



# Influenza Situation Report: 2016-2017 Season

Department of the Navy

**Week 44 (30 October to 05 November 2016)**

## Overall Summary

Overall influenza activity was low. However, laboratory-positive influenza cases and dispensed AVs were both slightly above baseline levels.

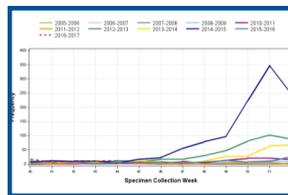
## Key Findings

### Influenza Activity and Surveillance

#### Laboratory

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

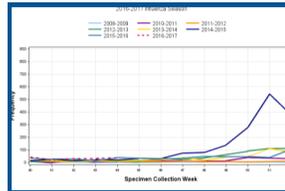
Lab Cases and Past Seasons



#### Antivirals (AVs)

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

AV Cases and Past Seasons



#### Influenza-Like Illness (ILI)

- ILI outpatient encounters were slightly below baseline at 2.9% of outpatient medical encounters. [Details](#)

### Severity Indicators

#### Inpatient

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

#### Coinfections

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

### Select Populations

#### Active Duty

- Two laboratory-positive case identified.
- 6 AVs dispensed. [Details](#)

#### Recruits

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

#### Children

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

### Active Duty Vaccination Rates

Navy .....	63.9%
Marine Corps .....	72.3%
US Fleet Forces .....	64.4%

[View Table](#)

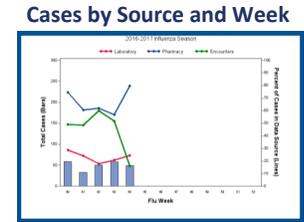
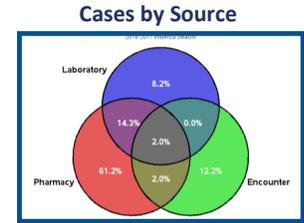
Data source: MRRS, current as of 07 Nov 2016.

# Influenza Activity and Surveillance

## Overall Burden\*

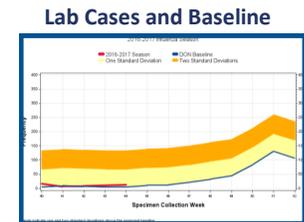
- The weekly burden of influenza in the DON was 49 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (79.6%). One case was identified in all three sources.
- 249 DON cases identified since Week 40.

\*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

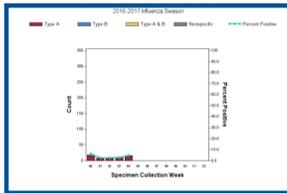
- Laboratory-positive cases were slightly above baseline with 13 cases; the case count was slightly above the count of the previous week.
- Influenza types: A (10), B (3), and A and B (0).
- Facilities with the greatest number of cases:
  - Current week: NH Camp Lejeune (3), and NH Bremerton (2).
  - Season: NH Camp Lejeune (13), NH Guam-Agana (11), NH Bremerton (4), and NH Yokosuka (4).



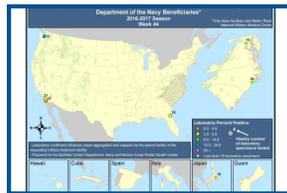
## Specimen Positivity

- 5.0% of all influenza specimens tested; above last season (1.9%).
- Facilities testing 10 or more specimens: 7 (25.0%).

Pos. Specimens and Type



% Pos. Specimens by MTF



Test Types among Positive Influenza Specimens, n (%)

	Rapid	Culture	PCR	Total
<b>Week 42</b>	9(100.0)	0(0.0)	0(0.0)	9
<b>Week 43</b>	9(81.8)	0(0.0)	2(18.2)	11
<b>Week 44</b>	11(68.8)	2(12.5)	3(18.8)	16
<b>Season</b>	50(80.6)	6(9.7)	6(9.7)	62

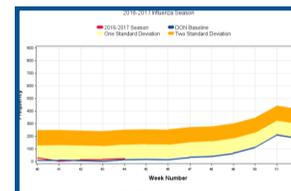
## Antiviral Prescriptions

- AVs dispensed were slightly above baseline; AVs increased slightly from the prior week.
- 39 AVs (39 oseltamivir, 0 amantadine) were dispensed.
- Facilities dispensing most AVs this week: NH Camp Lejeune (6), NHC Corpus Christi (4), NMC Portsmouth (4).

