



Influenza Situation Report: 2016-2017 Season

Department of the Navy

Week 43 (23 October to 29 October 2016)

Overall Summary

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

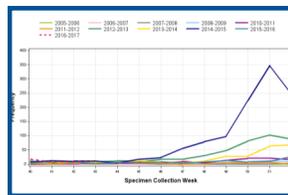
Key Findings

Influenza Activity and Surveillance

Laboratory

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

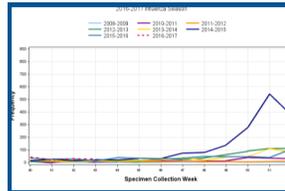
Lab Cases and Past Seasons



Antivirals (AVs)

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

AV Cases and Past Seasons



Influenza-Like Illness (ILI)

- ILI outpatient encounters were below baseline at 2.7% 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.
- One positive rapid strep test was identified among influenza cases. [Details](#)

Select Populations

Active Duty

- One laboratory-positive case identified.
- 9 AVs dispensed. [Details](#)

Recruits

- No laboratory-positive case identified.
- One AV 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	54.6%
Marine Corps	62.1%
US Fleet Forces	57.8%

[View Table](#)

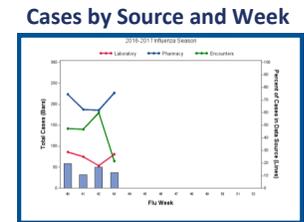
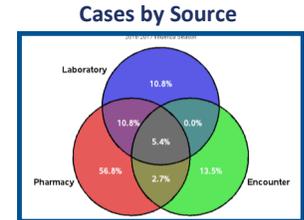
Data source: MRRS, current as of 31 Oct 2016.

Influenza Activity and Surveillance

Overall Burden*

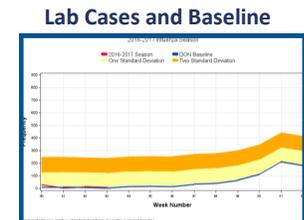
- The weekly burden of influenza in the DON was 37 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (56.8%). Two cases were identified in all three sources.
- 178 DON cases identified since Week 40.

*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

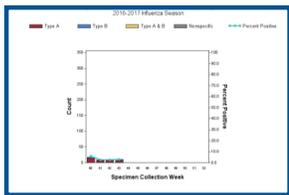
- Laboratory-positive cases were slightly above baseline with 10 cases; the case count was slightly above the count of the previous week.
- Influenza types: A (6), B (4), and A and B (0).
- Facilities with the greatest number of cases:
 - Current week: NH Camp Lejeune (3), NMC San Diego (2).
 - Season: NH Guam-Agana (10), NH Camp Lejeune (10), and NH Yokosuka (4).



Specimen Positivity

- 3.1% of all influenza specimens tested; above last season (0.6%).
- 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 41	7(87.5)	1(12.5)	0(0.0)	8
Week 42	9(100.0)	0(0.0)	0(0.0)	9
Week 43	8(80.0)	0(0.0)	2(2.0)	10
Season	38(86.4)	3(6.8)	13(6.8)	44

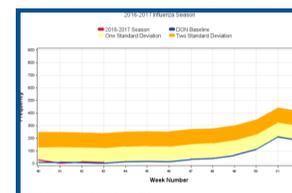
Antiviral Prescriptions

- AVs dispensed were slightly above baseline; AVs decreased slightly from the prior week.
- 28 AVs (27 oseltamivir, 1 amantadine) were dispensed.
- Facilities dispensing most AVs this week: NH Camp Lejeune (6), Ft Belvoir Community Hosp-FBC (3), NH Camp Pendleton (3).

Antiviral Medications Dispensed to DON Beneficiaries, n (%)

	Amantadine	Oseltamivir	Total
Week 41	1(5.0)	19(95.0)	20
Week 42	2(6.4)	29(93.6)	31
Week 43	1(3.6)	27(96.4)	28
Season	8(6.5)	115(93.5)	123

AV Cases and Baseline



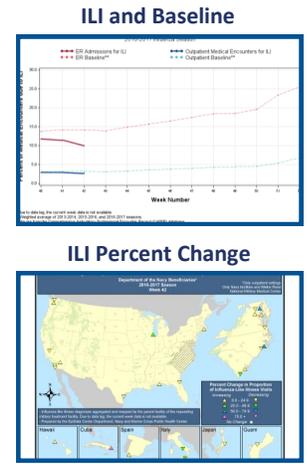
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Syndromic Surveillance

Influenza-Like Illness (ILI) *

- The percentage of medical encounters that included an ILI diagnosis:
 - 2.7% of outpatient encounters (below baseline).
 - 10.0% of ER admissions (below baseline).
- 13 DON facilities (46.4%) reported an increase in the proportion of outpatient ILI visits from the prior week.
 - Four facilities had an increase above 25% .
 - NH Guantanamo Bay (233.8%) had the greatest increase in the percent of ILI visits (3.0% this week; 0.9% last week).

