

DON Influenza SITREP

2014-2015 Influenza Season
Week 3 (18 January 2015 — 24 January 2015)

Influenza Activity and Surveillance

Laboratory:

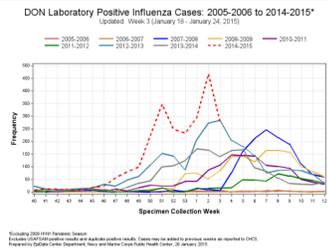
There were 278 laboratory positive influenza results among DON beneficiaries during Week 3, largely declining since last week (from 467 laboratory positive influenza results) but remaining above the seasonal baseline. **More**

Antivirals:

Influenza-specific antivirals (AV) also declined compared to the previous week but still remain *almost three times* the seasonal baseline; a total of 619 AV medications were prescribed to DON beneficiaries during Week 3. **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:

Eleven of the 73 inpatient influenza tests performed during Week 3 were positive. Forty-two inpatient AV prescriptions were dispensed this week. One inpatient case was reported to DRSi this week. **More**

Coinfections:

There were 17 bacterial coinfections identified among DON beneficiaries since our last report. **More**

Vaccination

92.3% of Navy and 89.1% of Marine Corps active duty service members have received an influenza vaccine (as of 24 January 2015). **More**

Select Populations

Active Duty & Recruits:

In Week 3, 24 Navy and 16 Marine Corps active duty service members had laboratory positive influenza results. Three recruits (1 Navy, 2 Marine Corps) had a positive influenza laboratory test. **More**
NHRC reports febrile respiratory illness (FRI) rates at Navy and Marine Corps recruit training facilities were at or below expected values during Week 2. **More**

Children:

Laboratory influenza rates in the 0-4 and 5-17 age groups were 30.2 and 34.1 per 100,000, respectively. There were 230 AV prescriptions dispensed to children this week, *three times* the seasonal baseline. **More**

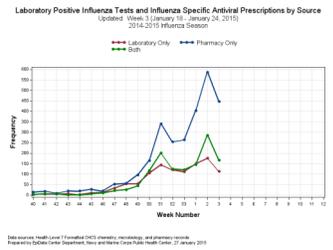
Contact Information: Gosia Nowak, 757-953-0979, gosia.nowak@med.navy.mil ~ On the Web: <http://go.usa.gov/DtUC>



Case Identification:

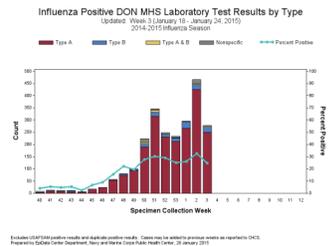
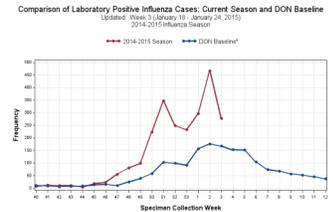
Two major sources of data are utilized to identify influenza activity across the DON, including certified laboratory results and antiviral pharmacy transactions.

- Since Week 40, 24.9% 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, 27.0% this week and 31.7% this season had positive laboratory results.



Laboratory:

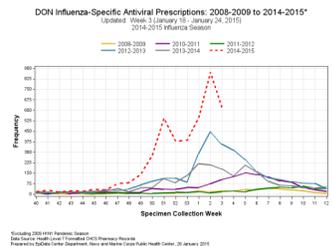
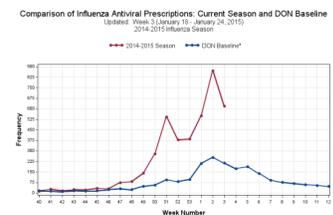
- There were 278 positive influenza laboratory results identified among DON beneficiaries in Week 3 (250 type A, 22 type B, 1 type A&B, 5 non-specific).
 - The number of cases has declined since the previous week but remains above the baseline.
 - Approximately 25% of all influenza tests performed were positive; this is almost twice the positivity during Week 3 of last season. The majority of laboratory positives were rapid (71.9%) or PCR (21.9%) tests.
- The most laboratory positive cases occurred at NMC San Diego (53), NH Jacksonville (26), San Antonio MMC (18), NH Yokosuka (18), and NH Bremerton (17).
- Since Week 40, 2,418 positive laboratory results have been identified among DON beneficiaries; NMC San Diego has the most cumulative cases (289), followed by NH Jacksonville (253), NH Camp Lejeune (242), and San Antonio MMC (123).



