

DON Influenza SITREP

2014-2015 Influenza Season

Week 51 (14 December 2014 — 20 December 2014)

Influenza Activity and Surveillance

Laboratory:

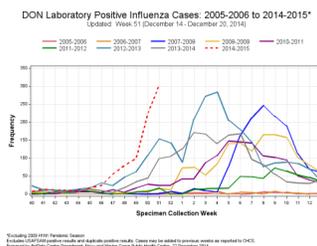
There were 304 laboratory positive influenza results among DON beneficiaries during Week 51 (*three times* the seasonal baseline). [More](#)

Antivirals:

There were 523 influenza-specific antiviral (AV) medications prescribed to DON beneficiaries this week. AV prescriptions this week were more *five times* the seasonal baseline and *double* last week's prescriptions. [More](#)

Influenza-Like Illness:

Overall, 5.7% of outpatient medical encounters were due to influenza-like illness (ILI); this was slightly above the seasonal baseline. [More](#)



Vaccination

86.2% of Navy and 78.7% of Marine Corps active duty service members have received an influenza vaccine (as of 20 December 2014). [More](#)

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

Severity Indicators

Inpatient:

Five of the 38 inpatient influenza tests performed during Week 51 were positive. Seventeen inpatient AV prescriptions were dispensed this week. One inpatient case was reported to DRSi during Week 51. [More](#)

Coinfections:

There were twelve bacterial coinfections identified among DON beneficiaries since our last report. [More](#)

Select Populations

Active Duty & Recruits:

In Week 51, 21 Navy and 17 Marine Corps active duty service members had laboratory positive influenza results. Eight recruits (7 Navy, 1 Marine Corps) had a positive influenza laboratory test. [More](#)

NHRC reports moderately elevated febrile respiratory illness (FRI) rates at NRTC Great Lakes and MCRD San Diego. [More](#)

Children:

Laboratory influenza rates in the 0-4 and 5-17 age groups were 31.7 and 44.02 per 100,000, respectively. There were 234 AV prescriptions dispensed to children this week; *six times* the seasonal baseline. [More](#)

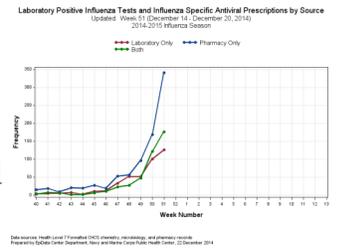
Contact Information: Gosia Nowak, 757-953-0979, gosia.nowak@med.navy.mil ~ On the Web: <http://go.usa.gov/DtUC>



Case Identification:

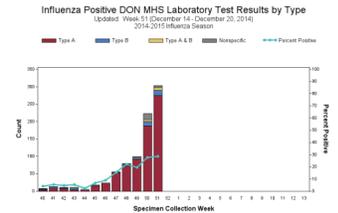
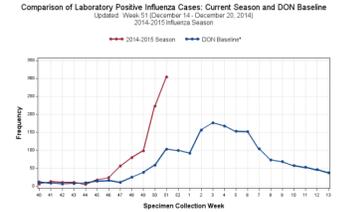
Several sources of data were utilized to identify influenza cases across the DON, including certified laboratory results, antiviral pharmacy transactions, and DRSi case reports.

- Since week 40, 25.8% 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, 34.1% this week and 31.9% this season had positive laboratory results.



Laboratory:

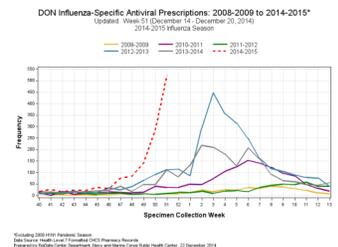
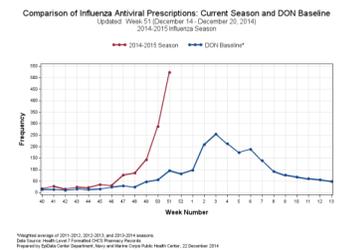
- There were 304 positive laboratory influenza results identified among DON beneficiaries in Week 51 (275 type A, 15 type B, 8 type A&B, 6 non-specific).
 - The number of cases this week remains *three times* the seasonal baseline.
- The most laboratory positive cases this week occurred at NH Jacksonville (42), NH Pensacola (25), NH Camp Lejeune (23), and WRNMMC (21).
 - NH Camp Lejeune has had the most cumulative cases since week 40 (162), followed by NH Jacksonville (107), and NH Pensacola (70).
- During Week 51, 28.8% of all influenza tests performed were positive.
 - This is higher than the percent of tests with positive results in Week 51 of last season (15.0%).
- In Week 51, most cases were positive by rapid testing (79.3%), followed by PCR (14.5%), and culture (6.3%).



