

DON Influenza SITREP

2014-2015 Influenza Season
Week 5 (1 February — 7 February 2015)

Influenza Activity and Surveillance

Laboratory:

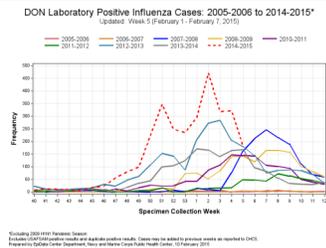
There were 179 laboratory positive influenza results among DON beneficiaries during Week 5, less than the previous week yet remains above the seasonal baseline. **More**

Antivirals:

A total of 417 AV medications were prescribed to DON beneficiaries during Week 5, decreasing since last week. AV prescriptions in Week 5 were *more than twice* the seasonal baseline. **More**

Influenza-Like Illness:

Overall, 5.4% of outpatient medical encounters were due to influenza-like illness (ILI); this was slightly above the seasonal baseline. **More**



Severity Indicators

Inpatient:

Four of the 43 inpatient influenza tests performed during Week 5 were positive. This week, nineteen inpatient AV prescriptions were dispensed, and two inpatient cases were reported to DRSi. **More**

Coinfections:

There were 10 bacterial coinfections identified among DON beneficiaries since our last report. **More**

Vaccination

93.0% of Navy and 90.4% of Marine Corps active duty service members have received an influenza vaccine (as of 7 February 2015).

More

Select Populations

Active Duty & Recruits:

In Week 5, 15 Navy and 6 Marine Corps active duty service members had laboratory positive influenza results. One recruit (Marine Corps) had 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 4. **More**

Children:

Laboratory influenza rates in the 0-4 and 5-17 age groups were 19.6 and 28.7 per 100,000, respectively. There were 189 AV prescriptions dispensed to children this week, *three times* the seasonal baseline. **More**

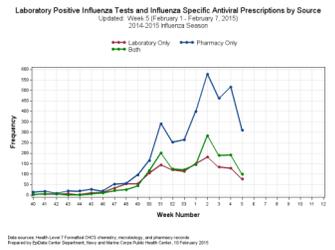
Contact Information: Gosia Nowak, 757-953-0979, gosia.nowak@med.navy.mil ~ On the Web: <http://go.usa.gov/DtUC>



Case Identification:

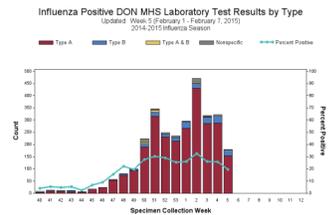
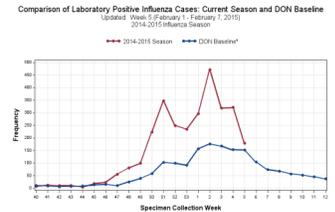
Two major sources of data are utilized to identify influenza activity across the DON, including certified laboratory results and antiviral pharmacy transactions.

- Since Week 40, 24.5% 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, 24.5% this week and 30.8% this season had positive laboratory results.



Laboratory:

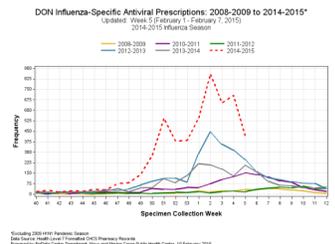
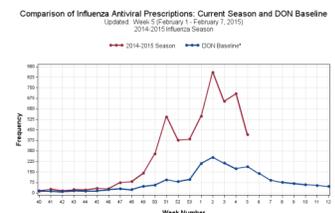
- There were 179 positive influenza laboratory results identified among DON beneficiaries in Week 5 (154 type A, 23 type B, 1 type A & B, 1 unspecified).
 - The number of cases this week has decreased since the previous week but remains slightly above baseline.
 - 19.6% of all influenza tests performed were positive, compared to 11.4% during Week 5 of last season.
- The most laboratory positive cases this week occurred at NMC San Diego (31) and NH Bremerton (20).
- Since Week 40, 2,966 positive laboratory results have been identified among DON beneficiaries; NMC San Diego has the most cumulative cases (396), followed by NH Jacksonville (272) and NH Camp Lejeune (256).



Proportion of Testing Types among Positive Influenza Tests					
	Rapid	Culture	PCR	DFA	Unspecified
Week 5	81.6%	8.4%	10.1%	0.0%	0.0%
Season	65.8%	12.2%	22.0%	0.0%	0.0%

Antivirals:

- There were 417 influenza-specific antiviral (AV) medications prescribed to DON beneficiaries this week (all oseltamivir).
- Antiviral prescriptions during Week 5 decreased since the week prior, but remain *more than twice* the seasonal baseline.
- During Week 5, 19 (4.6%) of all AV prescriptions were dispensed in the inpatient setting.
- There have been 5,242 AVs prescribed to DON beneficiaries this season (5,221 oseltamivir, 21 amantadine).



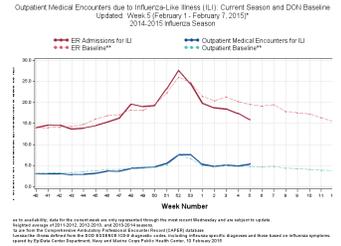
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Syndromic Surveillance

Influenza-Like Illness:

- During Week 5, 5.4% 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, 16.0% of medical encounters contained ILI ICD-9-CM diagnostic codes, which was below the seasonal baseline.



