

DON Influenza SITREP

2014-2015 Influenza Season
Week 49 (30 November 2014 — 6 December 2014)

Influenza Activity and Surveillance

Laboratory:

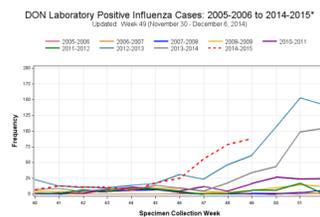
There were 88 laboratory positive influenza results among DON beneficiaries during Week 49 (over twice the seasonal baseline). [More](#)

Antivirals:

There were 139 influenza-specific antiviral (AV) medications prescribed to DON beneficiaries this week (138 oseltamivir, one amantadine). Influenza-specific AV prescriptions were nearly triple 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](#)



Vaccination

82.8% of Navy and 74.3% of Marine Corps active duty service members have received an influenza vaccine (as of 6 December 2014). [More](#)

Reminder: The DOD's personnel vaccination goal is 90% vaccine coverage by 15 December 2014.

Severity Indicators

Inpatient:

Two of the 25 inpatient influenza tests performed during Week 49 were positive. Three inpatient AV prescriptions were dispensed this week. No inpatient cases were reported to DRSi during Week 49. [More](#)

Coinfections:

There was one upper respiratory bacterial coinfections identified among DON beneficiaries during Week 49. [More](#)

Select Populations

Active Duty & Recruits:

In Week 49, five Navy and four Marine Corps active duty service members had laboratory positive influenza results. One Navy recruit in Week 49 had a laboratory positive influenza result. [More](#)
NHRC reports moderately elevated febrile respiratory illness (FRI) rate at Fort Benning. [More](#)

Children:

Laboratory influenza rates in the 0-4 and 5-17 age groups were 12.8 and 8.9 per 100,000, respectively. There were 40 AV prescriptions dispensed to children this week. This was over twice the seasonal baseline. [More](#)

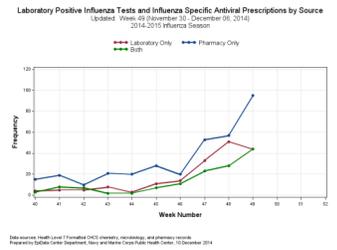
Contact Information: Gosia Nowak, 757-953-0979, gosia.nowak@med.navy.mil ~ On the Web: <http://go.usa.gov/DtUC>



Case Identification:

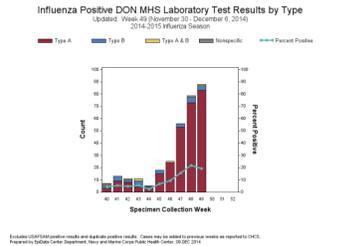
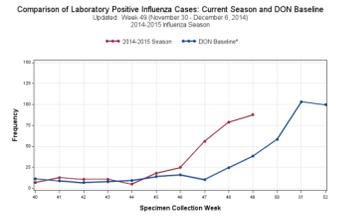
Several sources of data were utilized to identify influenza cases across the DON, including certified laboratory results, antiviral pharmacy transactions, and DRSi case reports.

- Since week 40, 20.7% of cases were identified through both positive laboratory tests and AV prescriptions.
- During Week 49, no cases of influenza-associated hospitalization were reported to DRSi. This season, only one laboratory positive inpatient case (9.1%) has been reported to DRSi.



Laboratory:

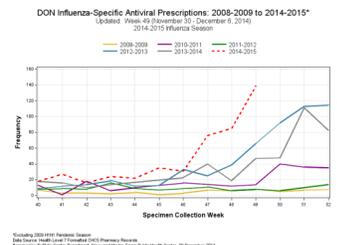
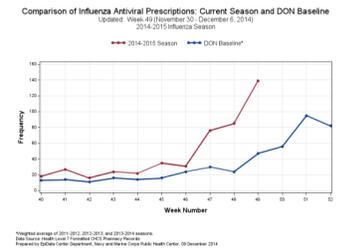
- There were 88 positive laboratory influenza results identified among DON beneficiaries in Week 49 (83 Type A, four Type B, one Type A&B).
 - The number of cases this week is over twice the seasonal baseline.
- The most laboratory positive cases this week occurred at NH Camp Lejeune (28), NH Jacksonville (17), and NH Pensacola (12).
 - NH Camp Lejeune has had the most cumulative cases since week 40 (119), followed by NH Jacksonville (47), and NH Pensacola (29).
- During Week 49, 19.1% of all influenza tests performed were positive.
 - This is higher than the percent of tests with positive results in Week 49 of last season (7.3%).
- In Week 49, most cases were positive by rapid testing (69.3%), followed by PCR (22.7%), and culture (8.0%).