Proportion of Testing Types among Positive Influenza Tests					
	Rapid	Culture	PCR	DFA	Unspecified
Week 51	79.3%	6.3%	14.5%	0.0%	0.0%
Season	72.0%	11.3%	16.7%	0.0%	0.0%

Antivirals:

- There were 523 influenza-specific antiviral (AV) medications prescribed to DON beneficiaries this week (522 oseltamivir, 1 amantadine), again prescriptions nearly *doubled* the previous week.
- Antiviral prescriptions during Week 51 were more than *five times* the seasonal baseline.
- Seventeen of the antiviral prescriptions during Week 51 were in the inpatient setting.
- There have been 1,288 AVs prescribed to DON beneficiaries this season (1,288 oseltamivir, 13 amantadine).

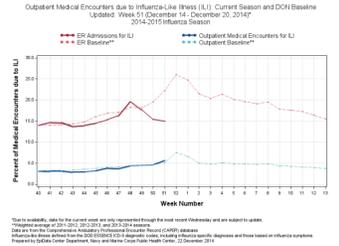


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Influenza-Like Illness:

- During Week 51, 5.7% 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, 15.1% of medical encounters contained ILI ICD-9-CM diagnostic codes, which was below the seasonal baseline.



Immunizations

Vaccination Coverage:

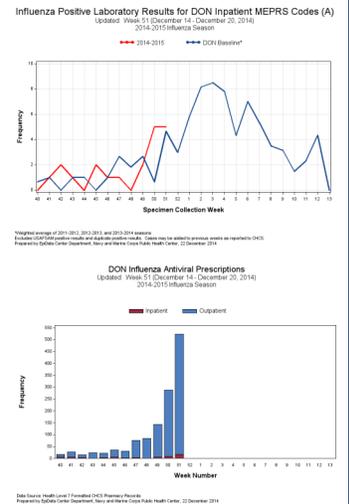
- Eight of the 33 laboratory-identified active duty influenza cases during Week 51 had no record of vaccination; the 25 vaccinated received IIV (injection; 16), LAIV (intranasal; 8), or had an unspecified formulation (1).
- 86.2% of Navy and 78.7% of Marine Corps active duty service members have received an influenza vaccine.
- Reserve vaccination rates are slightly below the rates of active duty service members (85.9% Navy, 74.2% Marine Corps).

[More](#)

Severity Indicators

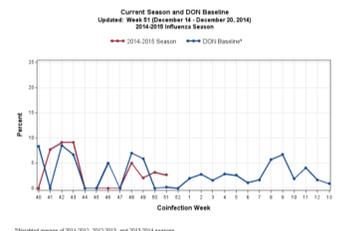
Inpatient Surveillance:

- There were 38 inpatient influenza tests performed among DON beneficiaries in Week 51; five were positive.
 - Four of this week's cases were influenza Type A (one was 0-4 years old and three were over age 45) and one was Type B (18-44 years old).
- Seventeen AV medications were prescribed in the inpatient setting this week (more than *double last week*).
 - Inpatient AVs were dispensed to patients across all age groups: 0-4 (1), 5-17 (1), 18-44 (6), 45+ (9).
 - NMC Portsmouth had the most inpatient AVs dispensed (4), while Ft. Belvoir, NH Camp Lejeune, NMC San Diego, and WRNMMC had two each.
- One influenza-associated hospitalizations was reported to DRSi this week.
 - This week's case was an 18-44 year old active duty patient at Walter Reed NMMC. This case was previously identified in laboratory and pharmacy data.



Coinfections:

- During Week 51, twelve bacterial coinfections were identified among DON laboratory positive influenza patients.
- The percent of laboratory positive influenzas with a bacterial coinfections (2.6%) was above the seasonal baseline, but remains low.
- Five upper respiratory *Streptococcus* and one lower respiratory *Staphylococcus* coinfections were identified this week. Four coinfections were identified among inpatient cases, all of which were isolated from nonrespiratory specimens.



