

DON Influenza SITREP

2012-2013 Influenza Season Week 3 (January 13, 2013 — January 19, 2013)

Laboratory Summary:

- There were 169 laboratory positive influenza results among DON beneficiaries during Week 3 (above seasonal baseline).
 - Top facilities: NMC San Diego (34), NH Camp Lejeune (27), NH Jacksonville (10), NH Twentynine Palms (eight), NH Oak Harbor (eight)
- NH Camp Lejeune has had the most cases this season (77).
- 109 cases were positive by rapid test, 45 by PCR, 11 by culture, and four were unknown test types. **More**

Antivirals:

- There were 444 influenza-specific antiviral (AV) medications prescribed to DON beneficiaries this week (two amantadine, 440 oseltamivir, two zanamivir).
- Frequency of AV prescriptions during Week 3 was 13 times above baseline. **More**

Inpatient:

- There were 36 inpatient influenza tests performed during Week 3; 11 were positive.
- 27 inpatient AV prescriptions were dispensed in Week 3.
- Three inpatient cases were reported to DRSi this week. **More**

Vaccination:

93.8% of active duty Navy personnel have been vaccinated as of this week.

89.8% of active duty Marine Corps personnel have been vaccinated as of this week.

More

Active Duty & Recruits:

- There were 24 laboratory positive influenza cases among active duty service members in Week 3.
- There were two laboratory positive influenza cases among recruits in Week 3.
- ILI rates for LANT and PAC Fleets in Week 3 were 0.05% and 0.03%, respectively. **More**

Children:

- Laboratory influenza rates in the 0-4 and 5-17 age groups were 19.1 per 100,000 and 19.3 per 100,000, respectively.
- There were 186 AV prescriptions dispensed to children this week (41.9%). **More**

Coinfections & Pneumonia:

- There were ten coinfections identified among DON beneficiaries during Week 3.
- There were two radiology-associated pneumonias identified among influenza patients in Week 3. **More**

Additional Information:

- An EDC report on influenza vaccination and infection in DON active duty service members is available. **More**

In the News:

- See page 4 for this week's influenza news updates. **More**

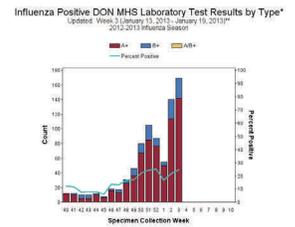
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Laboratory Summary:

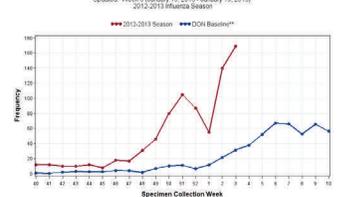
- There were 169 positive laboratory influenza results identified among DON beneficiaries in Week 3 (142 Type A, 27 Type B). One case had a dual infection.
- During Week 3, 24.7% of all influenza tests performed were positive.
 - This is higher than the percent of tests with positive results in Week 3 of last season (11.7%).
- The number of cases this week remains above the seasonal baseline.
- In Week 3, 109 cases were positive by rapid test, 45 were positive by PCR, 11 were positive by culture, and four had unspecified test types.

Frequency of Testing Types among Positive Influenza Tests				
	Rapid	PCR	Culture	Unspecified
Week 3	65%	27%	6%	2%
Season	64%	15%	20%	1%



*Includes USMCM positive results and multiple positive results
**Cases include all influenza positive results as reported by PCR

Comparison of Influenza Cases: Current Season and DON Baseline



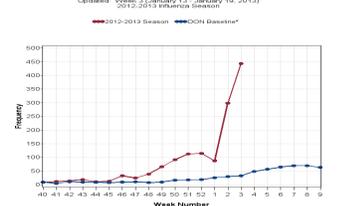
*Includes USMCM positive results and multiple positive results
**Cases include all influenza positive results as reported by PCR
*Weighted average of 2008-2009, 2009-2010, 2010-2011, and 2011-2012 seasons (Weeks 40-10)

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Antivirals:

- There were 444 influenza-specific antiviral (AV) medications prescribed to DON beneficiaries this week (two amantadine, 440 oseltamivir, two zanamivir). 27 of the antiviral prescriptions were in the inpatient setting.
- There have been 1,392 influenza-specific AV prescriptions dispensed to DON beneficiaries this season (20 amantadine, 1,369 oseltamivir, three zanamivir).
- The number of AV medications dispensed during Week 3 was more than 13 times the seasonal baseline.

