



# Influenza Situation Report: 2015-2016 Season

Department of the Navy

Week 51 (20 December to 26 December 2015)

## Overall Summary

Laboratory, pharmacy, and influenza-like-illness trends are below baseline. Impact for active duty personnel remains minimal. Navy active duty vaccination rates surpassed 90%.

## Key Findings

### Influenza Activity and Surveillance

#### Laboratory

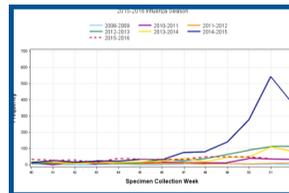
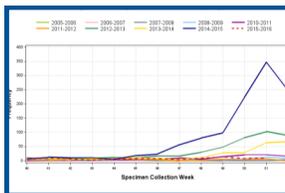
10 laboratory positive influenza cases were identified during Week 51, below baseline. [Details](#)

#### Antivirals (AVs)

38 AV medications were dispensed in Week 51, below baseline. [Details](#)

#### Influenza-Like Illness (ILI)

Overall, 4.3% of outpatient medical encounters were due to ILI, below baseline. [Details](#)



### Severity Indicators

#### Inpatient

This week, there were no inpatient laboratory positive cases and four inpatient antiviral prescriptions were identified. There were no inpatient cases reported to DRSi. [Details](#)

#### Coinfections

There were no bacterial coinfections identified among laboratory positive cases during Week 51. [Details](#)

### Select Populations

#### Active Duty and Recruits

In Week 51, one laboratory positive case and eight dispensed AV prescriptions were among active duty personnel. [Details](#)

Most current NHRC surveillance reports febrile respiratory illness rates were at or below expected values at MCRD San Diego, MCRD Parris Island and NRTC Great Lakes. [Details](#)

#### Children

The rates of influenza positive laboratory cases and influenza specific AV prescriptions in children remain low. [Details](#)

### Active Duty Vaccination Rates

Navy: 90.8%  
Marine Corps: 88.1%  
US Fleet Forces: 96.5%

#### [View Table](#)

Data source: MRRS, current as of 28 Dec 2015.

Prepared by the EpiData Center ([email](#); [web](#))

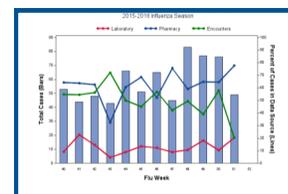
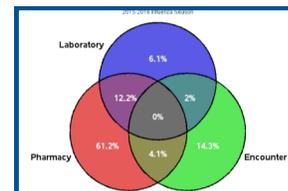


# Influenza Activity and Surveillance

## Overall Burden

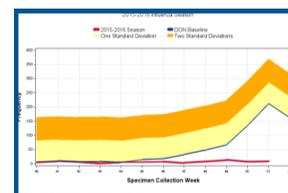
The estimated burden of influenza across the DON combines three major sources of data: certified laboratory results, antiviral pharmacy transactions, and medical encounters with influenza-specific diagnoses.

- During Week 51, there were 49 DON cases identified in one or more data sources; pharmacy captured the highest proportion of cases (62.1%). No cases were identified in all three sources.
- Since Week 40, there have been 700 DON cases identified in at least one of the three data sources.



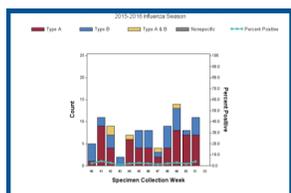
## Laboratory Cases

- Ten laboratory positive influenza cases were identified during Week 51 (seven type A, three type B); below baseline estimates.
- Three cases during Week 51 were identified at NMC San Diego, two at NH Camp Lejeune, and one each at NH Lemoore, NH Twentynine Palms, 88th Med Grp Wright Patterson, NH Oak Harbor, and NH Okinawa.
- Since Week 40, 96 laboratory positive cases were identified among DON beneficiaries. Top facilities thus far: NMC San Diego (15), NH Lemoore (12), NH Camp Lejeune (12), and NHC Hawaii (7).



## Specimen Positivity

- 3.8% of all influenza specimens tested during Week 51 were positive, lower than last season (28.0%).
- When grouped by parent facility, seven (25.0%) locations tested more than ten specimens; specimens from two of these facilities had positive results. NMC San Diego had the highest percent positive (7.5%) during Week 51.

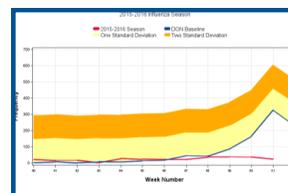


Test Types among Positive Influenza Specimens, n (%)				
	Rapid	Culture	PCR	Total
<b>Week 49</b>	3 (21.4)	2 (14.3)	9 (64.3)	14
<b>Week 50</b>	6 (75.0)	0 (0.0)	2 (25.0)	8
<b>Week 51</b>	9 (81.8)	0 (0.0)	2 (18.2)	11
<b>Season</b>	64 (66.7)	14 (14.6)	18 (18.8)	96

## Antiviral Prescriptions

- 38 antiviral prescriptions were dispensed during Week 51, below baseline estimates.
- Most common facilities this week: NMC San Diego (7), NH Camp Pendleton (4), and NMC Portsmouth (4).
- Since Week 40, the majority (97.7%) of prescriptions were for Oseltamivir.