[More](#)

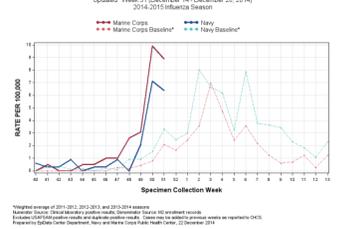
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Active Duty

- There were 38 laboratory positive influenza results among DON active duty service members in Week 51.
 - The majority of cases (89.5%) were Type A positive.
 - The largest number of cases were identified at NH Pensacola (5), WRNMMC (5), and Ft. Leonard Wood (5).
 - Eight of the 33 DON active duty influenza cases had no vaccination record.
- The majority of DON active duty laboratory positive cases this week (94.7%) and this season (73.3%) were vaccinated at least 14 days prior to infection.
- There were 74 AVs dispensed to active duty service members at 38 facilities during Week 51 (all oseltamivir).

Influenza Positive DON MHS Laboratory Test Results by Service (Active Duty)
Updated: Week 51 (December 14, December 20, 2014)
2014, 2015 Influenza Season



Number of cases: 38 (laboratory positive results, December 2014) or 38 (vaccination records, December 2014) or 38 (vaccination records, December 2014) or 38 (vaccination records, December 2014)

Status	Immunization Status	MHS		Navy		Total	Percent
		WV	WV	WV	WV		
Active Duty	Vaccinated/Immune	33	52	1	2	88	73.2%
	No vaccination record	4	9	-	-	13	33.9%
Total	Vaccinated/Immune	37	61	1	2	101	73.3%
	No vaccination record	5	1	-	-	6	20.7%
Recruit	Vaccinated/Immune	13	1	-	2	16	55.2%
	No vaccination record	-	-	-	-	7	24.1%
Total	Vaccinated/Immune	50	62	-	4	116	73.3%
	No vaccination record	4	1	-	-	5	15.7%

Legend: Vaccinated/Immune: Vaccinated more than 14 days prior to infection; Vaccinated, not immune: Vaccinated less than 14 days prior to infection; after infection; Not vaccinated, not immune: Not vaccinated, not immune.

Prepared by: Public Health Center Department, Navy and Marine Corps Public Health Center, 22 December 2014

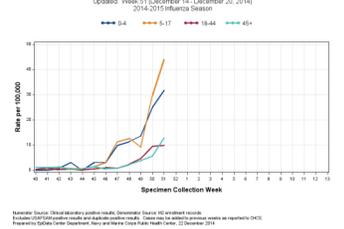
Recruits:

- Seven Navy recruits were laboratory positive this week: five cases at Lovell FHCC - Great Lakes (4 type A; one type unknown), and one each at San Antonio MMC (Type A) and Lackland (Type A). One Marine Corps recruit was laboratory positive for Type A at NH Beaufort.
- Note: Some PCR positive cases at Great Lakes have unknown influenza type based on HL7 analysis (30, 37.5%), AHLTA record reviews show the vast majority of these patients tested positive for influenza Type A.
- There were eight AV's dispensed to a Navy recruits at Lovell FHCC - Great Lakes and one AV dispensed to a Marine recruit at 628th Med Group—Charleston during Week 51 (all oseltamivir).

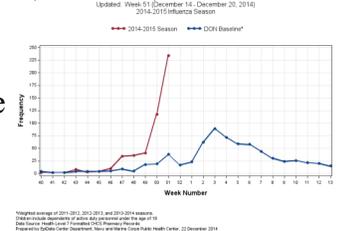
Children:

- The rates of positive influenza results in the 0-4 and 5-17 age groups in Week 51 were 31.7 and 44.02 per 100,000, respectively.
- There were 234 AV medications prescribed to children during Week 51. The number of AVs dispensed to children this week was *six times* the seasonal baseline and double the amount prescribed last week.

Influenza Positive DON MHS Laboratory Test Results by Beneficiary Age
Updated: Week 51 (December 14, December 20, 2014)
2014, 2015 Influenza Season



Comparison of Influenza Antiviral Prescriptions in Children: Current Season and DON Baseline
Updated: Week 51 (December 14, December 20, 2014)
2014, 2015 Influenza Season



Other Age Groups:

- During Week 51, laboratory influenza rates among the 18-44 and 45+ age groups were 9.85 and 12.77 per 100,000, respectively.

In the News

- CDC reports influenza activity continues to increase, with high levels of activity being reported South and Midwest states. [More](#)
- WHO reports continued influenza activity in the northern hemisphere with influenza A(H3N2) viruses predominating so far. The antigenic characterization of most recent A(H3N2) viruses so far indicated differences from the A(H3N2) virus used in the influenza vaccines for the northern hemisphere 2014-2015. [More](#)

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