



Influenza Situation Report: 2015-2016 Season

Department of the Navy

Week 15 (10 April to 16 April 2016)

Overall Summary

The number of laboratory positive cases and antiviral prescriptions remain above seasonal baselines, but appear to have peaked and continue to decrease. The rates of influenza cases among children remain above baseline.

Key Findings

Influenza Activity and Surveillance

Laboratory

70 laboratory positive influenza cases were identified during Week 15, slightly above baseline.

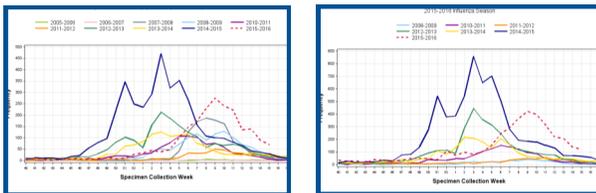
[Details](#)

Antivirals (AVs)

121 AV medications were dispensed in Week 15, slightly above baseline. [Details](#)

Influenza-Like Illness (ILI)

Overall, 3.7% of outpatient medical encounters were due to ILI, comparable to baseline. [Details](#)



Active Duty Vaccination Rates

Navy: 95.4%
Marine Corps: 96.7%
US Fleet Forces: 99.3%

[View Table](#)

Data source: MRRS, current as of 18 Apr 2016.

Severity Indicators

Inpatient

This week, there were four inpatient laboratory positive cases and seven inpatient antiviral prescriptions. Two inpatient influenza case reports were identified in DRSi. [Details](#)

Coinfections

There were no bacterial coinfections identified among laboratory positive cases during Week 15. [Details](#)

Select Populations

Active Duty and Recruits

In Week 15, there were eight laboratory positive cases and 18 AV prescriptions dispensed to active duty personnel. Among recruits, there were no laboratory positive cases and no AV prescription. [Details](#)

NHRC surveillance reports febrile respiratory illness rates were at or below expected values at MCRD San Diego, MCRD Parris Island and NRTC Great Lakes for Week 13. [Details](#)

Children

Influenza positive laboratory cases and AV prescriptions among children were above baseline. [Details](#)

Prepared by the EpiData Center ([email](#); [web](#))

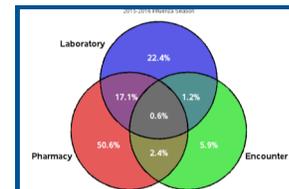


Influenza Activity and Surveillance

Overall Burden

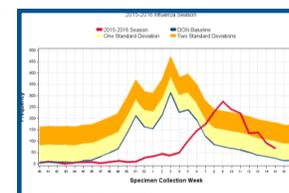
The estimated burden of influenza across the DON combines three major sources of data: certified laboratory results, antiviral pharmacy transactions, and medical encounters with influenza-specific diagnoses.

- During Week 15, there were 170 DON cases identified in one or more data sources; pharmacy captured the highest proportion of cases (70.6%). One case was identified in all three sources.
- Since Week 40, there have been 5,941 DON cases identified in at least one of the three data sources.



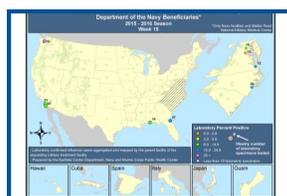
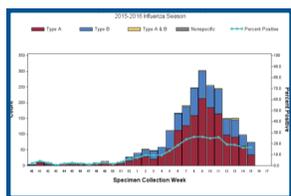
Laboratory Cases

- 70 laboratory positive influenza cases were identified during Week 15 (32 type A, 36 type B, one type A & B); slightly above baseline.
 - Top three facilities this week: NH Camp Lejeune (13), Ft Belvoir Community Hosp-FBC (6), NMC San Diego (5).
- Since Week 40, 2,109 laboratory positive cases were identified among DON beneficiaries. Top three facilities thus far: NMC San Diego (434), NH Jacksonville (210), NH Camp Pendleton (168).



