza Specimens, n (%)				
	Rapid	Culture	PCR	Total
Week 45	6 (75.0)	1 (12.5)	1 (12.5)	8
Week 46	6 (85.7)	1 (14.3)	0 (0.0)	7
Week 47	2 (50.0)	1 (25.0)	1 (25.0)	4
Season	37 (69.8)	11 (20.8)	5 (9.4)	53

Antivirals

- 35 antiviral prescriptions were dispensed during Week 47, below baseline estimates.
 - Most common facilities this week: NMC San Diego (8), AHC McDonald-Eustis (3), NH Camp Lejeune (3), and NH Twentynine Palms (3).
 - Since Week 40, the majority (97.6%) of prescriptions were for Oseltamivir.



Antiviral Medications Dispensed to DON Beneficiaries, n (%)					
	Amantadine	Oseltamivir	Rimantadine	Zanamivir	Total
Week 47	0 (0.0)	35 (100.0)	0 (0.0)	0 (0.0)	35
Season	6 (2.4)	244 (97.6)	0 (0.0)	0 (0.0)	250

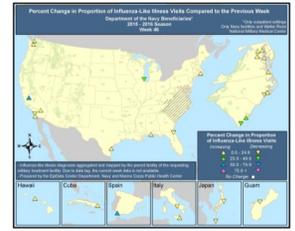
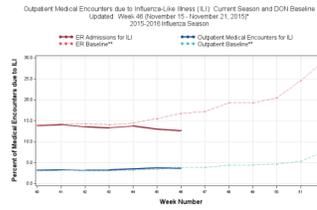
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Syndromic Surveillance

Influenza-Like Illness

- The percent of medical encounters that included an ILI diagnosis during Week 46 (lagged due to data availability):
 - 3.8% of outpatient (below baseline)
 - 12.7% of ER (below baseline).
- When grouped by parent facility, 19 DON facilities (67.9%) experienced an increase in the proportion of outpatient ILI visits during Week 46; three of these facilities experienced an increase above 25%.



Severity Indicators

Inpatient Laboratory

- None of the 36 specimens tested for influenza in the inpatient setting were positive this week.

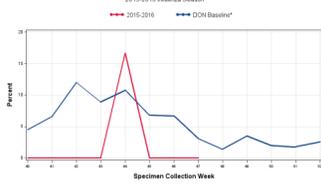
Inpatient Pharmacy

- No AV prescriptions during Week 47 were identified in an inpatient setting.

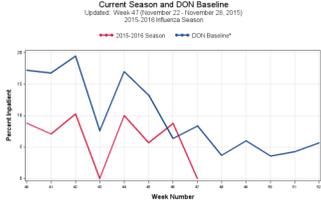
Influenza-Associated Hospitalization Reports

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

Percent of DON Laboratory Positive Influenza Cases from an Inpatient Setting: Current Season and DON Baseline. Updated: Week 47 (November 28, 2016). 2015-2016 Influenza Season.



Percent of DON Influenza-Specific Antiviral Prescriptions Dispensed Inpatient: Current Season and DON Baseline. Updated: Week 47 (November 28, 2016). 2015-2016 Influenza Season.



Coinfections

- The percent of cases with bacterial coinfections this season (4.2%) is above baseline (2.4%).
- There was one new coinfection identified during Week 47.
 - This week's case is a non-respiratory infection identified at NH Camp Lejeune. [View Details](#)

Cumulative Proportion Bacterial Coinfections by Source and Laboratory Positive Cases with a Bacterial Coinfection (%), Week 47				
	Coinfections by Respiratory Source			Lab Cases with Bacterial Coinfection
	Upper Respiratory	Lower Respiratory	Non-Respiratory	
Current Season	0.0	50.0	50.0	4.2
Cumulative Baseline	0.0	20.0	80.0	2.4

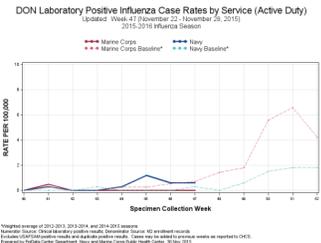
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Select Populations

Active Duty

- Two laboratory positive influenza cases were identified in active duty Navy service members during Week 47 at 59th Medical Wing Lackland (Type A&B) and NMC San Diego (Type A). Both were in outpatient settings.
 - One case received a live attenuated influenza vaccine (LAIV) more than 14 days prior to infection; the other had no record of vaccination.
- Eight active duty service members (seven Navy, one Marine) were dispensed Oseltamivir during Week 47 at seven different facilities.



Service/Component	Total Population	Number Vaccinated*	Number Exempt	Percent Vaccinated**
Marine Corps Active Duty	156,600	80,472	2,108	52.1%
Marine Corps Reserves	35,452	23,107	585	66.3%
Navy Active Duty	323,370	227,145	3,896	71.1%
Navy Reserves	50,970	33,242	659	66.1%
Total	566,392	363,966	7,248	65.1%

*Includes both injection and intranasal influenza vaccines.
**Percent vaccinated = proportion of service members vaccinated out of total population excluding exemptions. Immunization status as of 23 November 2015.
Prepared by EpiData Center Department, Navy and Marine Corps Public Health Center, 23 November 2015.

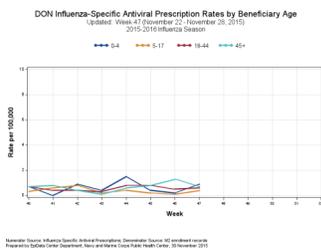
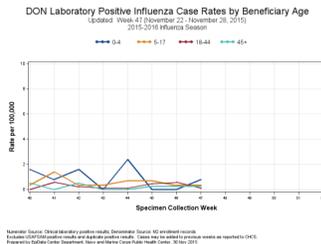
Recruits

- There were no laboratory positive influenza cases among recruits in Week 47.
- No AVs were dispensed to recruits during Week 47.

Case Type	Active Duty		Recruits		Total
	Navy	Marine Corps	Navy	Marine Corps	
Laboratory Positive	10	1	0	0	11
AV Prescriptions	55	16	1	0	72

Children

- The rate of laboratory positive influenza cases was highest in children ages 0-4 (0.8 per 100,000), followed by children ages 5-17 (0.35 per 100,000).
- Two laboratory positive influenza case (one Type A, one Type B) were identified among children during Week 47, below baseline estimates for children.
 - This week's cases were between the ages of 0-4 and 5-17 in an outpatient setting at NHC Quantico and AMC Tripler, respectively.
- The rate of AV prescriptions was highest among children 0-4 years (0.9 per 100,000).
- There were eight AVs dispensed to children during Week 47, below baseline estimates for children.
 - This week's cases were dispensed Oseltamivir in outpatient settings with four children between the ages of 0 and 4 and four between 5 and 17 at six different facilities.



In the News

- For the second week in a row, flu activity in the United States rose slightly, with influenza A H3N2 as still the dominant strain [More](#)
- Overall flu activity has remained low, with hot spots in only a few areas, such as some Middle Eastern countries, Cuba, India, Laos, and Thailand [More](#)

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