



Influenza Situation Report: 2015-2016 Season

Department of the Navy

Week 31 (31 July to 06 August 2016)

Overall Summary

Influenza activity is very low; no laboratory cases were identified during Week 31. Additionally, pharmacy and ILI indicators are at or below baseline. No cases of influenza were identified among children or activity duty and recruit service members.

Key Findings

Influenza Activity and Surveillance

Laboratory

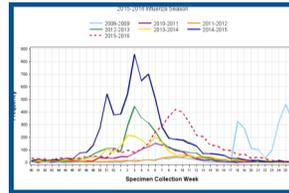
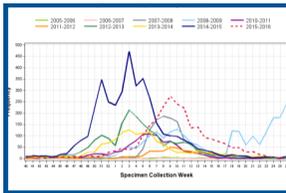
No laboratory positive influenza cases were identified during Week 31. [Details](#)

Antivirals (AVs)

No AV prescriptions were dispensed in Week 31. [Details](#)

Influenza-Like Illness (ILI)

Overall, 2.1% of outpatient medical encounters were due to ILI, at baseline. [Details](#)



Active Duty Vaccination Rates

Vaccination coverage reports for the 2016-2017 influenza season will resume in October.

Severity Indicators

Inpatient

No inpatient laboratory positive cases were identified. No inpatient antiviral prescriptions were dispensed. No inpatient influenza case reports were identified in DRSi. [Details](#)

Coinfections

Two bacterial coinfections were identified among laboratory positive cases during Week 31. [Details](#)

Select Populations

Active Duty and Recruits

No active duty or recruit laboratory cases were identified. No AVs were dispensed to activity duty or recruit service members. [Details](#)

NHRC surveillance reports febrile respiratory illness rates were at elevated rates at MCRD San Diego for Week 30. [Details](#)

Children

No influenza positive laboratory cases or AV prescriptions were identified among children. [Details](#)

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

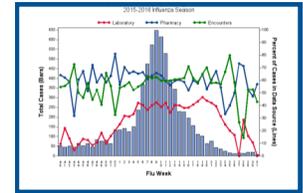
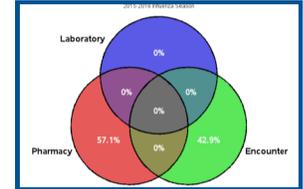


Influenza Activity and Surveillance

Overall Burden

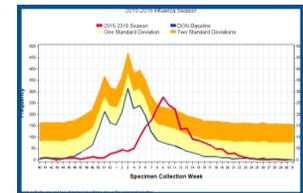
The estimated burden of influenza across the DON combines three major sources of data: certified laboratory results, antiviral pharmacy transactions, and medical encounters with influenza-specific diagnoses.

- During Week 31, seven DON cases were identified in one or more data sources; no cases were identified in laboratory data, four were identified in pharmacy and three were identified in encounter data. All cases were only identified in one source.
- Since Week 40, there have been 6,955 DON cases identified in at least one of the three data sources.



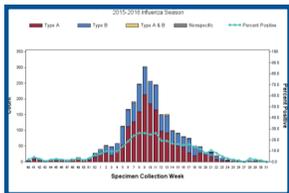
Laboratory Cases

- No laboratory positive cases were identified during Week 31.
- Since Week 40, 2,470 laboratory positive cases were identified among DON beneficiaries. Top three facilities thus far: NMC San Diego (456), NH Jacksonville (245), NH Camp Pendleton (174).



Specimen Positivity

- No specimens tested positive for influenza during Week 31.
- When grouped by parent facility, two locations (7.1%) tested more than ten specimens. None of these facilities (NH Camp Pendleton and NMC San Diego) had any positive specimens.

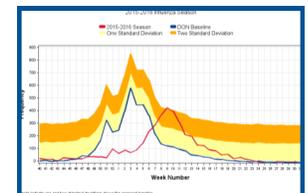


Test Types among Positive Influenza Specimens, n (%)				
	Rapid	Culture	PCR	Total
Week 29	2(66.7)	0(0.0)	1 (33.3)	3
Week 30	1(50.0)	1(50.0)	0(0.0)	2
Week 31	0(0.0)	0(0.0)	0(0.0)	0
Season	1624(59.9)	312 (11.5)	773 (28.5)	2,709

Antiviral Prescriptions

- Four antiviral prescriptions (all oseltamivir) were dispensed during Week 31, below baseline.
- This week four facilities had one prescription each (NH Pensacola, NHC Annapolis, NHC Hawaii, and NMC San Diego).
- Since Week 40, the majority (98.9%) of prescriptions were for oseltamivir.

