

DON Influenza SITREP

2015-2016 Influenza Season
Week 46 (15 November — 21 November 2015)

Summary

Laboratory influenza activity is below baseline and pharmacy activity is above baseline but within one standard deviation. Two of the six 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:

Six laboratory positive influenza cases were identified during Week 46, below baseline. [More](#)

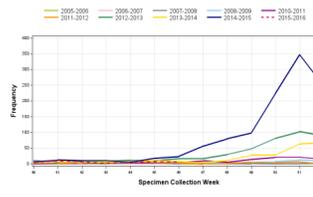
Antivirals (AVs):

31 AV medications were dispensed in Week 46, within one standard deviation of baseline. [More](#)

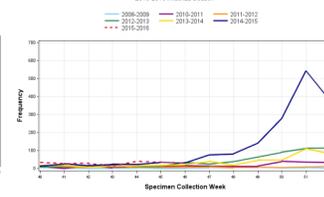
Influenza-Like Illness (ILI):

Overall, 3.9% of outpatient medical encounters were due to ILI, above baseline. [More](#)

DON Laboratory Positive Influenza Cases: 2005-2006 to 2015-2016*
Updated: Week 46 (November 15 - November 21, 2015)



DON Influenza-Specific Antiviral Prescriptions: 2008-2009 to 2015-2016*
Updated: Week 46 (November 15 - November 21, 2015)



Severity Indicators

Inpatient:

This week, zero inpatient laboratory positive cases and three 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: 66.3%

Marine Corps: 52.1%

US Fleet Forces: 77.3%

[View Table](#)

Source: MRRS, current as of 23 Nov 2015.

Select Populations

Active Duty & Recruits:

In Week 46, two laboratory positive cases and six 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 45 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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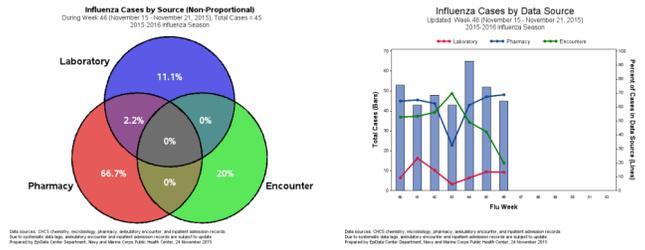
Report Number: NMCPHC-EDC-TR-593-2015

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.

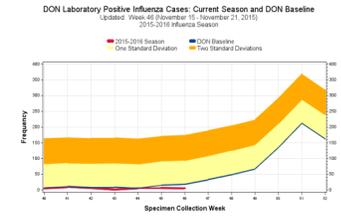
- This week, there were 45 DON cases identified in one or more data sources; pharmacy captured the highest proportion of cases (68.9%). None of this week's cases were identified in all three sources.
- Since Week 40, there have been 349 DON cases identified in at least one of the three data sources.



Laboratory

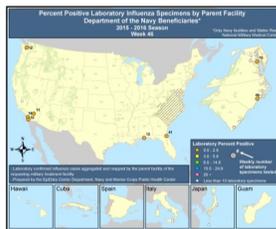
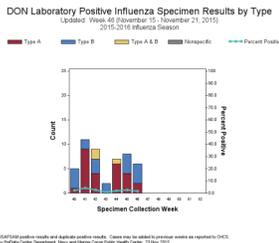
Case Frequencies

- Six laboratory positive influenza cases were identified during Week 46 (two type A, four type B), below baseline estimates.
 - Three cases were identified at NH Lemoore, one active duty.
- 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 (5), and NMC San Diego (4).



Specimen Positivity

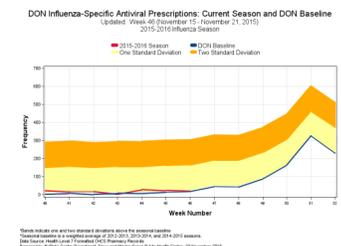
- 1.7% of all influenza specimens tested during Week 46 were positive, lower than last season (7.9%).
- When grouped by parent facility, eight (28.6%) locations tested more than ten specimens; two of these facilities testing more than ten specimens reported positive results (NH Camp Lejeune, NH Jacksonville).



Test Types among Positive Influenza Specimens, n (%)				
	Rapid	Culture	PCR	Total
Week 44	6 (85.7)	1 (14.3)	0 (0.0)	7
Week 45	6 (75.0)	1 (12.5)	1 (12.5)	8
Week 46	5 (83.3)	0 (0.0)	1 (16.7)	6
Season	34 (70.8)	9 (18.8)	5 (10.4)	48

Antivirals

- 31 antiviral prescriptions were dispensed during week 46, above baseline but within one standard deviation.
 - Most common facilities this week: NMC San Diego (8), NH Camp Lejeune (4).
 - Since Week 40, the majority (97.2%) of prescriptions were for Oseltamivir.