Antiviral Medications Dispensed to DON Beneficiaries, n (%)					
	Amantadine	Oseltamivir	Rimantadine	Zanamivir	Total
<b>Week 51</b>	1 (2.6)	37 (97.4)	0 (0.0)	0 (0.0)	38
<b>Season</b>	10 (2.3)	425 (97.7)	0 (0.0)	0 (0.0)	435



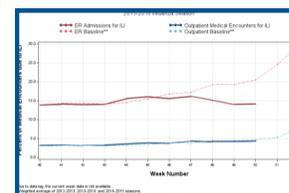
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# Syndromic Surveillance

## Influenza-Like Illness (ILI)

- The percent of medical encounters that included an ILI diagnosis during Week 50 (lagged due to data availability):
  - 4.3% of outpatient (below baseline)
  - 14.1% of ER (below baseline)
- When grouped by parent facility, 19 DON facilities (67.9%) experienced an increase in the proportion of outpatient ILI visits during Week 50; two facilities experienced an increase above 25.0% (NH Naples, NH Rota).



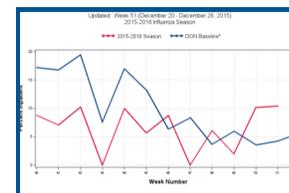
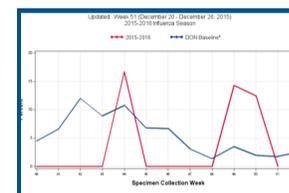
## Severity Indicators

### Inpatient Laboratory

- There were no laboratory cases in the inpatient setting during Week 51.

### Inpatient Pharmacy

- Four (10.5%) AV prescriptions were in the inpatient setting during Week 51 (above baseline).
- This week's inpatient cases were 18-44 (2) and 45+ (2) years old at three different facilities.



### Influenza-Associated Hospitalization Reports

- There were no inpatient cases reported to DRSi this week.

## Bacterial Coinfections

- No coinfections were identified during Week 51.
- Though overall case counts remain low, the percent of laboratory positive cases with a coinfection this season (5.9%) is almost twice baseline with a higher proportion than expected from lower respiratory specimens.

Proportion Bacterial Coinfections by Respiratory Source and Percent of Laboratory Positive Cases with a Bacterial Coinfections since Week 40, 2015-2016 Season				
	Coinfections by Respiratory Source, n (%)			Lab Cases with Bacterial Coinfection (%)
	Upper Respiratory	Lower Respiratory	Non-Respiratory	
<b>Current Season (n=5)</b>	2 (40.0)	2 (40.0)	1 (20.0)	5.6
<b>Cumulative Baseline (n=11.3)</b>	5.5 (35.5)	1 (6.5)	9 (58.1)	2.7

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

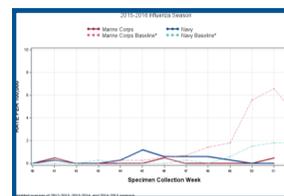
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# Select Populations

## Active Duty

- One laboratory positive influenza case was identified among active duty service members during Week 51. This week's case was a male Marine Corps service member with influenza type A in an outpatient setting at NMC San Diego.
- Eight active duty service members (5 Navy, 3 Marines) were dispensed AVs (1 amantadine, 7 oseltamivir) during Week 51; three of these were at NMC Portsmouth, two at NH Twentynine Palms, and one each at three different facilities.



Status	Immunization Status	Vaccine Type				Total	Percentage
		LAIN	IV	LAIN & IV	None		
Active Duty	Vaccinated; immune	-	3	1	-	4	25.0%
	Vaccinated; not immune	5	5	-	-	10	62.5%
	No vaccination record	-	-	-	2	2	12.5%
<b>Total</b>		<b>5</b>	<b>8</b>	<b>1</b>	<b>2</b>	<b>16</b>	

LAIN=live-attenuated influenza vaccine (intranasal), IV=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.  
 Based on EpiData Center Department, Navy and Marine Corps Public Health Center, 29 December 2015

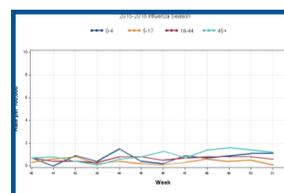
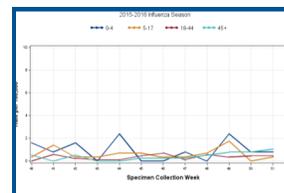
## Recruits

- There were no laboratory positive influenza cases among recruits during Week 51.
- There were no AVs dispensed to recruits during Week 51.

Case Type	Active Duty		Recruits		Total
	Navy	Marine Corps	Navy	Marine Corps	
Laboratory Positive	13	3	0	0	16
AV Prescriptions	83	34	2	1	120

## Children

- The rate of laboratory positive influenza cases and AV prescriptions remains low for all age groups.
- Two laboratory positive influenza cases were identified among children during Week 51, below baseline estimates for children.
  - This week's cases (influenza type A) were one 0-4 year old child and one 5-17 year old child in outpatient settings at NH Camp Lejeune.
- There were six AVs dispensed to children during Week 51, below baseline estimates for children.
  - This week's cases (all oseltamivir) were five 0-4 year old children and one 5-17 year old child. Two of these cases were from NH Beaufort.



## In the News

- During the week ending December 19, outpatient visits for influenza-like illness in the United States rose above 2.2%, surpassing the national baseline of 2.1% for the first time this season. [Details](#)

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