



Influenza Situation Report: 2015-2016 Season

Department of the Navy

Week 3 (17 January to 23 January 2016)

Overall Summary

Overall laboratory, pharmacy, and influenza-like-illness trends are below baseline. Impact among active duty personnel remains minimal.

Key Findings

Influenza Activity and Surveillance

Laboratory

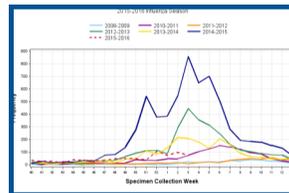
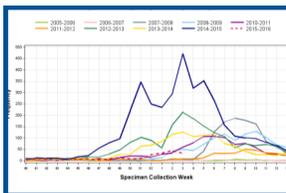
32 laboratory positive influenza cases were identified during Week 3, below baseline. [Details](#)

Antivirals (AVs)

76 AV medications were dispensed in Week 3, below baseline. [Details](#)

Influenza-Like Illness (ILI)

Overall, 4.1% of outpatient medical encounters were due to ILI, below baseline. [Details](#)



Severity Indicators

Inpatient

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

Coinfections

There was one nonrespiratory bacterial coinfection identified among laboratory positive cases during Week 3. [Details](#)

Select Populations

Active Duty and Recruits

In Week 3, there was one laboratory positive case and 12 AV prescriptions dispensed to active duty personnel. Among recruits, there were two laboratory positive cases and one dispensed AV prescription. [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 number of influenza positive laboratory cases and influenza specific AV prescriptions in children remain below baseline. [Details](#)

Active Duty Vaccination Rates

Navy: 93.0%
Marine Corps: 93.5%
US Fleet Forces: 97.9%

[View Table](#)

Data source: MRRS, current as of 25 Jan 2016.

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

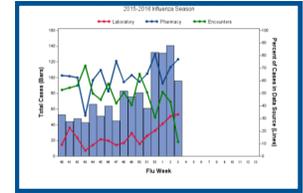
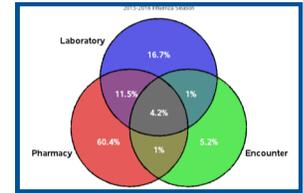


Influenza Activity and Surveillance

Overall Burden

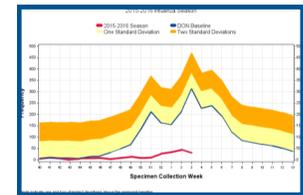
The estimated burden of influenza across the DON combines three major sources of data: certified laboratory results, antiviral pharmacy transactions, and medical encounters with influenza-specific diagnoses.

- During Week 3, there were 96 DON cases identified in one or more data sources; pharmacy captured the highest proportion of cases (65.1%). Four cases were identified in all three sources.
- Since Week 40, there have been 1,215 DON cases identified in at least one of the three data sources.



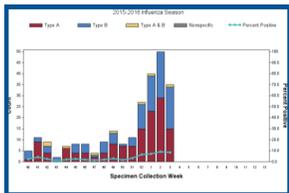
Laboratory Cases

- 32 laboratory positive influenza cases were identified during Week 3 (15 type A, 16 type B, 1 type A&B); below baseline estimates.
- Most common facilities this week: NMC San Diego (11) and NH Bremerton (5).
- Since Week 40, 187 laboratory positive cases were identified among DON beneficiaries. Top facilities thus far: NMC San Diego (73), NH Lemoore (20), NH Bremerton (15), NH Camp Lejeune (14), and NH Camp Pendleton (14).



Specimen Positivity

- 8.5% of all influenza specimens tested during Week 3 were positive, lower than last season (28.6%).
- When grouped by parent facility, 8 (28.6%) locations tested more than ten specimens. WRNMMC (20.0%), James A Lovell FHCC (16.7%), NH Bremerton (16.7%), and NH Jacksonville (14.3%) experienced the highest positivity.

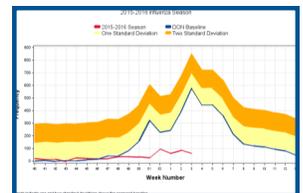


Test Types among Positive Influenza Specimens, n (%)				
	Rapid	Culture	PCR	Total
Week 1	14 (35.0)	3 (7.5)	23 (57.5)	40
Week 2	23 (44.2)	4 (7.7)	25 (48.1)	52
Week 3	21 (60.0)	1 (2.9)	13 (37.1)	35
Season	139 (55.6)	23 (9.2)	88 (35.2)	250

Antiviral Prescriptions

- 76 antiviral prescriptions were dispensed during Week 3.
- Most common facilities this week: NMC San Diego (14) and NH Camp Pendleton (9).
- Since Week 40, the majority (98.4%) of prescriptions were for Oseltamivir.

