



# DEPARTMENT OF DEFENSE

## Weekly Influenza Surveillance Summary



07 December 2010

### DoD Summary

- Influenza-like illness (ILI) and pneumonia & influenza (P&I) have slightly increased over the past few weeks in military populations
- DoD Policy has been released for enhanced surveillance for influenza-associated hospitalizations Link to Memorandum
- Vaccine coverage for active duty service members is currently at 85% (US civilian coverage is estimated at 30%)

### Laboratory Surveillance

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

- Lab-confirmed influenza activity remains low across the military treatment facility sentinel sites
- Molecular analysis of all influenza positive samples to date continue to closely align with the current vaccine strains
- Of all influenza-positive cases from sentinel sites, 25% were fully vaccinated ( $\geq 14$  days post vaccine) at the time of illness

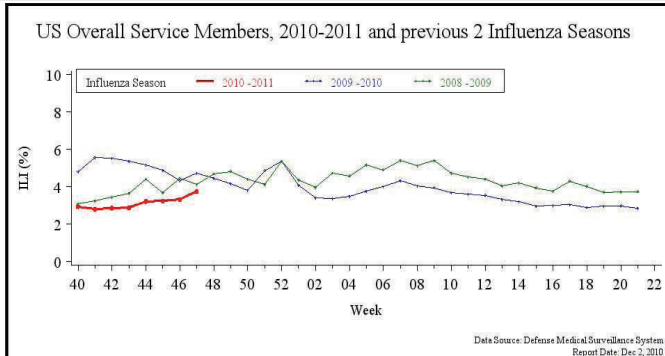
**Naval Health Research Center** (Source: lab-based recruits, shipboard and border surveillance) [View Report](#) [Contact](#)

- Only one case of confirmed influenza from recruit training centers this season (influenza B from Ft. Leonard Wood)
- Testing and viral characterization is underway for 16 A/H3N2 samples from a shipboard cluster in September out of S. America
- Influenza A/H3N2 and influenza B have been seen along the US/Mexico border in Southern California

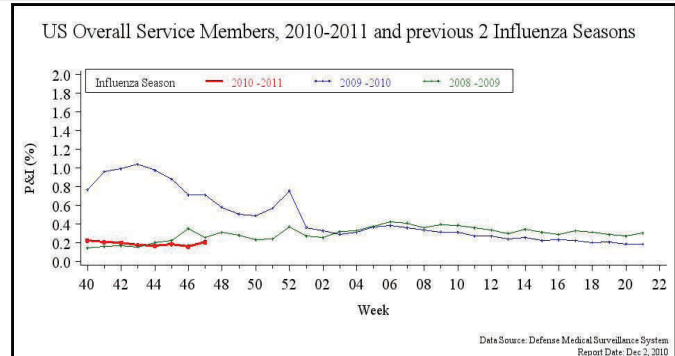
### Electronic Surveillance

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

- ILI (Graph 1) in service members around the military health system have begun trending upward over the past few weeks
- Pneumonia and Influenza (Graph 2) has increased slightly for service members and more significantly for family members
- Of reported influenza positive cases across the MHS, 27% were fully vaccinated ( $\geq 14$  days post vaccine) at the time of illness



Graph 1: Percent Influenza-like Illness



Graph 2: Percent Pneumonia and Influenza

### Global Surveillance Network

**USAPHC:** There have been 5 influenza-associated influenza hospitalizations at US Army hospitals (4 family member & 1 AD)  
**Central America:** US CDC and host country partners are currently experiencing the co-circulation of influenza B and RSV  
**Central Africa:** Circulation patterns for influenza in Cameroon have shifted back to co-circulation with pH1N1 and influenza B  
**East Africa:** Influenza A/H3N2 continues to predominate in Kenya and other parts of East Africa  
**SE Asia:** Influenza activity throughout SE Asia has been decreasing within eight surveillance partner countries in the region

### Immunization Updates

(Active Component)	DoD-All*	ARMY	MARINES*	NAVY	COAST GUARD	AIR FORCE
Seasonal Influenza Vaccine	85%	92%	73%	85%	92%	92%

Sources: DoD ALL-DMSS, ARMY-MEDPROS, MARINES-DMSS, NAVY-MRRS, COAST GUARD-MRRS, AIR FORCE-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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