



# Influenza Situation Report: 2016-2017 Season

Department of the Navy

Week 46 (13 November to 19 November 2016)

## Overall Summary

Overall influenza activity was low, with laboratory-identified cases and dispensed AVs slightly above baseline levels.

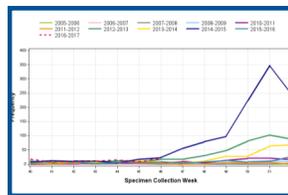
## Key Findings

### Influenza Activity and Surveillance

#### Laboratory

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

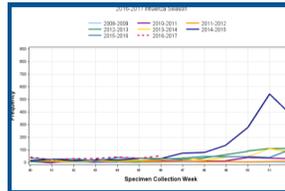
Lab Cases and Past Seasons



#### Antivirals (AVs)

- Dispensed AVs above baseline levels.
- 54 AVs dispensed. [Details](#)

AV Cases and Past Seasons



#### Influenza-Like Illness (ILI)

- ILI outpatient encounters were comparable to baseline at 3.6% of outpatient medical encounters. [Details](#)

### Severity Indicators

#### Inpatient

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

#### Coinfections

- One bacterial coinfection among laboratory-positive cases was identified.
- No rapid strep tests were identified among influenza cases. [Details](#)

### Select Populations

#### Active Duty

- No laboratory-positive cases identified.
- 7 AVs dispensed. [Details](#)

#### Recruits

- No laboratory-positive cases identified.
- No AVs dispensed. [Details](#)
- Febrile respiratory illness rate elevated at MCRD Parris Island. [NHRC Report](#)

#### Children

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

### Active Duty Vaccination Rates

Navy .....	78.4%
Marine Corps .....	81.5%
US Fleet Forces .....	80.4%

[View Table](#)

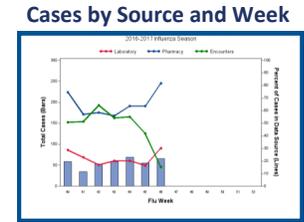
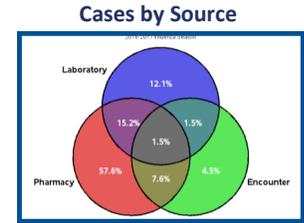
Data source: MRRS, current as of 21 Nov 2016.

# Influenza Activity and Surveillance

## Overall Burden\*

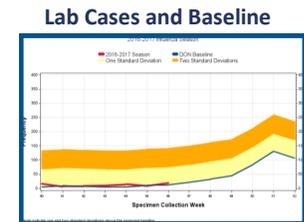
- The weekly burden of influenza in the DON was 66 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (81.8%). One case was identified in all three sources.
- 396 DON cases identified since Week 40.

\*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

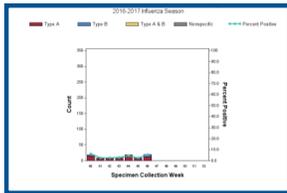
- Laboratory-positive cases were slightly above baseline with 20 cases.
- Influenza types: A (13), B (6), and A and B (1).
- Facilities with the greatest number of cases:
  - Current week: NH Camp Lejeune and NMC San Diego (both with 3), NH Bremerton and NH Oak Harbor (both with 2).
  - Season: NH Camp Lejeune (21), NH Guam-Agana (11), and NMC San Diego (9).



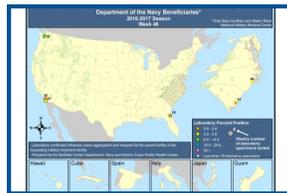
## Specimen Positivity

- 5.6% of all influenza specimens tested; above last season (2.0%).
- Facilities testing 10 or more specimens: 6 (21.4%).

Pos. Specimens and Type



% Pos. Specimens by MTF



Test Types among Positive Influenza Specimens, n (%)

	Rapid	Culture	PCR	Total
<b>Week 44</b>	12(66.7)	2(11.1)	4(22.2)	18
<b>Week 45</b>	7(77.8)	0(0.0)	2(22.2)	9
<b>Week 46</b>	13(65.0)	1(5.0)	6(30.0)	20
<b>Season</b>	71(76.3)	7(7.5)	15(16.1)	93

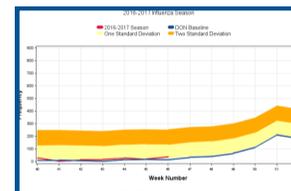
## Antiviral Prescriptions

- AVs dispensed were slightly above baseline levels.
- 54 AVs (52 oseltamivir, 2 amantadine) were dispensed.
- Facilities dispensing most AVs this week: NH Camp Lejeune (6), NH Bremerton and NH Pensacola (both with 5).

