



Influenza Situation Report: 2015-2016 Season

Department of the Navy

Week 1 (3 January to 9 January 2016)

Overall Summary

Overall laboratory, pharmacy, and influenza-like-illness trends are below baseline. Impact among recruits returned to low levels.

Key Findings

Influenza Activity and Surveillance

Laboratory

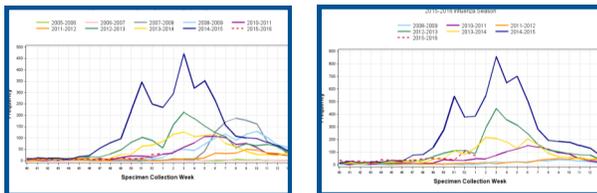
32 laboratory positive influenza cases were identified during Week 1, below baseline. [Details](#)

Antivirals (AVs)

71 AV medications were dispensed in Week 1, below baseline. [Details](#)

Influenza-Like Illness (ILI)

Overall, 5.9% of outpatient medical encounters were due to ILI, equal to baseline. [Details](#)



Severity Indicators

Inpatient

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

Coinfections

There were two nonrespiratory bacterial coinfections identified among laboratory positive cases during Week 1. [Details](#)

Select Populations

Active Duty and Recruits

In Week 1, there were three laboratory positive cases and 19 dispensed AV prescriptions among active duty personnel. Among recruits, there were eight 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: 91.7%
Marine Corps: 91.3%
US Fleet Forces: 97.4%

[View Table](#)

Data source: MRRS, current as of 11 Jan 2016.

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

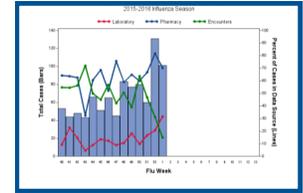
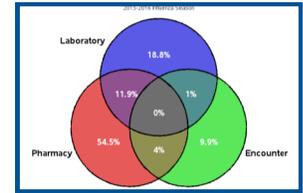


Influenza Activity and Surveillance

Overall Burden

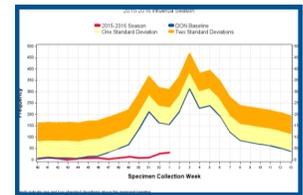
The estimated burden of influenza across the DON combines three major sources of data: certified laboratory results, antiviral pharmacy transactions, and medical encounters with influenza-specific diagnoses.

- During Week 1, there were 101 DON cases identified in one or more data sources; pharmacy captured the highest proportion of cases (54.5%). No cases were identified in all three sources.
- Since Week 40, there have been 947 DON cases identified in at least one of the three data sources.



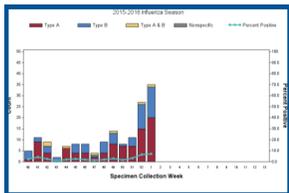
Laboratory Cases

- 32 laboratory positive influenza cases were identified during Week 1 (20 type A, 11 type B, 1 type A&B); below baseline estimates.
- Most common facilities this week: NMC San Diego (19), NH Camp Pendleton (3), AMC Tripler-Shafter (3).
- Since Week 40, 158 laboratory positive cases were identified among DON beneficiaries. Top facilities thus far: NMC San Diego (46), NH Lemoore (17), NH Camp Lejeune (12), and NH Camp Pendleton (10).



Specimen Positivity

- 7.1% of all influenza specimens tested during Week 1 were positive, lower than last season (23.1%).
- When grouped by parent facility, 13 (46.4%) locations tested more than ten specimens. Five facilities had positive results; NH Camp Pendleton (21.4%) had the highest percent positive laboratory specimens.

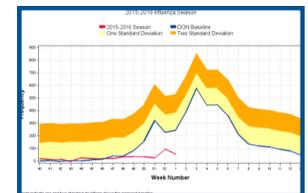


Test Types among Positive Influenza Specimens, n (%)				
	Rapid	Culture	PCR	Total
Week 51	9 (81.8)	0 (0.0)	2 (18.2)	11
Week 52	17 (63.0)	1 (3.7)	9 (33.3)	27
Week 1	13 (37.1)	1 (3.7)	19 (54.3)	35
Season	94 (59.5)	18 (11.4)	46 (29.1)	158

Antiviral Prescriptions

- 71 antiviral prescriptions were dispensed during Week 1.
- Most common facilities this week: NMC San Diego (22), NH Camp Pendleton (12), NH Pensacola (9).
- Since Week 40, the majority (98.2%) of prescriptions were for Oseltamivir.