Antiviral Medications Dispensed to DON Beneficiaries, n (%)

	Amantadine	Oseltamivir	Total
<b>Week 42</b>	2(6.4)	29(93.6)	31
<b>Week 43</b>	1(3.0)	32(97.0)	33
<b>Week 44</b>	0(0.0)	39(100.0)	39
<b>Season</b>	8(4.8)	159(95.2)	167

AV Cases and Baseline

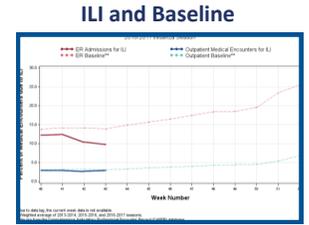


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# Syndromic Surveillance

## Influenza-Like Illness (ILI) \*

- The percentage of medical encounters that included an ILI diagnosis:
  - 2.9% of outpatient encounters (below baseline).
  - 9.8% of ER admissions (below baseline).
- 22 DON facilities (78.6%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - Six facilities had an increase of 25% or higher.
  - NH Sigonella (70.4%) had the greatest increase in the percent of ILI visits (2.7% this week; 1.6% last week).



\*For Week 43, lagged due to data availability

## Severity Indicators

### Inpatient Laboratory

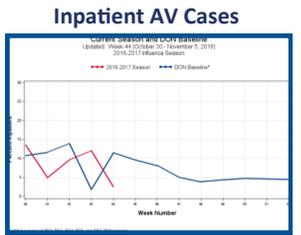
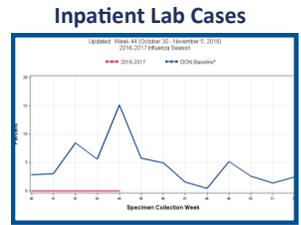
- No inpatient laboratory cases were identified.

### Inpatient Pharmacy

- The percentage of inpatient AVs (2.6% of all influenza AVs) was below baseline (11.6%).
- One AV was dispensed at NMC Portsmouth
- AVs were dispensed to active duty (1), spouses (0), and a child (0).

### Influenza-Associated Hospitalization Reports

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



## Bacterial Coinfections

- No coinfections were identified during the week.
- No rapid strep test was 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	
Current Season (n=1)	0(0.0)	0 (0.0)	1(100.0)	1.7
Cumulative Baseline* (n=1.5)	0 (0.0)	0.5(33.3)	1 (66.7)	4.2

\* 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.

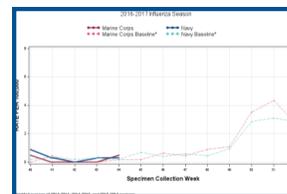
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## Select Populations

### Active Duty

- Two laboratory-positive (one Type A and one Type B) influenza cases were identified among active duty service members, one each at NH Bremerton and IA-USA Hospital Bad Cannstatt.
- 6 active duty service members (4 Navy, 2 Marine) were dispensed AVs (all oseltamivir).

AD Lab Case Rates



### Recruits

- No laboratory-positive influenza cases were identified among recruits.
- No AV was 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	6	2	0	0	8
Antiviral	26	9	0	1	36

Vaccination Status of DON Active Duty and Recruit Influenza Cases, 2016 - 2017 Season					
Status	Immunity Status	Vaccine Type		Total	Percent
		IV	None		
Active Duty	Vaccinated, immune	2	-	2	25.0%
	Vaccinated, not immune	4	-	4	50.0%
	No vaccination record	-	2	2	25.0%
Total		6	2	8	-

IIV: live-attenuated influenza vaccine (intranasal), IIV: 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.  
 Reported by: EpiData Center, Navy and Marine Corps Public Health Center, 28 May 2016

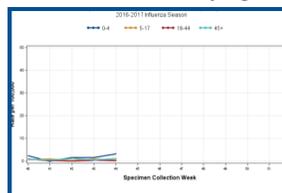
### Children

- Laboratory cases were slightly above baseline; 6 laboratory-positive influenza cases were identified.
  - No cases were identified from an inpatient setting.
  - Outpatient cases identified at 4 different facilities, NH Camp Lejeune (3), NH Camp Pendleton, NH Bremerton, and AMC Brooke-Sammc-Sam Houston (all with 1).
- AVs dispensed to children were above baseline estimates; 14 AVs were dispensed.
  - No AV was dispensed in the inpatient setting.
  - Locations with most AVs dispensed: NH Camp Lejeune (6) and NMC Portsmouth (2).

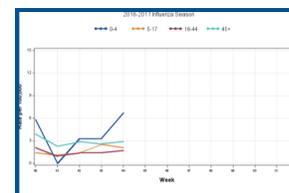
Number of Influenza Laboratory Cases and AV Cases, DON Children

Age	Laboratory		Antiviral Prescriptions	
	Cases	Rate (per 100,000)	Count	Rate (per 100,000)
0-4 years	4	3.3	8	6.7
5-17 years	2	0.7	6	2.1

Lab Case Rates By Age



AV Case Rates By Age



## In the News

- Influenza activity in temperate southern hemisphere countries continued to decrease or remained low, while activity in the temperate zone of the northern hemisphere remained at inter-seasonal levels. [Details](#)
- A study published in the journal *Pediatrics* shows that a single inhaled dose of 20-mg of laninamivir octanoate reduced the relative risk of contracting influenza by 45.8% in children under the age of 10 years. [Details](#)

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