Proportion of Testing Types among Positive Influenza Tests					
	Rapid	Culture	PCR	DFA	Unspecified
Week 3	71.9%	6.1%	21.9%	0.0%	0.0%
Season	66.6%	11.4%	22.0%	0.0%	0.0%

Antivirals:

- There were 619 influenza-specific antiviral (AV) medications prescribed to DON beneficiaries this week (5 amantadine, 614 oseltamivir).
- Antiviral prescriptions during Week 3 declined compared to the previous week but remain *almost three times* the seasonal baseline.
- Approximately seven percent (42) of the antiviral prescriptions during Week 3 were in the inpatient setting.
- There have been 4,101 AVs prescribed to DON beneficiaries this season (4,081 oseltamivir, 20 amantadine).



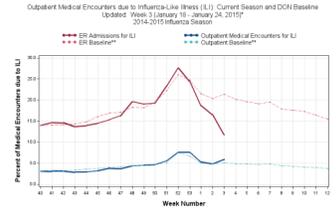
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Syndromic Surveillance

Influenza-Like Illness:

- During Week 3, 5.9% of outpatient medical encounters among DON beneficiaries included ICD-9-CM diagnostic codes for influenza-like illness (ILI); this was comparable to the seasonal baseline.
- Among ER visits, 11.8% of medical encounters contained ILI ICD-9-CM diagnostic codes, which was well below the seasonal baseline.



Immunizations

Vaccination Coverage:

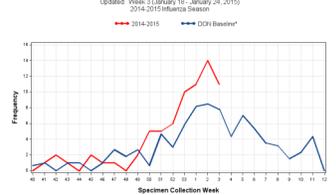
- 92.3% of Navy and 89.1% of Marine Corps active duty service members have received an influenza vaccine. Reserve vaccination rates are slightly below the rates of active duty service members (92.1% Navy, 85.6% Marine Corps). **More**
- A total of 397 laboratory positive influenza cases have been identified among DON active duty service members since Week 40; the majority (83.9%) were vaccinated at least 14 days prior to infection. **More**

Severity Indicators

Inpatient Surveillance:

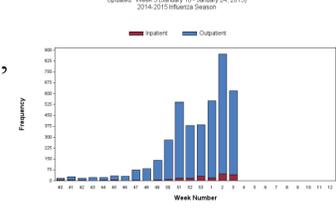
- There were 73 inpatient influenza tests performed among DON beneficiaries in Week 3; 11 (15.1%) were positive.
 - The majority of this week's inpatient cases were positive for influenza A (10) and ages 45+ (7).
- Forty-two of the antiviral prescriptions during Week 3 were in the inpatient setting.
 - The majority of inpatient prescriptions were dispensed at NM Portsmouth (13) and NMC San Diego (11).
 - Inpatient AVs were dispensed to patients across all age groups: 0-4 (6), 5-17 (1), 18-44 (10), 45+ (25).
- There was one influenza-associated hospitalization reported to DRSi this week.
 - The case (18-44 years old, retired sponsor) was reported from WRNMMC; this patient was identified from our laboratory and pharmacy surveillance efforts.