Antiviral Medications Dispensed to DON Beneficiaries, n (%)					
	Amantadine	Oseltamivir	Rimantadine	Zanamivir	Total
Week 1	0 (0.0)	71 (100.0)	0 (0.0)	0 (0.0)	71
Season	11 (1.8)	603 (98.2)	0 (0.0)	0 (0.0)	614



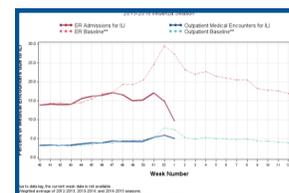
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Syndromic Surveillance

Influenza-Like Illness (ILI)

- The percent of medical encounters that included an ILI diagnosis during Week 52 (lagged due to data availability):
 - 5.9% of outpatient (below baseline)
 - 15.0% of ER (below baseline)
- When grouped by parent facility, 24 DON facilities (85.7%) experienced an increase in the proportion of outpatient ILI visits during Week 52; four facilities experienced an increase above 50% (NH Guantanamo Bay, NH Bremerton, NH Naples, James A Lovell FHCC).



Severity Indicators

Inpatient Laboratory

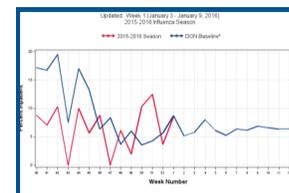
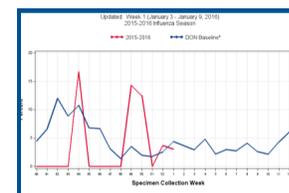
- One laboratory case (3.1%) was identified in an inpatient setting during Week 1.
- This case was a child beneficiary under the age of 5, type B positive, at NMC San Diego.

Inpatient Pharmacy

- Six (8.5%) AV prescriptions were in the inpatient setting during Week 1.
- This week's inpatient cases were two active duty service members, three family member beneficiaries, and one uncategorized sponsor.

Influenza-Associated Hospitalization Reports

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



Bacterial Coinfections

- Two coinfections were identified during Week 1; an outpatient nonrespiratory *Escherichia* and an outpatient nonrespiratory *Streptococcus*. [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=7)	2 (28.6)	2 (28.6)	3 (42.9)	4.7
Cumulative Baseline (n=32)	9.8 (30.7)	2.8 (8.9)	19.3 (60.4)	3.6

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

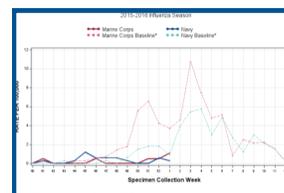
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Select Populations

Active Duty

- Three laboratory positive influenza cases were identified among active duty service members during Week 1; these cases were identified in outpatient settings at NMC San Diego (2) and NH Twentynine Palms (1).
- 19 active duty service members (13 Navy, 6 Marines) were dispensed AVs (all oseltamivir) during Week 1; seven were at NMC San Diego and the remaining 12 at 11 different facilities.



Status	Immunity Status	Vaccine Type				Total	Percent
		LAIV	IV	LAIV & IV	None		
Active Duty	Vaccinated, immune	-	4	1	-	5	26.3%
	Vaccinated, not immune	5	5	-	-	10	52.6%
	No vaccination record	-	-	-	4	4	21.1%
Total		5	9	1	4	19	
Recruit	Vaccinated, immune	-	11	-	-	11	100.0%
	Vaccinated, not immune	-	11	-	-	11	-
Total			11			11	

LAIV/live-attenuated influenza vaccine (intranasal), IV/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.

Recruits

- There were 8 laboratory positive influenza cases among recruits during Week 1, all type A positive from an outpatient setting at NMC San Diego.
- One AV (oseltamivir) was dispensed to a recruit during Week 1 at NMC San Diego.

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	16	6	0	19	41
AV Prescriptions	103	43	2	68	216

Children

- The rate of laboratory positive influenza cases (per 100,000) is highest among children ages 0-4 years (7.2), followed by adults 18-44 (1.88).
- The rate of AV prescriptions (per 100,000) is low for children ages 0-4 (0.4) and 5-17 (0.0) in comparison to adults 18-44 (3.1), reflected by this week's trends in prescriptions for recruits.
- 11 laboratory positive influenza cases were identified among children during Week 1, below baseline estimates.
 - Eight children ages 0-4 were identified in outpatient settings at six different facilities and one in an inpatient setting at NMC San Diego; two children aged 5-17 were identified in outpatient settings at NMC San Diego.
- There were 13 AVs dispensed to children during Week 1, below baseline estimates for children.
 - This week's cases (all oseltamivir) were nine 0-4 year old children and four 5-17 year old children at seven different facilities. Two were dispensed in inpatient settings.



In the News

- Two additional laboratory confirmed cases of human infection with avian influenza A(H5N6) virus in China. [Details](#)
- Avian flu strikes more flocks in France, Nigeria, Taiwan. [Details](#)
- CDC reports outpatient visits for influenza-like illness was above the national baseline during the flu week ending January 2. [Details](#)

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