*For Week 42, lagged due to data availability



Severity Indicators

Inpatient Laboratory

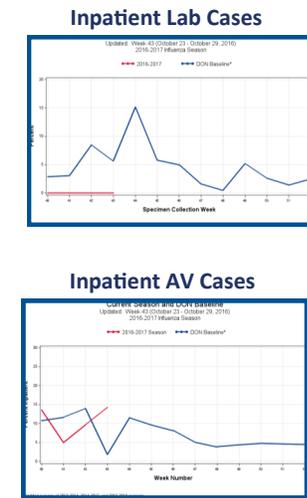
- No inpatient laboratory cases were identified.

Inpatient Pharmacy

- The percentage of inpatient AVs (14.3% of all influenza AVs) was above baseline (1.9%).
- AVs were dispensed at Ft Belvoir Community Hosp-FBC, NH Camp Pendleton, NMC Portsmouth, NMC San Diego (all with 1 inpatient AV dispensed).
- AVs were dispensed to active duty (1), spouses (2), and a child (1).

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.
- One positive 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)	2.3
Cumulative Baseline* (n=1.5)	0 (0.0)	0.5(33.3)	1 (66.7)	5.0

* 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.

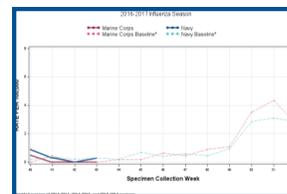
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Select Populations

Active Duty

- One laboratory-positive Type A influenza case was identified among active duty service members (Navy) at NH Bremerton.
- 9 active duty service members (6 Navy, 3 Marine) were dispensed AVs (all oseltamivir).

AD Lab Case Rates



Recruits

- No laboratory-positive influenza cases were identified among recruits.
- One AV was dispensed to a recruit.

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	5	1	0	0	6
Antiviral	22	7	0	1	30

Vaccination Status of DON Active Duty and Recruit Influenza Cases, 2016 - 2017 Season				
Status	Immunity Status	Vaccine Type		
		IIV	Total	Percent
Active Duty	Vaccinated; immune	2	2	33.3%
	Vaccinated; not immune	4	4	66.7%
Total		6	6	-

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 Department, Navy and Marine Corps Public Health Center, 02 Nov 2016

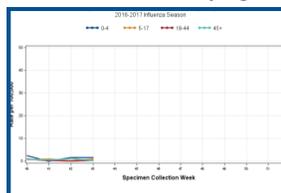
Children

- Laboratory cases were above baseline; 5 laboratory-positive influenza cases were identified.
 - No cases were identified from an inpatient setting.
 - Outpatient cases identified at 3 different facilities, NH Camp Lejeune, NH Guam-Agana, and NH Yokosuka.
- AVs dispensed to children were above baseline estimates; 9 AVs were dispensed.
 - One AV was dispensed in the inpatient setting.
 - Location with most AVs dispensed: NH Camp Lejeune (5).

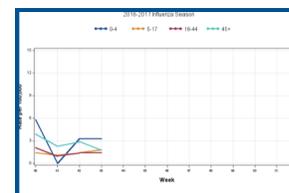
Number of Influenza Laboratory Cases and AV Cases, DON Children

Age	Laboratory		Antiviral Prescriptions	
	Cases	Rate (per 100,000)	Count	Rate (per 100,000)
0-4 years	2	1.66	4	3.3
5-17 years	3	1.07	5	1.8

Lab Case Rates By Age



AV Case Rates By Age



In the News

- US influenza activity is low; the proportion of outpatient visits for ILI is below national baseline. [Details](#)
- A study published this week in the *Proceedings of the National Academy of Sciences* discussed absolute humidity and temperature as environmental factors linked to influenza outbreaks. [Details](#)

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