

DON Influenza SITREP

2014-2015 Influenza Season
Week 9 (1 March — 7 March 2015)

Influenza Activity and Surveillance

Laboratory:

There were 78 laboratory positive influenza results among DON beneficiaries during Week 9, less than the previous week yet slightly above the seasonal baseline. [More](#)

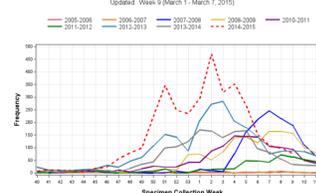
Antivirals:

A total of 162 AV medications were dispensed to DON beneficiaries during Week 9, decreasing since last week, yet more than twice the seasonal baseline. [More](#)

Influenza-Like Illness:

Overall, 4.9% of outpatient medical encounters were due to influenza-like illness (ILI); this was slightly above the seasonal baseline. [More](#)

DON Laboratory Positive Influenza Cases: 2005-2006 to 2014-2015*



Severity Indicators

Inpatient:

One of the 29 inpatient influenza tests performed during Week 9 were positive. This week, eight inpatient AV prescriptions were dispensed, and one inpatient case was reported to DRSi. [More](#)

Coinfections:

There were no bacterial coinfections identified among DON beneficiaries since our last report. [More](#)

Vaccination

94.0% of Navy and 92.2% of Marine Corps active duty service members have received an influenza vaccine (as of 7 March 2015).

[More](#)

Select Populations

Active Duty & Recruits:

In Week 9, eight Navy and five Marine Corps active duty service members had laboratory positive influenza results. There were no laboratory positive influenza tests among DON recruits. [More](#)
NHRC reports febrile respiratory illness (FRI) rates at Navy and Marine Corps recruit training facilities were at or below expected values during Week 8. [More](#)

Children:

Laboratory influenza rates in the 0-4 and 5-17 age groups were 10.6 and 8.5 per 100,000, respectively. There were 57 AV prescriptions dispensed to children this week, almost *two times* the seasonal baseline. [More](#)

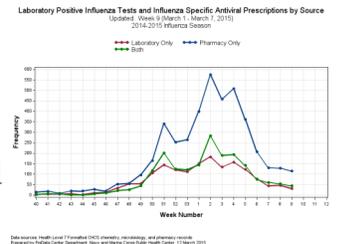
Contact Information: Gosia Nowak, 757-953-0979, gosia.nowak@med.navy.mil ~ On the Web: <http://go.usa.gov/DtUC>



Case Identification:

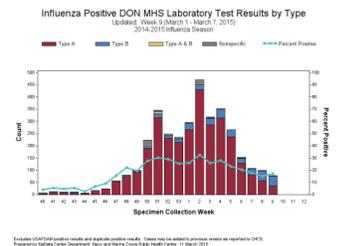
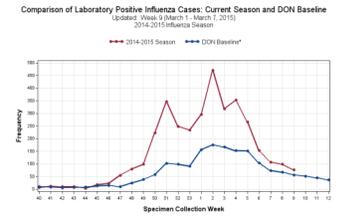
Two major sources of data are utilized to identify influenza activity across the DON, including certified laboratory results and antiviral pharmacy transactions.

- Since Week 40, 24.3% 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, 28.4% this week and 30.8% this season had positive laboratory results.



Laboratory:

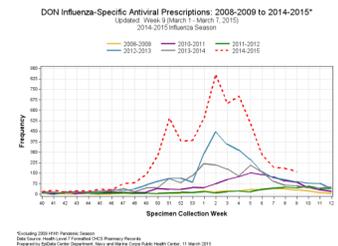
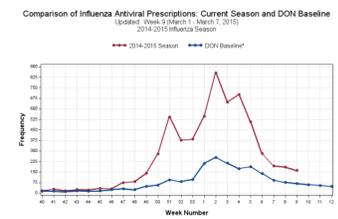
- There were 78 positive influenza laboratory results identified among DON beneficiaries in Week 9 (36 type A, 40 type B, 1 type A & B, 1 unspecified).
 - The number of cases this week has decreased since the previous week but remains slightly above baseline.
 - 17.3% of all influenza tests performed were positive, compared to 4.5% during Week 9 of last season.
- The most laboratory positive cases this week occurred at NH Jacksonville (14), NMC San Diego (9) and NH Pensacola (9).
- Since Week 40, 3,522 positive laboratory results have been identified among DON beneficiaries; NMC San Diego has the most cumulative cases (488), followed by NH Jacksonville (312) and NH Camp Lejeune (273).



Proportion of Testing Types among Positive Influenza Tests					
	Rapid	Culture	PCR	DFA	Unspecified
Week 9	88.5%	3.8%	7.7%	0.0%	0.0%
Season	63.7%	12.7%	23.6%	0.0%	0.0%

Antivirals:

- There were 162 influenza-specific antiviral (AV) medications prescribed to DON beneficiaries this week (all oseltamivir).
- Antiviral prescriptions during Week 9 decreased compared to last week, but remain more than twice the seasonal baseline.
- During Week 9, eight (4.9%) of all AV prescriptions were dispensed in the inpatient setting.
- There have been 6,141 AVs prescribed to DON beneficiaries this season (6,118 oseltamivir, 23 amantadine).

