



DEPARTMENT OF DEFENSE

AFHSC Influenza Surveillance Summary



12 January 2010

DoD Summary

- Influenza-like illness (ILI) has begun to increase across the military health system (MHS) but is consistent with previous years
- Pandemic influenza A/H1N1 (pH1N1) remains the predominant influenza strain at US military treatment facilities
- One additional influenza-associated death was reported this past week; a 37 year-old Army spouse from Fort Campbell, Kentucky

Laboratory Surveillance

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

- Air Force ILI rates have increased over the past two weeks but are in line with historical trends for this time of year
- pH1N1 remains the predominant influenza strain across the global sentinel surveillance network
- Molecular analysis of the pH1N1 strain continues to show close alignment with the pandemic vaccine strain

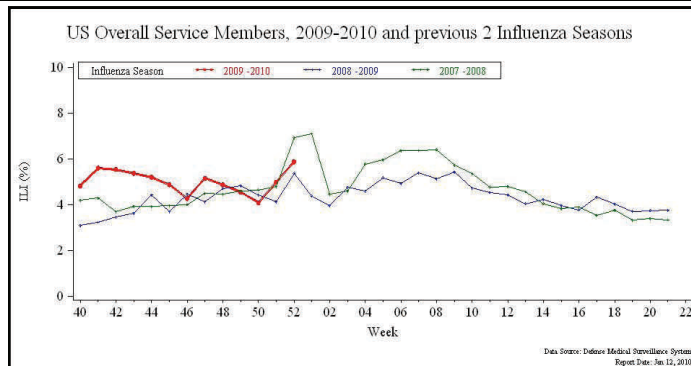
Naval Health Research Center (Source: lab-based recruits, shipboard and border surveillance) [View Report](#) [Contact](#)

- Currently one of eight basic military training centers is experiencing moderately increased febrile respiratory illness (FRI) rates
- Respiratory disease rates remain low for US Naval fleets

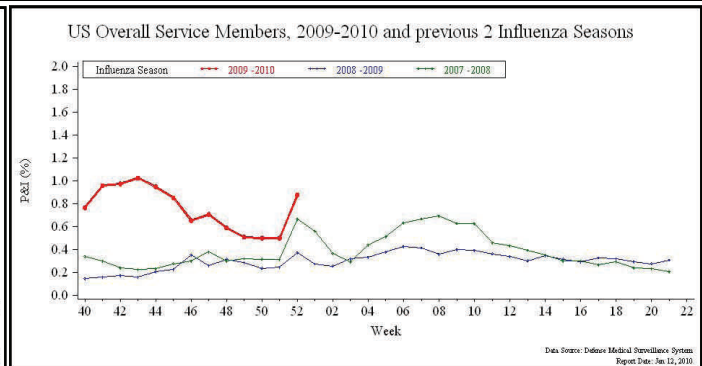
Electronic Surveillance

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) have begun increasing after the holiday season but continue to track closely with observed levels from the two previous influenza seasons
- **DMSS:** Four influenza-associated hospitalizations were reported this past week through service reportable event systems. [View](#)



Graph 1: Percent Influenza-like Illness



Graph 2: Percent Pneumonia and Influenza

Global Surveillance Network

EUROPE: Thirty-nine percent of all European samples submitted in the past week were positive for rhinovirus/enterovirus
AFRIMS: Continuation of almost complete predominance of pH1N1 in multiple countries throughout SE Asia
USAMRU-K: Influenza activity continues to trend downward in East Africa with co-circulating of pH1N1, H3N2 and flu B

Immunization Updates

(Active Component)	DoD-All*	ARMY	MARINES*	NAVY*	COAST GUARD	AIR FORCE
Seasonal Vaccine	86%	93%	75%	71%	96%	95%
Pandemic Vaccine	46%	58%	43%	36%	73%	46%

*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)