Influenza Positive Laboratory Results for DON Inpatient MEPRS Codes (A)



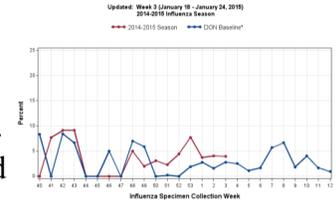
Weighted average of 2011-2012, 2012-2013, and 2013-2014 seasons

DON Influenza Antiviral Prescriptions



Coinfections:

- Since our last report, 17 bacterial coinfections were identified among DON laboratory positive influenza patients; the percent of patients with a bacterial coinfections remains comparable to the seasonal baseline.
- This week, seven outpatient upper respiratory infections were identified at seven different facilities (all *Streptococcus*), one inpatient lower respiratory infection was identified at NMC Portsmouth (*Staphylococcus*).



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

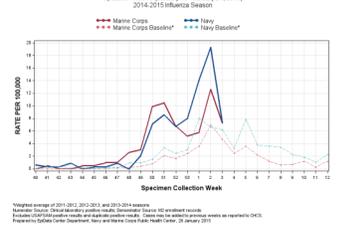
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Active Duty

- There were 40 laboratory positive influenza results among DON active duty service members in Week 3 (37 type A, 1 type B, 2 unknown); one was in an inpatient setting at NMC Portsmouth.
 - The largest number of cases were identified at NMC San Diego (7), NH Bremerton (5), and NH Camp Lejeune (4). Remaining cases were spread across 10 facilities with one to three cases each.
 - The majority (34) of the 40 DON active duty influenza cases during Week 3 were vaccinated at least 14 days prior to infection; six had no record of vaccination.
- There were 94 AVs dispensed (92 oseltamivir, 2 amantadine) to active duty service members during Week 3, declining from 147 dispensed last week.

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



Status	Immunity Status	Vaccine Type					Total	Percent
		LAIV	IV	Unspecified Formulation	LAIV & IV	None		
Active Duty	Vaccinated: immune	140	175	6	12	-	333	83.9%
	Vaccinated: not immune	4	17	1	-	-	22	5.5%
	No vaccination record	-	-	-	-	42	42	10.6%
Total		144	192	7	12	42	397	-
Recruit	Vaccinated: immune	27	7	-	3	-	37	59.7%
	Vaccinated: not immune	11	1	-	-	-	12	19.4%
	No vaccination record	-	-	-	-	13	13	21.0%
Total		38	8	-	3	13	62	-

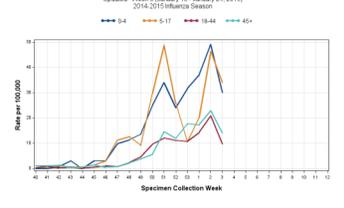
Recruits:

- One Navy and two Marine Corps recruits (2 type A, 1 type B) had positive laboratory tests this week.
 - Two Marine recruits were identified at NMC San Diego in both an inpatient and outpatient setting; the Navy recruit was identified in an outpatient setting at San Antonio MMC.
 - There were 9 AV's dispensed to recruits during Week 3 (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 3 declined to 30.2 and 34.1 per 100,000, respectively.
- There were 230 AV medications prescribed to children during Week 3; this number declined from 278 AV medications during Week 2 but still remains *three times* the seasonal baseline.

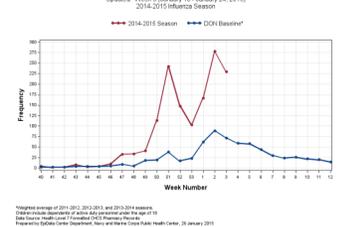
Influenza Positive DON MHS Laboratory Test Results by Beneficiary Age



Other Age Groups:

- During Week 3, laboratory influenza rates among the 18-44 and 45+ age groups also declined to 9.9 and 14.1 per 100,000, respectively.

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



In the News

- US flu activity last week showed some signs of decline but continued at an elevated pace, well above epidemic levels. [More](#)
- The first case of avian influenza A (H7N9) in a human in North America was confirmed in January 2015. [More](#)
- H5N8 avian flu outbreak recently struck a California turkey farm, killing 4,500 of 145,000 birds at the site. [More](#)

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