Proportion of Testing Types among Positive Influenza Tests					
	Rapid	Culture	PCR	DFA	Unspecified
Week 49	69.3%	8.0%	22.7%	0.0%	0.0%
Season	78.0%	6.4%	15.7%	0.0%	0.0%

Antivirals:

- There were 139 influenza-specific antiviral (AV) medications prescribed to DON beneficiaries this week (138 oseltamivir, one amantadine).
- Antiviral prescriptions during Week 49 were nearly triple the seasonal baseline.
- Three of the antiviral prescriptions during Week 49 were in the inpatient setting.
 - One of the patients was between 18 and 44 years old and two were above 45.
- There have been 473 AVs prescribed to DON beneficiaries this season (463 oseltamivir, 10 amantadine).



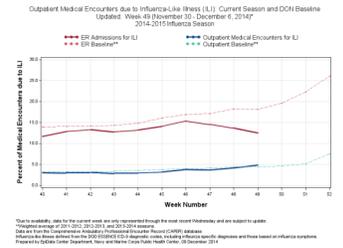
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Syndromic Surveillance

Influenza-Like Illness:

- During Week 49, 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, 12.6% of medical encounters contained ILI ICD-9-CM diagnostic codes, which was below the seasonal baseline.



Immunizations

Vaccination Coverage:

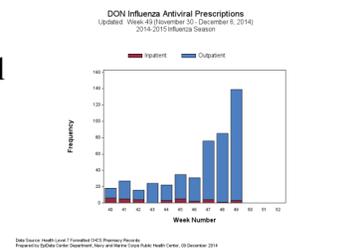
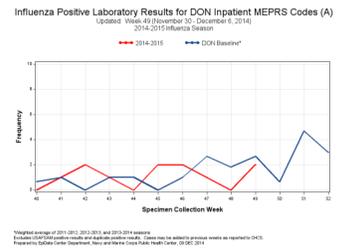
- Three of the nine laboratory-identified active duty influenza cases during Week 49 had no record of vaccination. The remaining six that were vaccinated had received IIV (injection; 4) and LAIV (intranasal; 2).
- 82.8% of Navy and 74.3% of Marine Corps active duty service members have received an influenza vaccine.
 - Among US Fleet Forces personnel, 90.4% have received an influenza vaccine.
- 82.8% of Navy and 70.3% of Marine Corps reservists have received an influenza vaccine.

[More](#)

Severity Indicators

Inpatient Surveillance:

- There were 25 inpatient influenza tests performed among DON beneficiaries in Week 49; two were positive.
 - Both inpatient cases were positive for Type A, female, and between 18 and 44 years old.
- Three AV medications were prescribed in the inpatient setting this week.
- No inpatient cases were reported to DRSi this week.
- During Week 43, approximately 10% of inpatient visits among DON beneficiaries included ICD-9-CM diagnostic codes for ILI, which was more than double the seasonal baseline; more current data is not yet available.

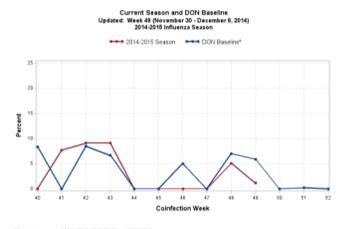


Coinfections:

- There was one bacterial coinfection identified among DON beneficiaries in Week 49.
 - One male patient over 45 years old had an upper respiratory *Streptococcus* infection at NHC Charleston.

