

DON Influenza SITREP

2014-2015 Influenza Season

Week 4 (25 January 2015 — 31 January 2015)

Influenza Activity and Surveillance

Laboratory:

There were 274 laboratory positive influenza results among DON beneficiaries during Week 4, slightly less than the previous week yet remains above the seasonal baseline. **More**

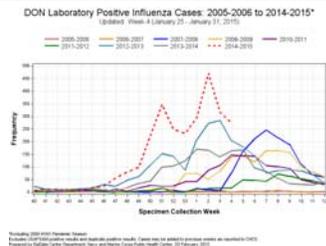
More

Antivirals:

Influenza-specific antivirals (AV) prescriptions increased since the previous week. AV prescriptions in Week 4 were *more than three times* the seasonal baseline; a total of 671 AV medications were prescribed to DON beneficiaries during Week 4. **More**

Influenza-Like Illness:

Overall, 5.9% of outpatient medical encounters were due to influenza-like illness (ILI); this was comparable to the seasonal baseline. **More**



Severity Indicators

Inpatient:

Five of the 36 inpatient influenza tests performed during Week 4 were positive. Twenty-seven inpatient AV prescriptions were dispensed this week. One inpatient case was reported to DRSi this week. **More**

Coinfections:

There were 13 bacterial coinfections identified among DON beneficiaries since our last report. **More**

Vaccination

92.7% of Navy and 90.0% of Marine Corps active duty service members have received an influenza vaccine (as of 31 January 2015). **More**

Select Populations

Active Duty & Recruits:

In Week 4, 24 Navy and 13 Marine Corps active duty service members had laboratory positive influenza results. Three recruits (1 Navy, 2 Marine Corps) had positive influenza laboratory tests. **More**
NHRC reports febrile respiratory illness (FRI) rates at Navy and Marine Corps recruit training facilities were at or below expected values during Week 3. **More**

Children:

Laboratory influenza rates in the 0-4 and 5-17 age groups were 34.7 and 34.8 per 100,000, respectively. There were 257 AV prescriptions dispensed to children this week, *four times* the seasonal baseline. **More**

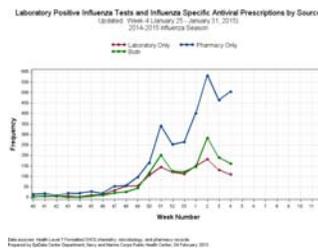
Contact Information: Gosia Nowak, 757-953-0979, gosia.nowak@med.navy.mil ~ On the Web: <http://go.usa.gov/DtUC>



Case Identification:

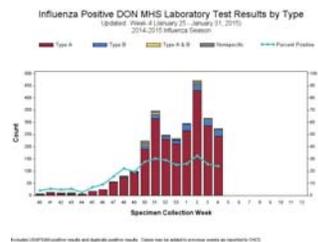
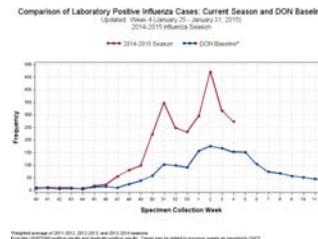
Two major sources of data are utilized to identify influenza activity across the DON, including certified laboratory results and antiviral pharmacy transactions.

- Since Week 40, 24.5% of all individuals with laboratory-confirmed influenza or prescription for influenza-specific antiviral were identified through both laboratory and pharmacy data sources.
- Among patients receiving AV prescriptions, 24.3% this week and 30.9% this season had positive laboratory results.



Laboratory:

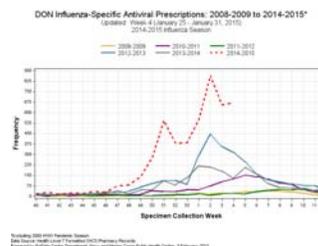
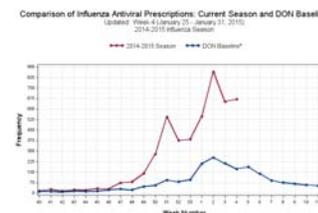
- There were 274 positive influenza laboratory results identified among DON beneficiaries in Week 4 (243 type A, 28 type B, and 3 type A & B).
 - The number of cases this week has slightly declined since the previous week but remains well above baseline.
 - Approximately 24% of all influenza tests performed were positive, compared to 14% during Week 4 of last season. The majority of laboratory positives were identified using rapid (71.2%) or PCR (22.6%) tests.
- The most laboratory positive cases this week occurred at NMC San Diego (58), NH Bremerton (32), NH Camp Pendleton (20), and NHC Annapolis (18).
- Since Week 40, 2,735 positive laboratory results have been identified among DON beneficiaries; NMC San Diego has the most cumulative cases (351), followed by NH Jacksonville (261) and NH Camp Lejeune (250).