Comparison of Influenza Antiviral Prescriptions: Current Season and DON Baseline



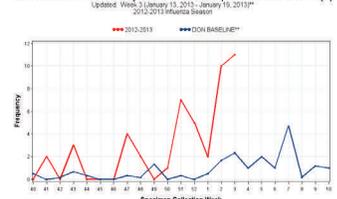
*Includes USMCM positive results and multiple positive results
**Cases include all influenza positive results as reported by PCR
*Weighted average of 2008-2009, 2009-2010, 2010-2011, and 2011-2012 seasons (Weeks 40-10)

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Inpatient:

- There were 36 inpatient influenza tests performed among DON beneficiaries in Week 3; 11 tests were positive (nine Type A, two Type B). Nine of these cases (81.8%) were treated with antivirals.
 - Three inpatient cases were active duty service members (two Marine Corps at NMC San Diego and one Navy at NMC Portsmouth).
 - Four other inpatient cases were children of active duty service members (two age 5-17 at NMC Portsmouth, one age 5-17 at NMC San Diego, and one age 18-44 at Keesler AFB)
 - The remaining inpatient cases were two retirees and two spouses, all age 45+ at NMC San Diego.
- There were 27 AV medications prescribed in the inpatient setting this week (all oseltamivir).
 - The majority of this week's inpatient prescriptions were dispensed to spouses age 45+ at NMC San Diego. Four were dispensed to children age 5-17, none to children ages 0-4.
- There were three inpatient cases reported to DRSi since last week; there have been 10 inpatient cases reported to DRSi this season. Two cases had onset during Week 51 at WRNMMC, a female child age 5-17 was previously identified in pharmacy surveillance and a male child age 0-4 was previously identified in laboratory surveillance. The third case, a male active duty service member at NMC San Diego was previously identified in laboratory and pharmacy surveillance.

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



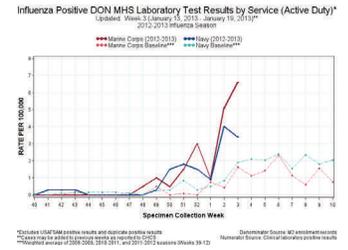
*Includes USMCM positive results and multiple positive results
**Cases include all influenza positive results as reported by PCR
*Weighted average of 2008-2009, 2009-2010, 2010-2011, and 2011-2012 seasons (Weeks 40-10)

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Active Duty & Recruits:

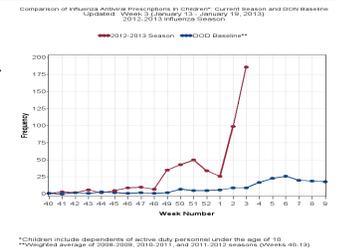
- There were 24 positive laboratory influenza results among DON active duty service members in Week 3 (13 Marine Corps, 11 Navy), 18 Type A and two Type B.
 - Cases were identified in 12 different facilities, including NH Twentynine Palms (five), NMS San Diego (four), Ft. Lee (three), NH Yokosuka (three), and NH Camp Lejeune (two).
 - Rates of influenza positive laboratory results are above baseline for Marine Corps and Navy active duty service members this week.
- There were two positive laboratory influenza results among DON recruits in Week 3 (two Marine Corps). Both cases were Type A positive by rapid test; one at NH Beaufort and one at NH Twentynine Palms.
- Four DON active duty service members received inpatient antiviral prescriptions (all oseltamivir) during Week 3 (two NMC Portsmouth, NH Camp Lejeune, NMC San Diego).



