



DEPARTMENT OF DEFENSE

AFHSC Influenza Surveillance Summary



16 February 2010

DoD Summary

- Influenza-like illness (ILI) has slightly increased for the second consecutive week across the military health system (MHS)
- Circulating pandemic H1N1 (pH1N1) viruses remain closely aligned with the current monovalent vaccine strains
- No additional influenza-associated deaths have been reported since 12 January 2010

Laboratory Surveillance

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

- ILI visits at Air Force installations have increased for the third consecutive week but remain below the six year average
- Sequence analysis of pH1N1 viruses continues to show a close alignment with the current monovalent pandemic vaccine strains

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

- Febrile respiratory illness (FRI) rates are substantially elevated at MCRD-SD due to co-circulation of adenovirus types 4 and 14
- Sequenced pH1N1 viruses from Japan and Guam are closely aligned with the current pandemic vaccine strains

Electronic Surveillance

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

- Both ILI (Figure 1) and pneumonia & influenza (P&I) (Figure 2) have increased slightly across the MHS
- The percent of ILI clinic visits continues to track at or below levels experienced in the two previous years
- There was only one new influenza or pneumonia-associated hospitalization reported this week. View Graphic

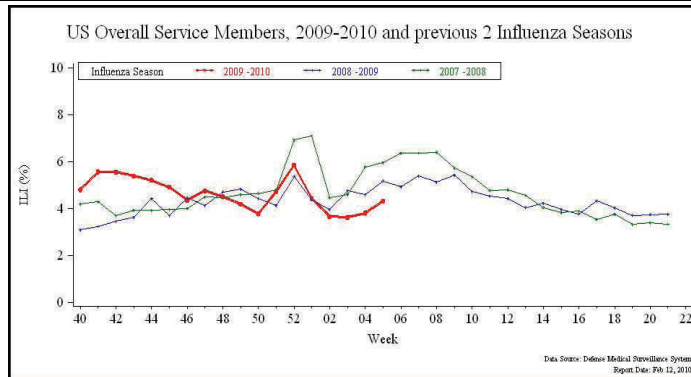


Figure 1: Percent Influenza-like Illness

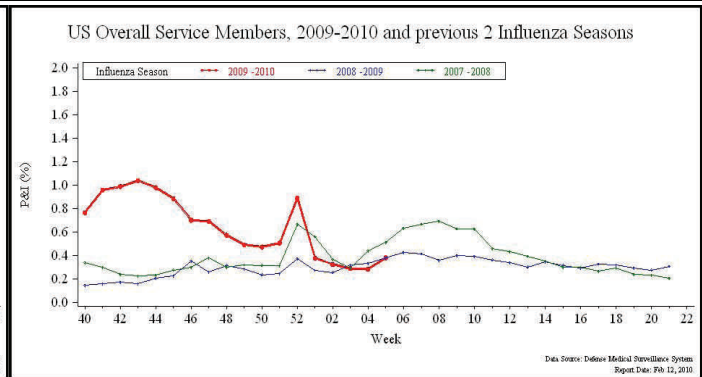


Figure 2: Percent Pneumonia and Influenza

Global Surveillance Network

NAMRU-3: The Ministry of Health in Egypt has announced five new human cases of H5N1 over the past two weeks
Molecular sequencing of pH1N1 viruses from deployed US service members shows close alignment with vaccine strains and show no signs of resistance to oseltamivir

AFRIMS: Predominance of pH1N1 continues throughout South and Southeast Asia with a moderate increase in influenza B

USAMRU-K: Moderate influenza activity in Central and East Africa with pH1N1 continuing as the predominant strain

Immunization Coverage

(Active Component)	DoD-All*	ARMY	MARINES*	NAVY*	COAST GUARD	AIR FORCE
Seasonal Vaccine	92%	94%	84%	85%	97%	96%
Pandemic Vaccine	76%	81%	72%	66%	92%	82%

*Underestimates due to time lag in reporting systems

Influenza-associated Mortality

	Reported Influenza-associated Deaths		
	AD	FM	RET
ARMY	1	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)