Proportion of Testing Types among Positive Influenza Tests					
	Rapid	Culture	PCR	DFA	Unspecified
Week 4	71.2%	6.2%	22.6%	0.0%	0.0%
Season	66.0%	11.7%	22.3%	0.0%	0.0%

Antivirals:

- There were 671 influenza-specific antiviral (AV) medications prescribed to DON beneficiaries this week (1 amantadine, 670 oseltamivir).
- Antiviral prescriptions during Week 4 slightly increased since the week prior, to *more than three times* the seasonal baseline.
- Approximately four percent (27) of the antiviral prescriptions during Week 4 were in the inpatient setting.
- There have been 4,797 AVs prescribed to DON beneficiaries this season (4,776 oseltamivir, 21 amantadine).

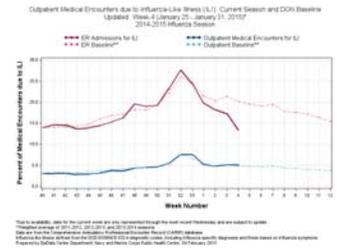


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Influenza-Like Illness:

- During Week 4, 5.2% of outpatient medical encounters among DON beneficiaries included ICD-9-CM diagnostic codes for influenza-like illness (ILI); this was slightly above the seasonal baseline.
- Among ER visits, 13.5% of medical encounters contained ILI ICD-9-CM diagnostic codes, which was well below the seasonal baseline.



Immunizations

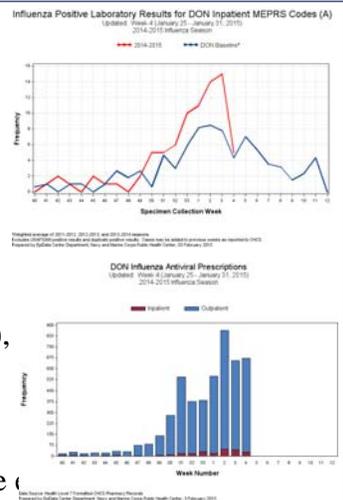
Vaccination Coverage:

- 92.7% of Navy and 90.0% of Marine Corps active duty service members have received an influenza vaccine. Reserve vaccination rates are slightly below the rates of active duty service members (92.5% Navy, 85.8% Marine Corps). **More**
- A total of 442 laboratory positive influenza cases have been identified among DON active duty service members since Week 40; the majority (84.6%) were vaccinated at least 14 days prior to infection. **More**

Severity Indicators

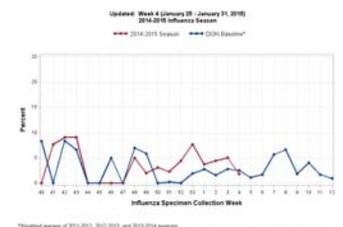
Inpatient Surveillance:

- There were 36 inpatient influenza tests performed among DON beneficiaries in Week 4; 5 (13.9%) were positive.
 - The majority of this week's inpatient cases occurred at NMC San Diego (4) and were positive for influenza A (4).
- Twenty-seven of the antiviral prescriptions during Week 4 were in the inpatient setting.
 - The majority of inpatient prescriptions were dispensed at NMC San Diego (9) and NMC Portsmouth (4).
 - Inpatient AVs were dispensed to patients across all age groups: 0-4 (9), 5-17 (2), 18-44 (4), 45+ (12).
- There was one influenza-associated hospitalization reported to DRSi this week.
 - The case (18-44 years old, reserve spouse) was reported from WRNMMC; this patient was previously identified from our laboratory and pharmacy surveillance (



Coinfections:

- Since our last report, 13 bacterial coinfections were identified among DON laboratory positive influenza patients; the percent of patients with a bacterial coinfection remains comparable to the seasonal baseline.
- This week, three outpatient upper respiratory infections were identified at three different facilities (all *Streptococcus*), and four lower respiratory infections were identified at four different facilities (three *Staphylococcus*, one *Pseudomonas*).
- One of the four lower respiratory infections was an inpatient case at NMC Portsmouth.