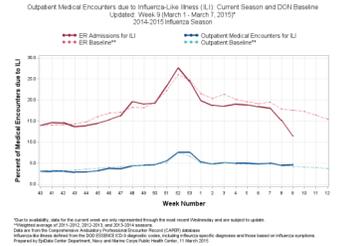


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Influenza-Like Illness:

- During Week 9, 4.9% 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, 11.5% of medical encounters contained ILI ICD-9-CM diagnostic codes, which was well below the seasonal baseline.



Immunizations

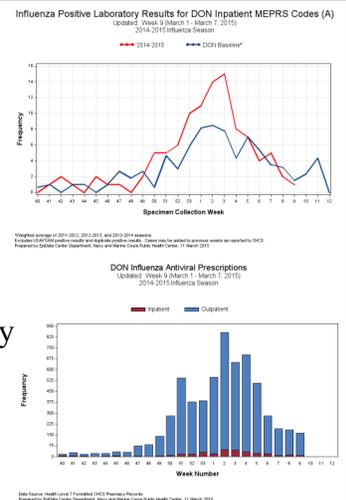
Vaccination Coverage:

- 94.0% of Navy and 92.2% of Marine Corps active duty service members have received an influenza vaccine. The Navy reserve vaccination rate (94.1%) is slightly above the active duty rate, while the Marine Corps reserve vaccination rate (87.9%) is below the active duty rate. **More**
- A total of 561 laboratory positive influenza cases have been identified among DON active duty service members since Week 40; the majority (86.5%) were vaccinated at least 14 days prior to infection. **More**

Severity Indicators

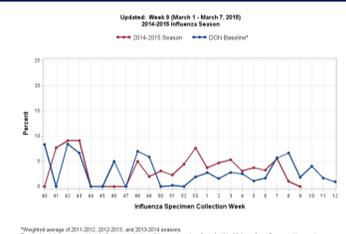
Inpatient Surveillance:

- There were 29 inpatient influenza tests performed among DON beneficiaries in Week 9; one (3.4%) was positive.
 - This week's inpatient case was a type A positive Navy retiree over the age of 45 at 81st Medical Group-Keesler.
- Eight of the AV prescriptions during Week 9 were in the inpatient setting.
 - This week, inpatient AVs were dispensed to adult patients only: ages 18-44 (3) and 45+ (5). Inpatients with AVs this week were mostly Navy (7); distributed among active duty (2), spouses (2), child (1), and other sponsors (3); and equally males and females (4 each).
- There was one influenza-associated hospitalization reported to DRSi this week.
 - This week's case was a female spouse over the age of 45 at NMC Portsmouth. This patient was previously identified from our laboratory surveillance and received an AV prescription.



Coinfections:

- Since our last report, there were no bacterial coinfections identified among DON laboratory positive influenza cases.



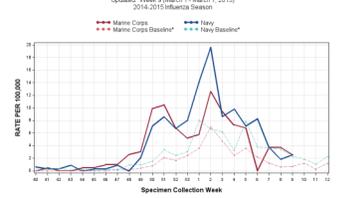
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Active Duty

- There were 13 laboratory positive influenza results among DON active duty service members in Week 9 (10 type A, 3 type B).
 - There were eight Navy and five Marine Corps active duty cases, all in outpatient facilities.
 - NH Pensacola had four and NH Camp Lejeune had three active duty cases this week. The remaining six cases were all at different facilities.
 - Eleven (84.6%) of the DON active duty influenza cases during Week 9 were vaccinated at least 14 days prior to infection. Two had no vaccination record.
- There were 26 AVs dispensed (all oseltamivir) to active duty service members during Week 9, less than 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	218	239	7	21	-	485	85.5%
	Vaccinated; not immune	4	23	1	1	-	29	5.2%
	No vaccination record	-	-	-	-	47	47	8.4%
Total		222	262	8	22	47	561	-
Recruit	Vaccinated; immune	35	9	-	3	-	47	60.3%
	Vaccinated; not immune	15	3	-	1	-	19	24.4%
	No vaccination record	-	-	-	-	12	12	15.4%
Total		50	12	-	4	12	78	-

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.
 Prepared by EpiData Center Department, Navy and Marine Corps Public Health Center, 12 March 2015

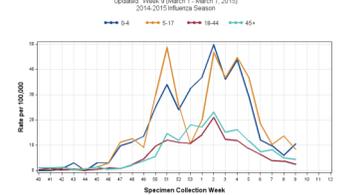
Recruits:

- There were no laboratory positive influenza tests among DON recruits in Week 9.
- There was one AV (oseltamivir) dispensed to a female Navy recruit during Week 9 at NMC San Diego.

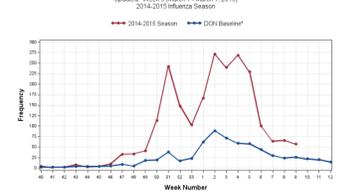
Children:

- The rates of positive influenza results in the 0-4 and 5-17 age groups in Week 9 were 10.6 and 8.5 per 100,000, respectively.
- There were 57 AV medications prescribed to children during Week 9, less than last week. AV medications prescribed to children this week are almost *two times* the seasonal baseline.

Influenza Positive DON MHS Laboratory Test Results by Beneficiary Age



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



Other Age Groups:

- During Week 9, laboratory influenza rates among the 18-44 and 45+ age groups were 2.6 and 4.5 per 100,000, respectively.

In the News

- Fifty-nine laboratory-confirmed cases of human infection with avian influenza A(H7N9) in China between January 21st and February 25th, 2015 [More](#)
- Bird flu mutating in China, threatens pandemic [More](#)

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