Antiviral Medications Dispensed to DON Beneficiaries, n (%)					
	Amantadine	Oseltamivir	Rimantadine	Zanamivir	Total
Week 3	0 (0.0)	76 (100.0)	0 (0.0)	0 (0.0)	76
Season	13 (1.6)	778 (98.4)	0 (0.0)	0 (0.0)	778



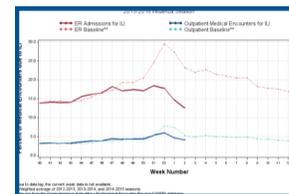
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Syndromic Surveillance

Influenza-Like Illness (ILI)

- The percent of medical encounters that included an ILI diagnosis during Week 2 (lagged due to data availability):
 - 4.1% of outpatient encounters (below baseline)
 - 12.6% of ER admissions (below baseline)
- When grouped by parent facility, 4 DON facilities (14.3%) experienced an increase in the proportion of outpatient ILI visits during Week 2; none experienced an increase above 25%.



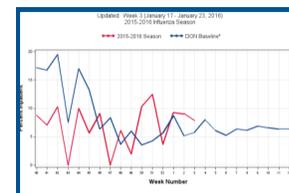
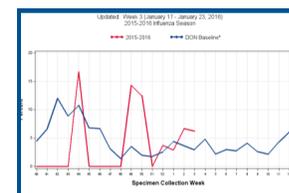
Severity Indicators

Inpatient Laboratory

- Two laboratory case (6.3%) was identified in an inpatient setting during Week 3.
- The two cases were influenza B positive family members (0-4 and 5-17 years of age) at NMC San Diego.

Inpatient Pharmacy

- Six (7.9%) AV prescriptions were in the inpatient setting during Week 3, above baseline (5.8%).
- This week's inpatient cases include one child between 0-4 years, one between 5-17 years, one active duty and one spouse ages 18-44 years, and two adults over the age of 45.



Influenza-Associated Hospitalization Reports

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

Bacterial Coinfections

- One coinfection was identified during Week 3; an outpatient nonrespiratory *Escherichia* infection at NMC San Diego. [Details](#)
- Though overall case counts remain low, the proportion of lower respiratory specimens is higher than expected.

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	
Current Season (n=9)	3 (33.3)	2 (22.2)	4 (44.4)	4.3
Cumulative Baseline (n=53.5)	19 (35.5)	4.7 (8.7)	29.8 (55.8)	3.8

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

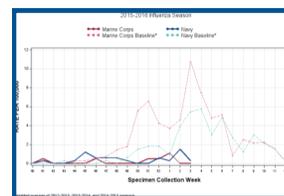
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Select Populations

Active Duty

- One laboratory positive influenza case was identified among active duty Navy service members during Week 3; this case was identified in an outpatient setting at NMC San Diego.
- 12 active duty service members (6 Navy, 6 Marines) were dispensed AVs (12 oseltamivir) during Week 3.



Status	Immunity Status	LAIV	IV	LAIV & IV	None	Total	Percent
Active Duty	Vaccinated, immune	2	8	1	-	11	39.3%
	Vaccinated, not immune	5	5	-	-	10	35.7%
	No vaccination record	-	-	-	7	7	25.0%
Total		7	13	1	7	28	-
Recruit	Vaccinated, immune	2	20	-	-	22	88.0%
	Vaccinated, not immune	2	-	-	-	2	8.0%
	No vaccination record	-	-	-	1	1	4.0%
Total		4	20	-	1	25	-

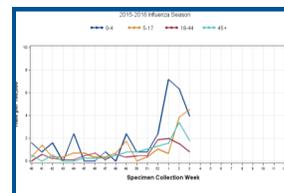
Recruits

- Two laboratory positive influenza cases among recruits during Week 3, one at James A Lovell FHCC and one at NMC San Diego (both influenza type A).
- One AV (oseltamivir) dispensed a recruit during Week 3 at James A Lovell FHCC.

Number of DON Active Duty and Recruit Cases since Week 40, 2015-2016 Season					
Case Type	Active Duty		Recruits		Total
	Navy	Marine Corps	Navy	Marine Corps	
Laboratory Positive	22	6	3	22	53
AV Prescriptions	124	56	3	70	253

Children

- The rate of laboratory positive influenza cases (per 100,000) is highest this week among children ages 5-17 years (4.5), followed by children 0-4 (4.0).
- The rate of AV prescriptions (per 100,000) is highest this week among children 5-17 years (2.0), followed by adults 45+ years (1.9) and children 0-4 years (1.3).
- 18 laboratory positive influenza cases were identified among children during Week 3, below baseline estimates.
 - All but two were identified from outpatient settings in eight different facilities; the inpatient cases were from NMC San Diego. There were five cases among children ages 0-4 and 13 among children ages 5-17.
- There were 27 AVs dispensed to children during Week 3, below baseline estimates for children.
 - This week's cases (27 oseltamivir) include six 0-4 year old children and 21 children ages 5-17 years. Most (6) were dispensed from NMC San Diego followed by NH Camp Pendleton (4). Two dispensed in inpatient settings.



In the News

- Influenza activity increased slightly in the United States. [Details](#)
- One additional laboratory-confirmed case of human infection with avian influenza A(H5N6) virus in China. [Details](#)

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