Antiviral Medications Dispensed to DON Beneficiaries, n (%)

	Amantadine	Oseltamivir	Total
<b>Week 44</b>	0(0.0)	44(100.0)	44
<b>Week 45</b>	3(8.6)	32(91.4)	35
<b>Week 46</b>	2(3.7)	52(96.3)	54
<b>Season</b>	13(5.0)	248(95.0)	261

AV Cases and Baseline



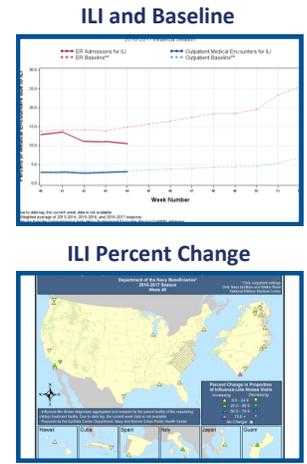
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# Syndromic Surveillance

## Influenza-Like Illness (ILI) \*

- The percentage of medical encounters that included an ILI diagnosis:
  - 3.4% of outpatient encounters (slightly below baseline).
  - 11.1% of ER admissions (below baseline).
- 20 DON facilities (71.4%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - Four facilities had an increase of 25% or higher.
  - NH Beaufort (125.1%) had the greatest increase in the percent of ILI visits (5.8% this week; 2.6% last week).

\*For Week 45, lagged due to data availability



## Severity Indicators

### Inpatient Laboratory

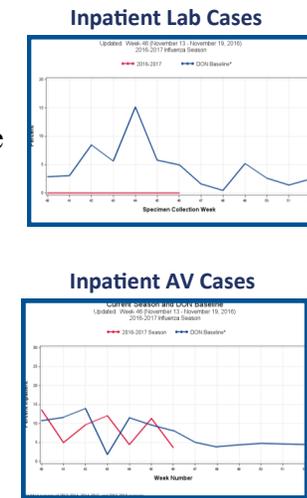
- No inpatient laboratory cases were identified.

### Inpatient Pharmacy

- The percentage of inpatient AVs (3.7% of all influenza AVs) was below baseline (8.2%).
- AVs were dispensed at Ft Belvoir Community Hosp-FBC (1) and NMC San Diego (1).
- AVs were dispensed to non-active duty sponsors (2).

### Influenza-Associated Hospitalization Reports

- There were no influenza cases reported to DRSi for influenza-associated hospitalizations.



## Bacterial Coinfections

- One coinfection was identified during the week, *Streptococcus*, from an upper respiratory specimen source. [View Table](#)
- No rapid strep tests were identified among influenza cases.

**Bacterial Coinfections by Specimen Source and as a Percent of Laboratory Cases, 2016-2017 Season**

	Coinfections by Specimen Source, n (%)			Lab Cases with Bacterial Coinfection (%)
	Upper Respiratory	Lower Respiratory	Non-Respiratory	
<b>Current Season (n=2)</b>	1(50.0)	0 (0.0)	1(50.0)	2.2
<b>Cumulative Baseline* (n=1.5)</b>	0 (0.0)	0.5(23.1)	1.7(76.9)	3.6

\* 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.

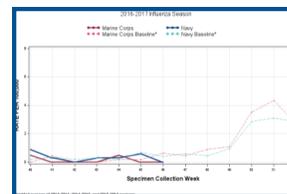
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# Select Populations

## Active Duty

- No laboratory-positive influenza cases were identified among active duty service members.
- Seven active duty service members (3 Navy, 4 Marine) were dispensed AVs (all oseltamivir).

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 40, 2016-2017 Season					
Case Type	Active Duty		Recruits		Total
	Navy	Marine Corps	Navy	Marine Corps	
Laboratory	8	2	0	0	10
Antiviral	33	14	0	1	48

Status	Immunity Status	Vaccine Type			Total	Percent
		IIV	None			
Active Duty	Vaccinated; immune	4	-		4	40.0%
	Vaccinated; not immune	5	-		5	50.0%
	No vaccination record	-	1		1	10.0%
<b>Total</b>		<b>9</b>	<b>1</b>		<b>10</b>	<b>-</b>

I: I (live-attenuated influenza vaccine (intranasal)), II: I (inactivated 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, 23 Nov 2016.

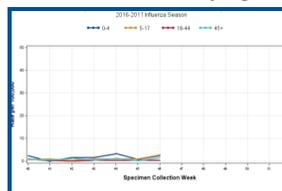
## Children

- Laboratory cases were above baseline levels; 11 laboratory-positive influenza cases were identified.
  - No cases were identified from an inpatient setting.
  - Outpatient cases were identified at NH Camp Lejeune (3), NH Oak Harbor and NMC San Diego (both with 2), and others.
- AVs dispensed to children were above baseline levels; 14 AVs were dispensed.
  - No AVs were dispensed in the inpatient setting.
  - Locations with most AVs dispensed: NH Camp Lejeune (3) and NH Oak Harbor (2).

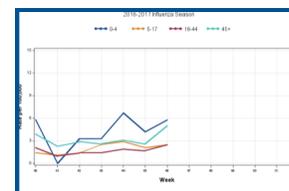
Number of Influenza Laboratory Cases and AV Cases, DON Children

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	8	2.9	7	2.5

Lab Case Rates By Age



AV Case Rates By Age



## In the News

- The CDC reports that influenza activity in the US during Week 45 was low; ILI visits are below baseline levels. [Details](#)
- Germany, Austria, and Switzerland have reported outbreaks of a severe strain of avian influenza. [Details](#)

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