



DEPARTMENT OF DEFENSE

AFHSC Influenza Surveillance Summary



15 March 2011

DoD Summary

- The number of samples collected and the percent positive for influenza has decreased for the last three weeks (Graph 1)
- The percent of all outpatient visits due to influenza-like-illness (ILI) decreased this week for all regions
- Active duty immunization coverage within the DoD is at 96%

Laboratory Surveillance

United States Air Force School of Aerospace Medicine (Source: global, lab-based military sentinel surveillance) [Contact](#)

- There has been a decrease in A/H1 co-circulation with A/H3 and B influenza viruses
- There continues to be good agreement between current vaccine components and circulating influenza vaccine strains
- No evidence of antiviral resistance (via genetic markers) in all analyzed A/H1 samples

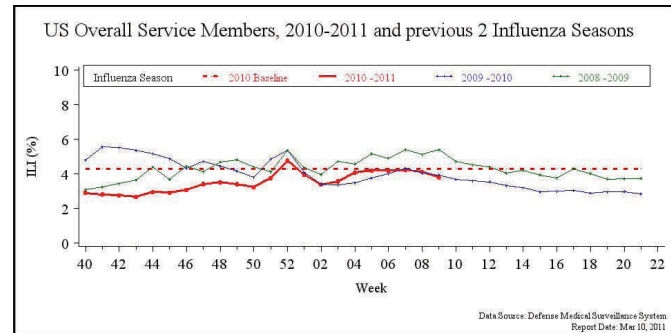
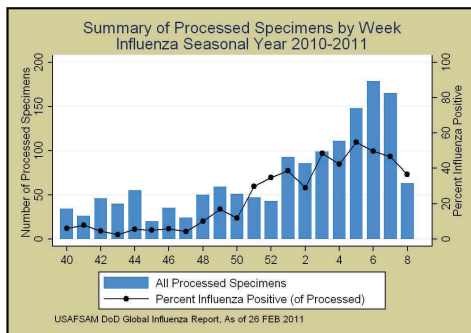
Naval Health Research Center (Source: lab-based recruits, shipboard and border surveillance) [Contact](#)

- Continue to see all influenza types, but overall numbers of cases and percent of influenza positive samples seem to be declining
- Type 4 adenovirus remains the predominant cause of febrile respiratory illness at most recruit training centers, with the exception of MCRD Paris Island where type 14 adenovirus is predominant

Electronic Surveillance

AFHSC– (Source: Defense Medical Surveillance System (DMSS); medical encounter database and reportable events) [Contact](#)

- Outpatient ILI percents are below baseline levels for servicemembers (Graph 2); among beneficiaries, ILI percents are above baseline but were at or below previous season percents



Graph 1: Summary of Processed Specimens by Week

Graph 2: Percent of Servicemember Outpatient Visits with ILI

Global Surveillance Network

NMCPHC: 125 influenza co-infections with bacteria have been identified this season; this is similar to previous seasons

DoD Overseas Laboratories: Continue to see low levels of circulating influenza activity among surveillance sites in West Africa, South America and Southeast Asia; moderate influenza activity in East Africa, predominately influenza B and A/H1

H5N1: Four human cases of H5N1 were reported this past week, two from Indonesia (both fatal) and two from Egypt (one fatal, one stable); sixteen human cases have been reported by the WHO in 2011, nine (56%) of which were fatal

Immunization Coverage

(Active Component)	DoD-All*	ARMY	MARINES*	NAVY*	COAST GUARD	AIR FORCE
Seasonal Influenza Vaccine	96%	97%	96%	92%	97%	99%

Sources: DoD ALL-MILVAX, ARMY-MEDPROS, MARINES-MRRS, NAVY-MRRS, COAST GUARD-MRRS, AIRFORCE-AFCITA
*Underestimates due to time lag in reporting systems

AFHSC Suggested Sampling Strategy for Future Surveillance and Monitoring of Influenza Activity at DoD Installations

Samples Collected (Per Week): **6-10** samples from ILI (*Fever $\geq 100.5^{\circ}F$ AND cough or sore throat*) patients seen at representative clinics on a given installation **AND ALL** patients hospitalized with respiratory symptoms or clinically diagnosed pneumonia; or part of case clusters (>5 cases) among high risk groups (*i.e. basic/advanced military trainees; shipboard or deployed service members; health care professionals*)

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