



# Influenza Situation Report: 2016-2017 Season

Department of the Navy

Week 41 (9 October—15 October 2016)

## Overall Summary

The counts of laboratory-positive cases and antiviral prescriptions dispensed among all populations are lower than last week and below seasonal baselines.

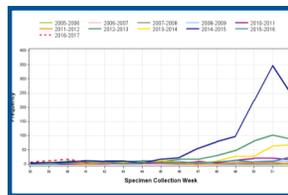
## Key Findings

### Influenza Activity and Surveillance

#### Laboratory

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

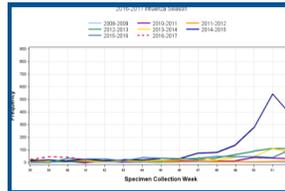
Lab Cases and Past Seasons



#### Antivirals (AVs)

- Dispensed AVs were below baseline.
- 20 AVs dispensed. [Details](#)

AV Cases and Past Seasons



#### Influenza-Like Illness (ILI)

- ILI outpatient encounters were 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

- One bacterial coinfection among laboratory-positive cases was identified. [Details](#)

### Select Populations

#### Active Duty

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

#### Recruits

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

#### Children

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

### Active Duty Vaccination Rates

Navy .....	35.4%
Marine Corps .....	30.6%
US Fleet Forces .....	40.4%

[View Table](#)

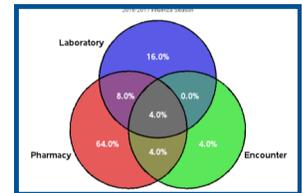
Data source: MRRS, current as of 17 Oct 2016.

# Influenza Activity and Surveillance

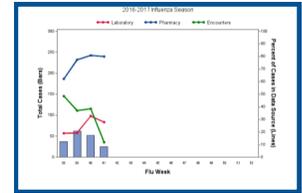
## Overall Burden\*

- The weekly burden of influenza in the DON was 25 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (80.0%). One case was identified in all three sources.
- Since Week 38, 176 DON cases have been identified.

Cases by Source



Cases by Source and Week

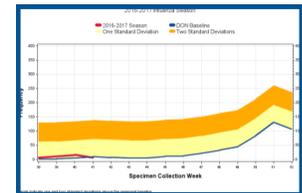


\*Note: The estimated burden of influenza across the DON combines three major sources of data: certified laboratory results, antiviral pharmacy transactions, and medical encounters with influenza-specific diagnoses.

## Laboratory Cases

- Laboratory-positive cases were below baseline with 7 cases, lower than the count of the previous week.
- Influenza case types: A (6), B (0), and A and B (1).
- Facilities with the greatest number of cases:
  - Current week: NH Camp Lejeune (3), 60th Med Grp-Travis, NH Naples, NH Guam-Agana, NH Okinawa (all with 1 case).
  - Season: NH Camp Lejeune (10), NH Guam-Agana (6), AMC Tripler\_Shafter (4).

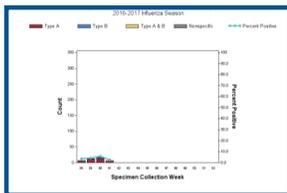
Lab Cases and Baseline



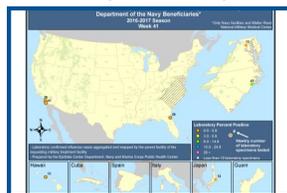
## Specimen Positivity

- 2.5% of all influenza specimens tested; lower than the same time last season (4.1%).
- Facilities testing more than 10 specimens: 7 (25%).

Pos. Specimens and Type



% Pos. Specimens by MTF



Test Types among Positive Influenza Specimens, n (%)

	Rapid	Culture	PCR	Total
<b>Week 39</b>	11 (84.6)	1 (7.7)	1 (7.7)	13
<b>Week 40</b>	14 (82.4)	2 (11.8)	1 (5.9)	17
<b>Week 41</b>	7 (100.0)	0 (0.0)	0 (0.0)	7
<b>Season</b>	37 (84.1)	4 (9.1)	3 (6.8)	44

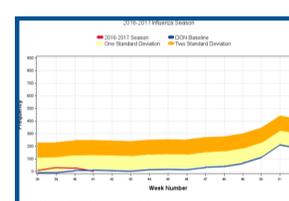
## Antiviral Prescriptions

- AVs dispensed were below baseline; AVs decreased from the prior week.
- 20 AVs (19 oseltamivir, 1 amantadine) were dispensed.
- Facilities dispensing most AVs this week: NH Pensacola (2) and NMC San Diego (2).
- The majority (93.4%) of prescriptions for the season have been for oseltamivir.

