



Influenza Situation Report: 2016-2017 Season

Department of the Navy

Week 40 (2 October to 8 October 2016)

Overall Summary

Overall influenza activity is low; however, the counts of laboratory-positive cases and antiviral prescriptions dispensed are above seasonal baselines for the current week.

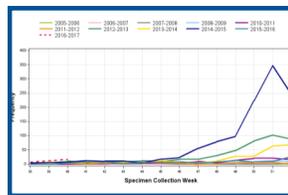
Key Findings

Influenza Activity and Surveillance

Laboratory

- Laboratory-positive influenza cases were slightly above baseline.
- 17 laboratory cases identified. [Details](#)

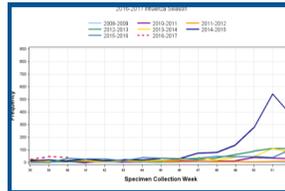
Lab Cases and Past Seasons



Antivirals (AVs)

- Dispensed AVs were slightly above baseline.
- 42 AVs dispensed. [Details](#)

AV Cases and Past Seasons



Influenza-Like Illness (ILI)

- ILI outpatient encounters were below baseline at 3.0% of outpatient medical encounters. [Details](#)

Severity Indicators

Inpatient

- No inpatient laboratory-positive cases identified.
- 4 inpatient AVs dispensed.
- No influenza cases reported to DRSi. [Details](#)

Coinfections

- No bacterial coinfections among laboratory-positive cases were identified. [Details](#)

Select Populations

Active Duty

- 4 laboratory-positive cases identified.
- 7 AVs dispensed. [Details](#)

Recruits

- No laboratory-positive case identified.
- No AVs dispensed. [Details](#)
- Febrile respiratory illness at or below expected values at all training centers. [NHRC Report](#)

Children

- Laboratory cases among children were above baseline. [Details](#)

Active Duty Vaccination Rates

Navy.....	27.2%
Marine Corps.....	11.1%
US Fleet Forces.....	25.3%

[View Table](#)

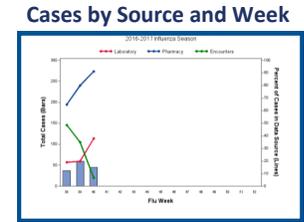
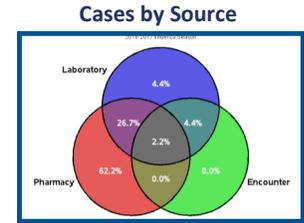
Data source: MRRS, current as of 11 Oct 2016.

Influenza Activity and Surveillance

Overall Burden*

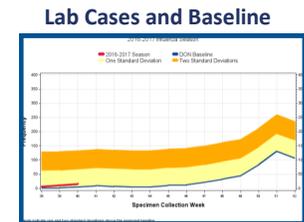
- The weekly burden of influenza in the DON was 45 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (91.1%). One case was identified in all three sources.
- 142 DON cases identified since Week 38.

*Note: 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.



Laboratory Cases

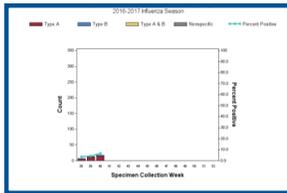
- Laboratory-positive cases were above baseline with 17 cases; the case count was higher than the count of the previous week.
- Influenza types: A (14), B (3), and A and B (0).
- Facilities with the greatest number of cases:
 - Current week: NH Guam-Agana (4), NH Camp Lejeune (3), AMC Tripler-Shafter (2), and NH Yokosuka (2).
 - Season: NH Camp Lejeune (7), NH Guam-Agana (5), and AMC Tripler-Shafter (3).



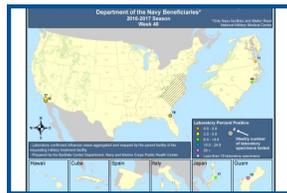
Specimen Positivity

- 6.5% of all influenza specimens tested; higher than the same time last season (2.2%).
- Facilities testing more than 10 specimens: 7 (25.0%).

Pos. Specimens and Type



% Pos. Specimens by MTF



Test Types among Positive Influenza Specimens, n (%)

	Rapid	Culture	PCR	Total
Week 38	5(71.4)	1 (14.3)	1 (14.3)	7
Week 39	11 (84.6)	1 (7.7)	1 (7.7)	13
Week 40	14 (82.4)	2 (11.8)	1 (5.9)	17
Season	30(81.1)	4(10.8)	3 (8.1)	37

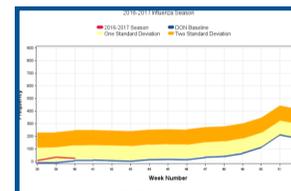
Antiviral Prescriptions

- AVs dispensed were above baseline; AVs decreased slightly from the prior week.
- 42 AVs (38 oseltamivir, 4 amantadine) were dispensed.
- Facilities dispensing most AVs this week: NH Camp Lejeune (7), NMC San Diego (5) and NH Guam-Agana (5).
- The majority (93.2%) of prescriptions for the season have been for oseltamivir.