[Click here](#) for a complete list of coinfections identified since our last report.

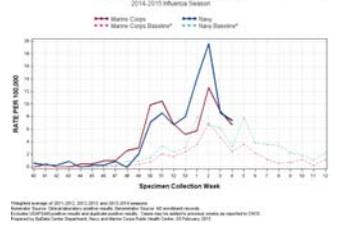
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Active Duty

- There were 37 laboratory positive influenza results among DON active duty service members in Week 4 (35 type A, 1 type B, 1 types A & B). All active duty cases this week were at outpatient facilities.
 - The largest number of cases were identified at NMC San Diego (7) and NH Yokosuka (5). Remaining cases were spread across 16 facilities with one to three cases each.
 - The majority (33) of the 37 DON active duty influenza cases during Week 4 were vaccinated at least 14 days prior to infection; four had no record of vaccination.
- There were 126 AVs dispensed (all oseltamivir) to active duty service members during Week 4, increasing from 103 dispensed last week.

Influenza Positive DON MHS Laboratory Test Results by Service (Active Duty)



Vaccination Status of DON Active Duty and Recruit Influenza Cases, 2014-2015 Season							
Status	Immunity Status	Vaccine Type			Total	Percent	
		LAV	IV	Unspecified/Recombined			
Active Duty	Vaccinated/immune	119	190	6	11	274	84.6%
	Vaccinated, not immune	4	12	1	-	23	5.2%
	No vaccination record	-	-	-	-	45	10.2%
Total		123	214	7	11	442	
Recruit	Vaccinated/immune	29	8	-	3	40	59.7%
	Vaccinated, not immune	13	1	-	-	14	20.9%
	No vaccination record	-	-	-	-	13	19.4%
Total		42	9	-	3	67	

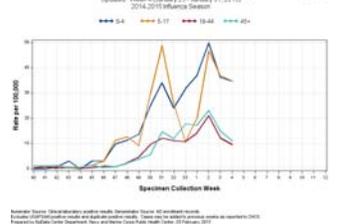
Recruits:

- One Navy and two Marine Corps recruits (all type A) had positive laboratory tests this week.
 - Two Marine recruits were identified in an outpatient setting at NH Beaufort. The Navy recruit was identified in an outpatient setting at NHC New England.
 - There were six AVs dispensed to recruits during Week 4 (all oseltamivir) at seven different facilities; this number largely declined compared to last week (118 AV's dispensed to recruits during Week 2, almost all of which were to Marines at NH Beaufort – MCRD Parris Island).

Children:

- The rates of positive influenza results in the 0-4 and 5-17 age groups in Week 4 were 34.7 and 34.8 per 100,000, respectively.
- There were 257 AV medications prescribed to children during Week 4, slightly more than 242 in Week 3. AV medications prescribed to children this week are *four times* the seasonal baseline.

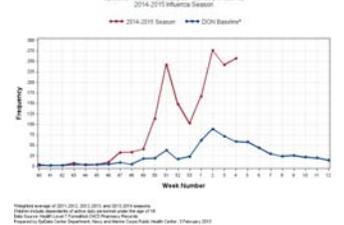
Influenza Positive DON MHS Laboratory Test Results by Beneficiary Age



Other Age Groups:

- During Week 4, laboratory influenza rates among the 18-44 and 45+ age groups were 9.7 and 11.2 per 100,000, respectively.

Comparison of Influenza Antiviral Prescriptions in Children: Current Season and DON Baseline



In the News

- Meta-analysis: Oseltamivir linked to modest improvements in adults' flu symptoms. [More](#)
- Two cases of avian influenza A(H7N9) discovered in Canada. [More](#)

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