



DEPARTMENT OF DEFENSE

AFHSC Influenza Surveillance Summary



22 December 2009

DoD Summary

- Influenza-like illness (ILI) activity continues to trend downward across the military health system (MHS)
- Pandemic Influenza A/H1N1 (pH1N1) remains the predominant influenza strain at US military treatment facilities
- One additional influenza-associated death was reported; Patient was an 11 year-old Navy family member who died 28 Nov 2009

Laboratory Surveillance

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

- Overall activity (ILI and lab-confirmed influenza) among global sentinel sites continues to trend downward all regions
- Molecular analysis of the predominant circulating influenza strain (pH1N1) shows a close match to the current pH1N1 vaccine
- A total of 14 (9 flu B, 5 H3N2) seasonal influenza strains have been captured in the sentinel network since 01 Oct 2009

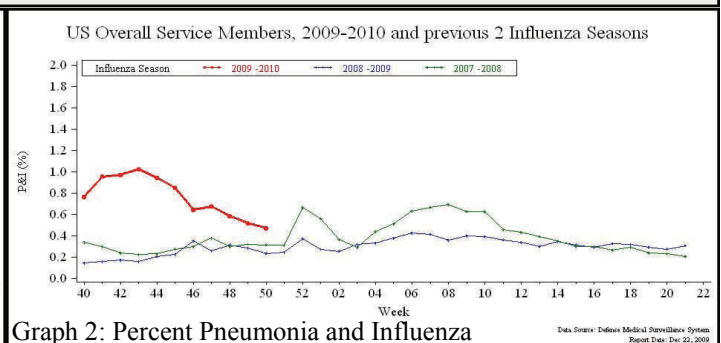
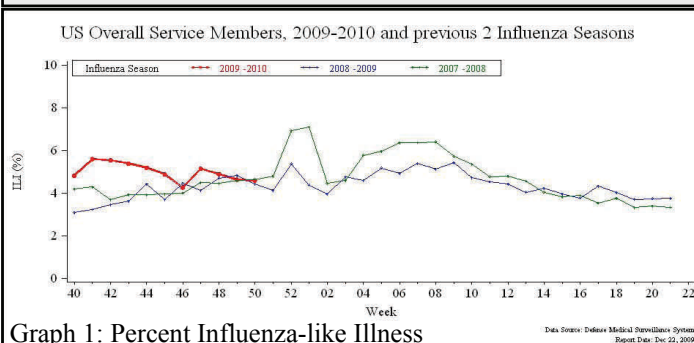
Naval Health Research Center (Source: lab-based recruits, shipboard and border surveillance) [View Report Contact](#)

- Six of eight basic military training centers are experiencing moderate co-circulation of pH1N1 with predominance of adenovirus
- Currently Fort Jackson (SC) is the only basic military training center with substantially elevated febrile respiratory illness (FRI)

Electronic Surveillance

AFHSC– Division of Data and Analysis (Source: Military Health System (MHS) medical encounter database and reportable events) [View Report Contact](#)

- **MHS:** The percent of clinic visits for ILI (Graph 1) and pneumonia and influenza (P&I) (Graph 2) is beginning to track more closely with observed levels from the two previous influenza seasons
- **DMSS:** One influenza/pneumonia-associated hospitalization was reported through service-specific reportable events systems



Global Surveillance Network

NAMRU-3: Ministry of Health officials in Egypt announced an additional case of H5N1 out of the El Tanta District in Egypt

USAMRU-K: Surveillance efforts in East Africa are beginning to see a predominance of influenza B although overall activity from flu continues to trend downward

DoD/DOS: Surveillance among US Embassies around the world show a continued predominance of pH1N1 with a notable recent increase in seasonal strains out of Central America and the Caribbean

AFRIMS: Influenza surveillance throughout South and Southeast Asia continues to show a predominance of pH1N1 with continued increases in seasonal A/H3N2; sequence analysis of these H3N2 viruses suggest a close alignment with the Southern Hemisphere H3N2 vaccine strain but lesser so for the current Northern Hemisphere H3N2 vaccine strain

Immunization Updates

(Active Component)	DoD-All	ARMY	MARINES	NAVY	COAST GUARD	AIR FORCE
Seasonal Vaccine	85%	92%	73%	67%	95%	94%
Pandemic Vaccine	33%	49%	29%	19%	56%	30%

Influenza-associated Mortality

	Reported Influenza-associated Deaths		
	AD	FM	RET
ARMY	1		1
NAVY		3	
MARINES			
AIR FORCE	1	2	2
COAST GUARD			

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*)