[More](#)

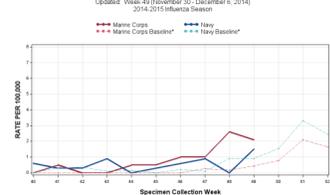
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Active Duty

- There were nine laboratory positive influenza results among DON active duty service members in Week 49.
 - Five Navy and three Marine Corps service members were positive for type A influenza. One Marine Corps service member was positive for type A & B influenza.
 - Three of the nine DON active duty influenza cases had no vaccination record.
- Since Week 40, 44.1% (15) of the DON active duty laboratory positive cases were vaccinated at least 14 days prior to infection.
- Six active duty service members received AVs during Week 49.
 - Two prescriptions were dispensed to active duty Marines at NH Camp Lejeune and four to active duty Navy service members at varying locations; all received oseltamivir.

Influenza Positive DON MHS Laboratory Test Results by Service (Active Duty)
Updated: Week 49 (November 30, December 6, 2014)
2014-2015 Influenza Season



Weighted average of 2011, 2012, 2013, and 2014 seasons.
Number of DON laboratory positive results, December, Week 50 (week record)
Baseline (2014) rates reported as weekly average. Current week rates as reported (DHS).
Prepared by EpiData Center Department, Navy and Marine Corps Public Health Center, 10/28/2014

Status	Immunity Status	Vaccine Type			Total	Percent
		LAV	IV	None		
Active Duty	Vaccinated, immune	5	10	-	15	44.1%
	Vaccinated, not immune	3	5	-	8	23.5%
	No vaccination record	-	-	11	11	32.4%
Total		8	15	11	34	-
Recruit	Vaccinated, not immune	-	1	-	1	33.3%
	Vaccinated, immune	-	-	2	2	66.7%
	No vaccination record	-	-	2	2	-
Total		-	1	2	3	-

LAV=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, 10 December 2014

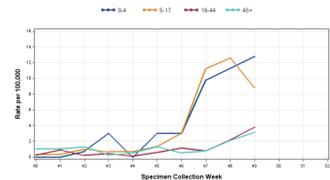
Recruits:

- One Navy recruit was positive for type A influenza at NHC Charleston in Week 49.
- There was one AV dispensed to a recruit at NHC Charleston during Week 49.

Children:

- The rates of positive influenza results in the 0-4 and 5-17 age groups in Week 49 were 12.8 and 8.9 per 100,000, respectively.
- There were 40 AV medications prescribed to children during Week 49. The number of AVs dispensed to children this week were over twice the seasonal baseline.

Influenza Positive DON MHS Laboratory Test Results by Beneficiary Age
Updated: Week 49 (November 30, December 6, 2014)
2014-2015 Influenza Season

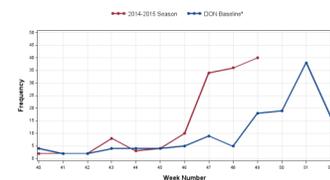


Weighted average of 2011, 2012, 2013, and 2014 seasons.
Number of DON laboratory positive results, December, Week 50 (week record)
Baseline (2014) rates reported as weekly average. Current week rates as reported (DHS).
Prepared by EpiData Center Department, Navy and Marine Corps Public Health Center, 10/28/2014

Other Age Groups:

- During Week 49, the laboratory influenza rates among the 18-44 and 45+ age groups were 3.8 and 3.2 per 100,000, respectively.

Comparison of Influenza Antiviral Prescriptions in Children: Current Season and DON Baseline
Updated: Week 49 (November 30, December 6, 2014)



Weighted average of 2011, 2012, 2013, and 2014 seasons.
Children include frequency of active duty personnel under the age of 18.
Baseline (2014) rates reported as weekly average.
Prepared by EpiData Center Department, Navy and Marine Corps Public Health Center, 10 December 2014

In the News

- Deadlier flu season is possible, CDC says [More](#)
- Flu is widespread in Illinois, with a school closing for 2 days [More](#)
- Evaluation of the Xpert flu rapid PCR assay in high-risk emergency department patients [More](#)
- What a bad flu season could cost the US economy [More](#)

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