Antiviral Medications Dispensed to DON Beneficiaries, n (%)					
	Amantadine	Oseltamivir	Rimantadine	Zanamivir	Total
Week 46	2 (6.5)	29 (97.2)	0 (0.0)	0 (0.0)	31
Season	6 (2.8)	206 (97.2)	0 (0.0)	0 (0.0)	212

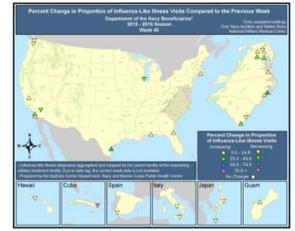
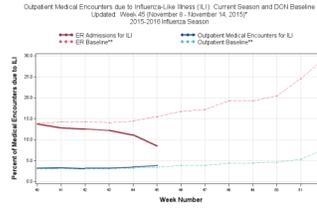
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Syndromic Surveillance

Influenza-Like Illness

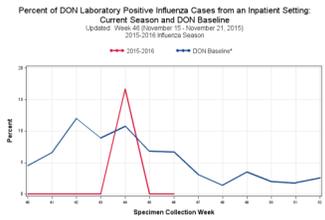
- The percent of medical encounters that included an ILI diagnosis during Week 45 (lagged due to data availability):
 - 3.9% of outpatient (above baseline)
 - 8.6% of ER (below baseline).
- When grouped by parent facility, 15 DON facilities (53.6%) experienced an increase in the proportion of outpatient ILI visits during Week 45; six facilities experienced an increase above 25%.



Severity Indicators

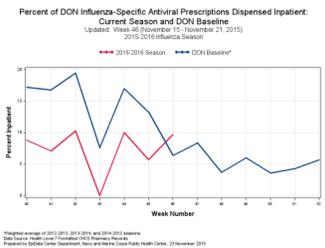
Inpatient Laboratory

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



Inpatient Pharmacy

- Three (9.7%) AV prescriptions during Week 46 were in the inpatient setting (above baseline).
 - This week's inpatient cases were dispensed amantadine (2) and oseltamivir (1); they include two female spouses over the age of 45 years at NMC San Diego and WRNMMC, and a male between 18 and 44 years of age at NMC Portsmouth.



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 (2.3%) remains below baseline (3.4%).
- There were no new coinfections identified during Week 46.

Cumulative Proportion Bacterial Coinfections by Source and Laboratory Positive Cases with a Bacterial Coinfection (%), Week 46				
	Coinfections by Respiratory Source			Lab Cases with Bacterial Coinfection
	Upper Respiratory	Lower Respiratory	Non-Respiratory	
Current Season	0.0	100.0	0.0	2.3
Cumulative Baseline	0.0	20.0	80.0	3.4

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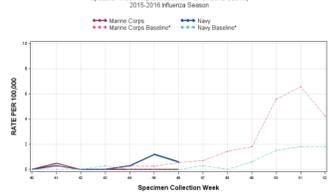


Select Populations

Active Duty

- Two laboratory positive influenza cases were identified in active duty Navy service members during Week 46 at NH Lemoore (Type B) and NH Jacksonville (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.
- Six active duty service members (four Navy, two Marines) were dispensed Oseltamivir during Week 46 at six different facilities.

DON Laboratory Positive Influenza Case Rates by Service (Active Duty)
Updated: Week 46 (November 15 - November 21, 2015)
2015-2016 Influenza Season



*Higher average of 2011-2013, 2013-2014, and 2014-2015 seasons.
Navy and Marine Corps Baseline rates are based on 2011-2013 and 2014-2015 seasons.
Prepared by EpiData Center Department, Navy and Marine Corps Public Health Center, 23 Nov 2015

Status	Immunity Status	Vaccine Type			Total	Percent
		LAIV	IV	None		
Active Duty	Vaccinated; immune	-	2	-	2	22.2%
	Vaccinated; not immune	2	1	-	3	33.3%
	No vaccination record	-	-	4	4	44.4%
Total		2	3	4	9	-

LAIV=live-attenuated influenza vaccine (intranasal), IV=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, 24 Nov 2015

Recruits

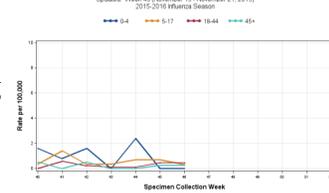
- There were no laboratory positive influenza cases among recruits in Week 46.
- No AVs were dispensed to recruits during Week 46.

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

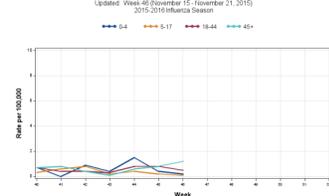
- The rate of laboratory positive influenza cases remains low for all age groups.
- One laboratory positive influenza case (Type B) was identified among children during Week 46, below baseline estimates for children.
 - This week's case was between the ages of 5 and 17 in an outpatient setting at NH Lemoore.
- The rate of AV prescriptions remains low for all age groups.
- There were two AVs dispensed to children during Week 46, below baseline estimates for children.
 - This week's cases were dispensed Oseltamivir in outpatient settings with one child between the ages of 0 and 4 and one between 5 and 17 at NH Camp Pendleton and NH Pensacola, respectively.

DON Laboratory Positive Influenza Case Rates by Beneficiary Age
Updated: Week 46 (November 15 - November 21, 2015)
2015-2016 Influenza Season



*Higher average of 2011-2013, 2013-2014, and 2014-2015 seasons.
Navy and Marine Corps Baseline rates are based on 2011-2013 and 2014-2015 seasons.
Prepared by EpiData Center Department, Navy and Marine Corps Public Health Center, 23 Nov 2015

DON Influenza-Specific Antiviral Prescription Rates by Beneficiary Age
Updated: Week 46 (November 15 - November 21, 2015)
2015-2016 Influenza Season



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In the News

- Overall seasonal influenza activity increased slightly in the US ahead of the week ending November 14, but remains low overall. [More](#)
- A new study of influenza vaccine effectiveness (VE) in the US between 2010 and 2013 found that influenza VE was 58% in children 6m-5y of age, 45% in children 6-17y, 36% in adults 18-50y and 34% in adults >50y. [More](#)

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