Immunizations

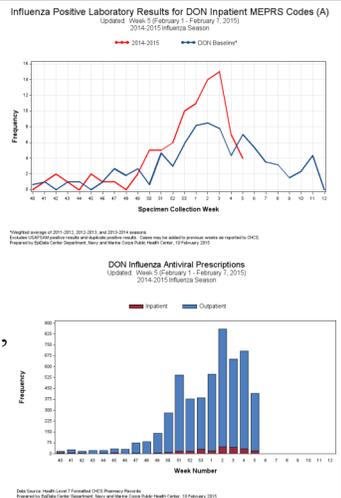
Vaccination Coverage:

- 93.0% of Navy and 90.4% 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 (92.9% Navy, 86.2% Marine Corps). **More**
- A total of 470 laboratory positive influenza cases have been identified among DON active duty service members since Week 40; the majority (84.9%) were vaccinated at least 14 days prior to infection. **More**

Severity Indicators

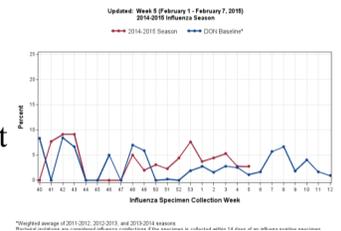
Inpatient Surveillance:

- There were 43 inpatient influenza tests performed among DON beneficiaries in Week 5; 4 (9.3%) were positive.
 - This week's cases were two spouses and a retired sponsor over age 45 at NMC San Diego (type A) and a 0-4 year old child at NH Guam (type A).
- Nineteen of the AV prescriptions during Week 5 were in the inpatient setting.
 - The majority of inpatient prescriptions were dispensed at NMC San Diego (5) and NMC Portsmouth (4).
 - Inpatient AVs were dispensed to patients across all age groups: 0-4 (3), 5-17 (3), 18-44 (3), 45+ (10).
- There were two influenza-associated hospitalizations reported to DRSi this week.
 - This week's cases, both at Triple AMC, were a 0-4 year old male child and a female spouse over age 45.
 - Both patients were previously identified from our laboratory surveillance and the spouse received an AV prescription.



Coinfections:

- Since our last report, 10 bacterial coinfections were identified among DON laboratory positive influenza patients; the percent of patients with a bacterial coinfection was above the seasonal baseline, but remains low.
- This week, seven outpatient upper respiratory infections were identified at five different facilities (6 *Streptococcus*, 1 *Staphylococcus*).
- One nonrespiratory coinfection (*Propionibacterium*) was an inpatient case at NMC San Diego.



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

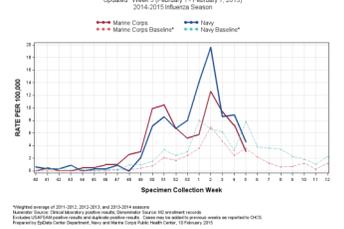
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Active Duty

- There were 21 laboratory positive influenza results among DON active duty service members in Week 5 (18 type A, 3 type B).
 - There were 15 Navy and six Marine Corps active duty cases, all in outpatient facilities.
 - The largest number of cases were identified at NHC Quantico (6) and NH Lemoore (3). Remaining cases were spread across 10 facilities with one to two cases each.
 - The majority (18) of the 21 DON active duty influenza cases during Week 5 were vaccinated at least 14 days prior to infection; three had no record of vaccination.
- There were 64 AVs dispensed (all oseltamivir) to active duty service members during Week 5, decreasing compared to last week.

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



Status	Intensity Status	Vaccine Type						Total	Percent
		LAV	IV	Unspecified Formulation	LAV & IV	None			
Active Duty	Vaccinated: immune	171	207	7	14	-	399	84.9%	
	Vaccinated: not immune	4	20	1	-	-	25	5.3%	
	No vaccination record	-	-	-	-	-	46	9.8%	
Total		175	227	8	14	40	470		
Recruit	Vaccinated: immune	29	8	-	3	-	40	58.8%	
	Vaccinated: not immune	14	1	-	-	-	15	22.1%	
	No vaccination record	-	-	-	-	-	13	19.1%	
Total		43	9	-	3	13	68		

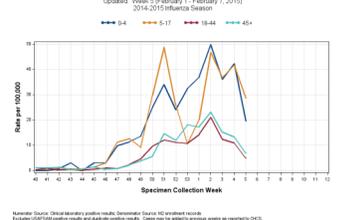
Recruits:

- One Marine Corps recruit (type A) had positive laboratory test this week in an outpatient setting at NH Beaufort.
- There were four AVs dispensed to recruits during Week 5 (all oseltamivir) at NMC San Diego (2), Buckley AFB, and NH Beaufort.

Children:

- The rates of positive influenza results in the 0-4 and 5-17 age groups in Week 5 were 19.6 and 28.7 per 100,000, respectively.
- There were 189 AV medications prescribed to children during Week 5, decreasing since last week. AV medications prescribed to children this week are *three times* the seasonal baseline.

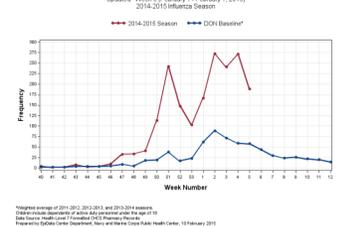
Influenza Positive DON MHS Laboratory Test Results by Beneficiary Age



Other Age Groups:

- During Week 5, laboratory influenza rates among the 18-44 and 45+ age groups were 4.9 and 6.9 per 100,000, respectively.

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



In the News

- Interim guidance released on influenza vaccination and post-exposure chemoprophylaxis among patients undergoing 21 day active Ebola monitoring. [More](#)
- Experts in the UK believe influenza is driving the current one-third increase over the expected death rate for this time of year. [More](#)
- CDC surveillance shows that influenza activity decreased slightly, but remains widespread with key severity indicators still high. [More](#)

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