Antiviral Medications Dispensed to DON Beneficiaries, n (%)

	Amantadine	Oseltamivir	Total
Week 40	4(9.5)	38 (90.5)	42
Season	9(6.8)	123 (93.2)	132

AV Cases and Baseline



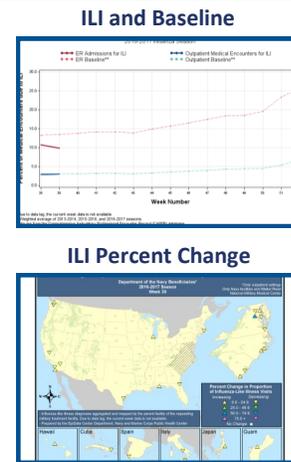
[< Back to Key Findings](#)

Syndromic Surveillance

Influenza-Like Illness (ILI) *

- The percentage of medical encounters that included an ILI diagnosis:
 - 3.0% of outpatient encounters (below baseline).
 - 10.0% of ER admissions (below baseline).
- 12 DON facilities (42.9%) reported an increase in the proportion of outpatient ILI visits from the prior week.
 - One facility had an increase above 25%.
 - NHC Quantico (65.9%) had the greatest increase in the percent of ILI visits.

*For Week 39, lagged due to data availability



Severity Indicators

Inpatient Laboratory

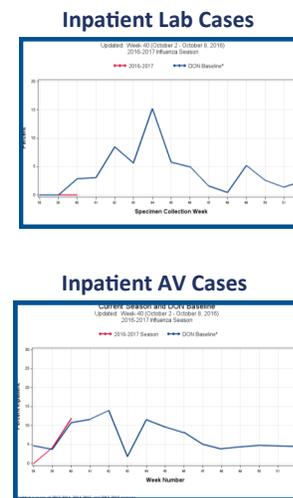
- No inpatient laboratory cases were identified.

Inpatient Pharmacy

- The percentage of inpatient AVs (11.9% of all influenza AVs) was above baseline (10.8%).
- AVs were most frequently dispensed at NMC San Diego (3), AMC Tripler-Shafter (1) and AMC Madigan-Lewis (1)
- AVs were dispensed to spouses (2), other sponsors (2), and an active duty service members (1).

Influenza-Associated Hospitalization Reports

- No influenza cases were reported to DRSi for influenza-associated hospitalizations.



Bacterial Coinfections

- No coinfections were identified during the week.
- No positive rapid strep tests identified among influenza cases.

Bacterial Coinfections by Specimen Source and as a Percent of Laboratory Cases, 2015-2016 Season

	Coinfections by Specimen Source, n (%)			Lab Cases with Bacterial Coinfection (%)
	Upper Respiratory	Lower Respiratory	Non-Respiratory	
Current Season (n=4)	4(0.0)	0 (0.0)	4(100.0)	2.8
Cumulative Baseline* (n=0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

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

Note: Table does not include Group A *Streptococcus* identified from rapid diagnostic tests.

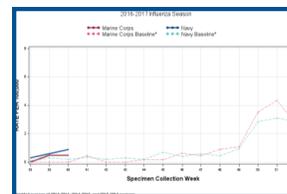
[< Back to Key Findings](#)

Select Populations

Active Duty

- 4 laboratory-positive influenza cases were identified among active duty service members (3 Navy, 1 Marine Corps); 3 cases Type A and 1 case Type B.
- Laboratory cases were identified at AMC Tripler-Shafter (1), NH Beaufort (1), NH Camp Lejeune (1), and NH Guam-Agana (1).
- 7 active duty service members (6 Navy, 1 Marine) were dispensed AVs (6 oseltamivir and 1 amantadine).

AD Lab Case Rates



Recruits

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

AD Influenza Lab Case Vaccination Status

Number of DON Active Duty and Recruit Cases since Week 38, 2015-2016 Season					
Case Type	Active Duty		Recruits		Total
	Navy	Marine Corps	Navy	Marine Corps	
Laboratory	6	2	0	0	8
Anitiviral	16	8	0	0	24

Vaccination Status of DON Active Duty and Recruit Influenza Cases, 2016 - 2017 Season					
Status	Immunity Status	Vaccine Type		Total	Percent
		IIV	None		
Active Duty	Vaccinated; immune	1	-	1	12.5%
	Vaccinated; not immune	1	-	1	12.5%
	No vaccination record	-	6	6	75.0%
Total		2	6	8	-

IIV=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, Directorate, Naval and Marine Corps Public Health Center, 13 Oct 2016

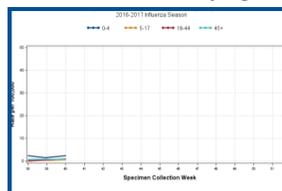
Children

- Laboratory cases are slightly above baseline; 5 laboratory-positive influenza cases were identified.
 - No cases were identified from an inpatient setting.
 - Outpatient cases identified at 4 different facilities, most frequently: NH Yokosuka (2).
- AVs dispensed to children are above baseline estimates; 11 AVs were dispensed.
 - No AVs were dispensed in inpatient settings.
 - Location with most AVs dispensed: NH Camp Lejeune (4).

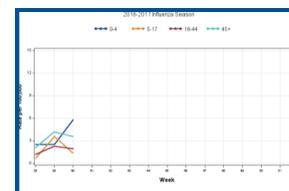
Number of Influenza Laboratory Cases and AV Cases, DON Children

Age	Laboratory		Antiviral Prescriptions	
	Cases	Rate (per 100,000)	Count	Rate (per 100,000)
0-4 years	3	2.5	7	5.8
5-17 years	2	0.7	4	1.4

Lab Case Rates By Age



AV Case Rates By Age



In the News

- The CDC expressed concern that vaccination rates may be lower, as flu mist is not available. [Details](#)
- WHO recommends updating the H1N1 component of the influenza vaccine that has been in use since 2009 due to decreased effectiveness in some age groups. [Details](#)
- The CDC reports some localized H3N2 influenza outbreaks in late August; influenza A was the predominant strain of influenza cases over the summer months. [Details](#)

[< Back to Key Findings](#)