Antiviral Medications Dispensed to DON Beneficiaries, n (%)

	Amantadine	Oseltamivir	Total
<b>Week 41</b>	1 (5.0)	19 (95.0)	20
<b>Season</b>	10 (6.6)	142 (93.4)	152

AV Cases and Baseline

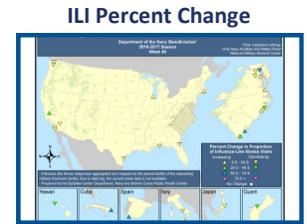
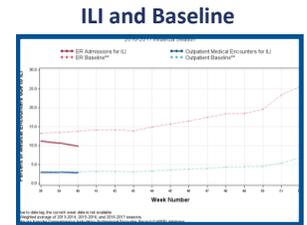


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# Syndromic Surveillance

## Influenza-Like Illness (ILI) \*

- The percentage of medical encounters that included an ILI diagnosis:
  - 2.9% of outpatient encounters (below baseline).
  - 9.9% of ER admissions (below baseline).
- 11 DON facilities (39.3%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - Five facilities had an increase above 25%.
  - Naval Health Clinic Charleston (72.5%) had the highest increase.



## Severity Indicators

### Inpatient Laboratory

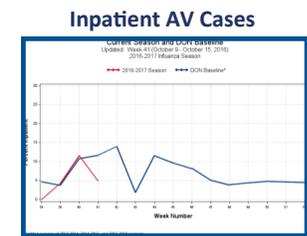
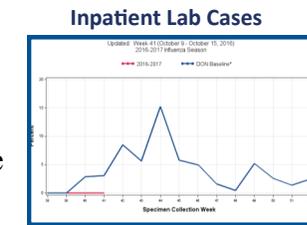
- No influenza-positive laboratory cases were identified in the inpatient setting.

### Inpatient Pharmacy

- The percentage of inpatient AVs (5.0% of all influenza AVs) was below baseline (11.7%).
- One inpatient AV was dispensed to a non-active duty sponsor at AMC Brooke-SAMMC-Sam Houston.

### Influenza-Associated Hospitalization Reports

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



## Bacterial Coinfections

- Coinfections among laboratory-identified influenza cases are above baseline.
- 1 coinfection was identified this week.
- The coinfection identified was from a non-respiratory specimen. [Details](#)
- No positive rapid strep tests were 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	
<b>Current Season (n=63)</b>	0 (0.0)	0 (0.0)	5 (100.0)	4.7
<b>Cumulative Baseline* (n=92)</b>	0(0.0)	0.5 (60)	0.3 (40.0)	5.1

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.

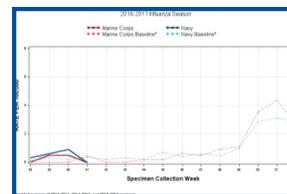
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# Select Populations

## Active Duty

- No laboratory-positive influenza cases were identified among active duty service members.
- 4 active duty service members (2 Navy, 2 Marines) were dispensed AVs (all oseltamivir) during Week 41.

AD Lab Case Rates



## Recruits

- No laboratory-positive influenza case 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
Antiviral	17	10	0	0	27

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	2	-	2	25.0%
	No vaccination record	-	5	5	62.5%
Total		3	5	8	-

LAI/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.  
Recreated by EpiData Center, Department of Navy and Marine Corps Public Health Center, 16 Oct 2016

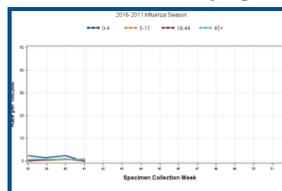
## Children

- 3 laboratory-positive influenza cases were identified, below baseline.
  - No cases were identified from an inpatient setting.
  - Outpatient cases identified at 3 different facilities: NH Okinawa, NH Naples, NH Guam-Agana
- AVs dispensed to children are below baseline estimates; 3 AVs were dispensed.
  - No AVs were dispensed in inpatient settings.
  - Locations with most AVs dispensed: 375th Med Grp-Scott, NH Guam-Agana, NH Naples (all 1 AV dispensed).

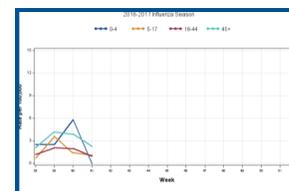
Number of Influenza Laboratory Cases and AV Cases, DON Children

Age	Laboratory		Antiviral Prescriptions	
	Cases	Rate (per 100,000)	Count	Rate (per 100,000)
0-4 years	0	0.0	0	0.0
5-17 years	3	1.1	3	1.1

Lab Case Rates By Age



AV Case Rates By Age



## In the News

- The CDC reports that influenza activity in the continental US is low and ILI encounters are below baseline. However, there is widespread influenza activity in Guam. [Details](#)

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