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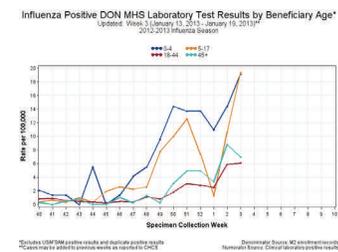
Children:

- The rates of positive influenza results in the 0-4 and 5-17 age groups were very similar in Week 3 (19.1 and 19.3 per 100,000, respectively).
- There were 186 AV medications prescribed to children in Week 3. The number of AVs dispensed to children during Week 3 was 20 times higher than the seasonal baseline.



Other Age Groups:

- During Week 3, the laboratory influenza rates among the 18-44 and 45+ age groups were 6.1 and 7.0 per 100,000, respectively.



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Coinfections:

- There were ten coinfections among DON beneficiaries in Week 3 (three *Staphylococcus*, two *Streptococcus*, and one each of *Escherichia*, *Klebsiella*, *Neisseria*, *Proteus*, and *Serratia*).
 - Five coinfections were among inpatient cases, the majority of which were spouses age 45+.
 - Two outpatient *Staphylococcus* cases were in children (male age 0-4 at Randolph AFB and male age 5-17 at WRNMMC)
 - There were two active duty cases: one inpatient (male at San Diego with *Neisseria*) and one outpatient (male at TMC-2 FI Division with *Streptococcus*)
- There have been 26 coinfections identified among DON beneficiaries this season (10 *Staphylococcus*, nine *Streptococcus*, and one each of *Escherichia*, *Klebsiella*, *Lactobacillus*, *Moraxella*, *Neisseria*, *Proteus*, *Serratia*).

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Pneumonia:

- There were two radiology-associated pneumonia cases identified among DON influenza cases in Week 3. The cases were a male child, age 5-17 at NMC Portsmouth and a male active duty service member at NMC San Diego.
- There have been seven radiology-associated pneumonias identified among DON influenza patients this season. Two cases were identified during both Week 51 and Week 3.

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Vaccination:

- As of January 19, 2013, 93.8% of Navy and 89.8% of Marine Corps active duty service members have received an influenza vaccine.
- Vaccination status of Marine Corps active duty cases (n=13) in Week 3:
 - One case was vaccinated less than 14 days prior to infection (LAIV).
 - Six cases were vaccinated more than 14 days prior to infection (five LAIV, one TIV).
 - Six cases were not vaccinated.
- Vaccination status of Navy active duty cases (n=11) in Week 3:
 - Eight cases were vaccinated more than 14 days prior to infection (five TIV, three LAIV)
 - Three cases were not vaccinated.
- Vaccination status of Marine Corps recruit cases (n=2) in Week 3:
 - One case was vaccinated more than 14 days prior to infection (LAIV).
 - One case was not vaccinated.

Navy			
Component	Total	Immunized*	%
Active Duty	313,230	293,837	93.8
Reserve	62,391	57,791	92.6

Marine Corps			
Component	Total	Immunized*	%
Active Duty	196,665	176,524	89.8
Reserve	33,288	29,094	87.4

*Includes both injection and intranasal influenza vaccines.
Force strength for active duty and reserve forces was generated using the November 2012 Defense Manpower Data Center data.

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Additional Information:

- The EDC produced a report describing influenza vaccinations and infections in DON active duty service members for four previous influenza seasons (2008-2009, 2009-2010, 2010-2011, and 2011-2012). [More](#)

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In the News:

- The CDC FluView report for Week 2 shows influenza activity remaining elevated in the US, but decreasing in some areas. 48 states report widespread geographic influenza activity. [More](#)
- In Week 2, influenza-like illness and acute respiratory infection rates increased in nearly all European countries. Hospitalizations for severe acute respiratory infections, as well as the proportion of patients testing positive for influenza, are also increasing. [More](#)
- CDC releases a health advisory for clinicians summarizing recommendations for influenza antivirals. [More](#)
- CDC issues influenza update for pediatricians regarding impacts on children. [More](#)
- The current influenza season has been particularly hard on the elderly, with sharp increases in hospitalization rates among people 65 years and over. [More](#)

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