Specimen Positivity

- 16.7% of all influenza specimens tested during Week 15 were positive, exceeding the percentage for the same time last season (8.4%).
- When grouped by parent facility, 10 locations (35.7%) tested more than ten specimens. The facilities with the highest specimen positivity were NH Bremerton (42.9%) and NHC Quantico (33.3%).

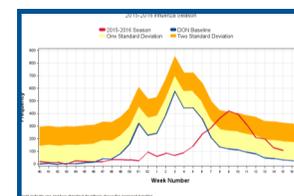


Test Types among Positive Influenza Specimens, n (%)				
	Rapid	Culture	PCR	Total
Week 13	96(63.6)	20(13.2)	35(23.2)	151
Week 14	65(65.7)	10(10.1)	24(24.2)	99
Week 15	45(60.6)	11(14.7)	19(25.3)	75
Season	1,345(58.0)	246(10.6)	729(31.4)	2,320

Antiviral Prescriptions

- 121 antiviral prescriptions (119 oseltamivir, 2 amantadine) were dispensed during Week 15. AV prescriptions remain above baseline, with a continuing declining trend.
- Top three facilities this week: NMC San Diego (18), NH Camp Lejeune (15), AMC Tripler-Shafter (8).
- Since Week 40, the majority (99.2%) of prescriptions were for oseltamivir.

Antiviral Medications Dispensed to DON Beneficiaries, n (%)					
	Amantadine	Oseltamivir	Rimantadine	Zanamivir	Total
Week 15	2(1.7)	119(98.3)	0 (0.0)	0 (0.0)	121
Season	30(0.8)	3,743 (99.2)	0 (0.0)	0 (0.0)	3,773



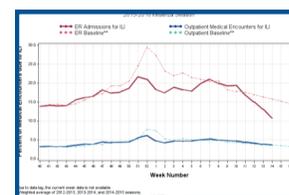
[< Back to Key Findings](#)



Syndromic Surveillance

Influenza-Like Illness (ILI)

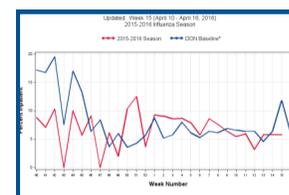
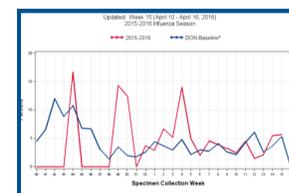
- The percent of medical encounters that included an ILI diagnosis during Week 14 (lagged due to data availability):
 - 3.7% of outpatient encounters (comparable to baseline)
 - 10.8% of ER admissions (below baseline)
- When grouped by parent facility, 10 DON facilities (35.7%) experienced an increase in the proportion of outpatient ILI visits during Week 14. Three experienced an increase above 25%; NH Rota (59.7%) experienced the highest increase.



Severity Indicators

Inpatient Laboratory

- Four influenza positive laboratory cases (5.7% of all laboratory cases) were identified in the inpatient setting during Week 15.
- This week's cases were two retirees and one family member (1 Navy and 2 Marine Corps) ages 45+ and one Navy family member, 5-7 years of age. Cases were identified at NMC San Diego (2), NH Camp Pendleton (1), and AMC Brooke-SAMMC-Sam Houston (1). Two cases were type A positive and two cases were type B positive.



Inpatient Pharmacy

- Seven influenza AVs (5.8% of all influenza AVs) were prescribed in the inpatient setting during Week 15, below baseline (11.8%).
- NMC San Diego and NMC Portsmouth both dispensed two AVs in the inpatient setting, and three other facilities dispensed one AV each. This week's AVs were dispensed to spouses (6), a child, and a non-active duty sponsor.

Influenza-Associated Hospitalization Reports

- Four influenza cases were reported to DRSi during Week 15; two cases were in an inpatient setting.

Bacterial Coinfections

- There were no coinfections identified during Week 15.
- Overall coinfection case counts remain above baseline.