Antiviral Medications Dispensed to DON Beneficiaries, n (%)					
	Amantadine	Oseltamivir	Rimantadine	Zanamivir	Total
Week 31	0(0.0)	4(100.0)	0 (0.0)	0 (0.0)	4
Season	48(1.1)	4,255 (98.9)	0 (0.0)	0 (0.0)	4,303



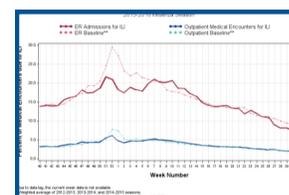
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Syndromic Surveillance

Influenza-Like Illness (ILI)

- The percent of medical encounters that included an ILI diagnosis during Week 30 (lagged due to data availability):
 - 2.1% of outpatient encounters (at baseline)
 - 7.5% of ER admissions (below baseline)
- When grouped by parent facility, 17 DON facilities (60.7%) experienced an increase in the proportion of outpatient ILI visits during Week 30 compared to the previous week.
- Four facilities experienced an increase above 25%: NH Rota, NHC Annapolis, NHC Cherry Point and NH Sigonella.



Severity Indicators

Inpatient Laboratory

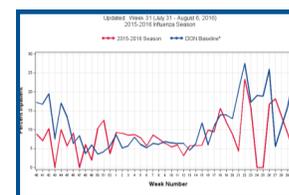
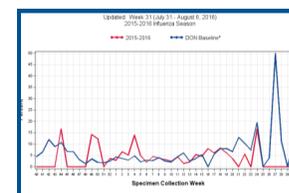
- No influenza positive laboratory cases were identified in the inpatient setting during Week 31.

Inpatient Pharmacy

- No influenza AVs were prescribed in the inpatient setting during Week 31.

Influenza-Associated Hospitalization Reports

- No influenza cases were reported to DRSi during Week 31.



Bacterial Coinfections

- Two coinfections were identified during Week 31. [Details.](#)
- The cumulative coinfection case count is above baseline for the season.

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=108)	45(41.7)	12 (13.0)	50(46.3)	4.4
Cumulative Baseline (n=105.7)	39.2 (37.1)	11 (10.4)	55.5 (52.5)	3.9

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

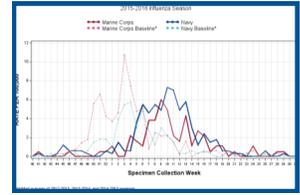
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Select Populations

Active Duty

- No laboratory positive flu cases were identified among active duty service members.
- No active duty service members were dispensed AVs.



Recruits

- No laboratory positive influenza cases were identified among recruits during Week 31.
- No AVs were dispensed to recruits during Week 31.

Status	Immunity Status	LAV	IV	LAV & IV	None	Total	Percent
Active Duty	Vaccinated; Immune	84	165	5	-	254	80.6%
	Vaccinated; not immune	7	13	-	-	20	6.3%
	No vaccination record	-	-	-	41	41	13.0%
Total		91	178	5	41	315	-
Recruit	Vaccinated; Immune	22	25	-	-	47	44.8%
	Vaccinated; not immune	18	10	-	-	28	26.7%
	No vaccination record	-	-	-	30	30	28.6%
Total		40	35	-	30	105	-

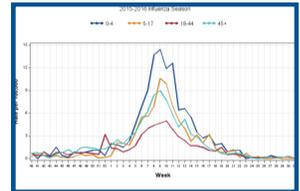
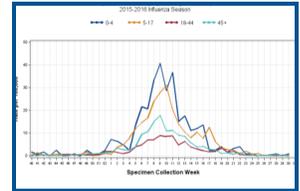
LAV=live-attenuated influenza vaccine (intranasal), IV=inactivated influenza vaccine (injection)

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	230	85	21	84	420
AV Prescriptions	548	190	9	120	867

Children

- No positive laboratory cases were identified among children during Week 31.
- No AV prescriptions were dispensed to children during Week 31.



In the News

- Two Michigan residents tested positive for variant H3N2 influenza (swine flu) in early August. Both residents had contact with swine at a county fair. These cases may represent the first swine flu cases in the US in 2016. [Details](#)

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