Proportion Bacterial Coinfections by Respiratory Source and Percent of Laboratory Positive Cases with a Bacterial Coinfections since Week 40, 2015-2016 Season				
	Coinfections by Respiratory Source, n (%)			Lab Cases with Bacterial Coinfection (%)
	Upper Respiratory	Lower Respiratory	Non-Respiratory	
Current Season (n=90)	34 (37.8)	12 (13.3)	44 (48.9)	4.3
Cumulative Baseline (n=100.5)	38 (37.8)	9.2 (9.1)	53.3 (53.1)	3.8

* Cumulative baseline calculated as a weighted average over three years and may not represent whole numbers.

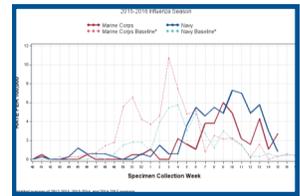
[< Back to Key Findings](#)



Select Populations

Active Duty

- Eight laboratory positive influenza cases were identified among active duty Navy (3) and Marine Corps (5) service members during Week 15 (7 type A and 1 type B). Top facilities this week: NHC Quantico (3) and four other facilities with one case each.
- 18 active duty service members (10 Navy, 8 Marines) were dispensed AVs (all oseltamivir, 1 amantadine) during Week 15.



Status	Immunity Status	Vaccine type				Total	Percent
		LAIV	IV	LAIV & IV	None		
Active Duty	Vaccinated, immune	74	139	5	-	218	80.1%
	Vaccinated, not immune	7	11	-	-	18	6.6%
	No vaccination record	-	-	-	36	36	13.2%
Total		81	150	5	36	272	-
Recruit	Vaccinated, immune	22	23	-	-	45	63.4%
	Vaccinated, not immune	18	8	-	-	26	36.6%
		40	31	-	-	71	-

LAIV=live-attenuated influenza vaccine (intranasal); IV=inactive influenza vaccine (injection)
Vaccinated, immune: Vaccinated more than 14 days prior to infection.

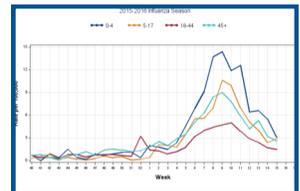
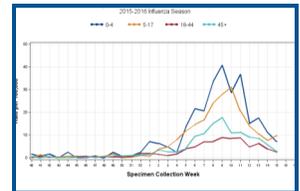
Recruits

- No laboratory positive influenza cases were identified among recruits during Week 15.
- No AVs were dispensed to recruits during Week 15.

Number of DON Active Duty and Recruit Cases since Week 40, 2015-2016 Season					
Case Type	Active Duty		Recruits		Total
	Navy	Marine Corps	Navy	Marine Corps	
Laboratory Positive	201	71	50	21	343
AV Prescriptions	474	168	9	91	742

Children

- The rate of laboratory positive influenza cases (per 100,000) among children was 11.2 for ages 0-4 years and 7.0 for ages 5-17.
- 34 laboratory positive influenza cases were identified among children during Week 15, less than one standard deviation above baseline.
 - There were 14 cases among children ages 0-4 and 20 among children ages 5-17.
- The rate of AV prescriptions (per 100,000) is highest among children 0-4 years (5.3) followed by children 5-17 years (2.3).
- There were 44 AVs dispensed to children during Week 15, four times baseline estimates.
 - This week's cases (42 oseltamivir, and 2 amantadine) include 14 children ages 0-4 years old and 30 children ages 5-17 years old. NH Camp Lejeune (10) dispensed the most AVs. One AV was dispensed in the inpatient setting.



In the News

- Although influenza activity continues to decrease across the U.S., last week 10 pediatric deaths were attributed to influenza. [Details](#)
- The geographic spread of influenza in Puerto Rico and 18 states was reported as widespread. [Details](#)

[< Back to Key Findings](#)

