



DEPARTMENT OF DEFENSE

AFHSC Influenza Surveillance Summary



02 February 2010

DoD Summary

- Overall influenza-like illness (ILI) has leveled off across the military health system (MHS) and remains below previous year's levels
- Recently identified Pandemic H1N1 (pH1N1) viruses remain closely aligned with the monovalent pandemic vaccine strain
- 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)

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- DoD sentinel surveillance sites continue to see a predominance of pH1N1
- No USAF bases are currently experiencing elevated ILI rates

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

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- Febrile respiratory illness (FRI) rates at Lackland AFB and CGCT Cape May are moderately elevated and due to adenovirus
- There have been no influenza cases at any of the eight training centers this past week

Electronic Surveillance

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

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

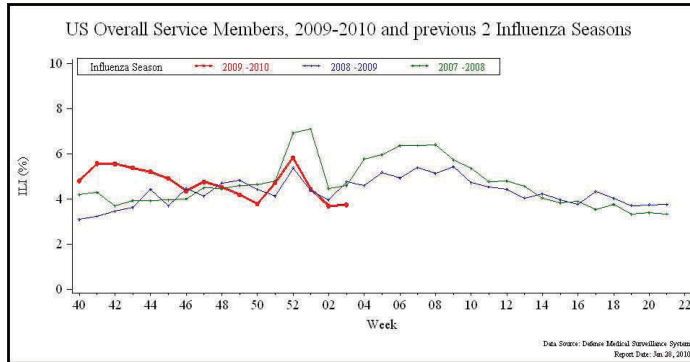


Figure 1: Percent Influenza-like Illness

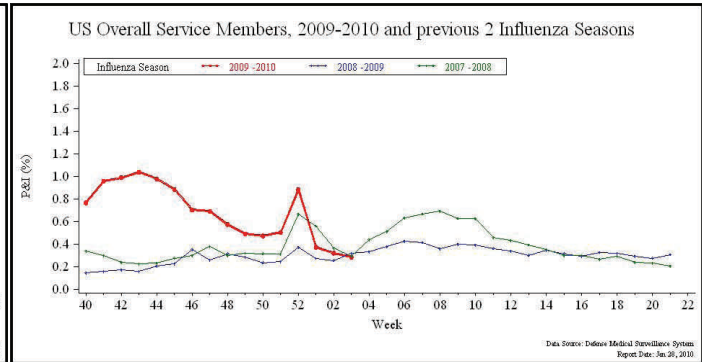


Figure 2: Percent Pneumonia and Influenza

Global Surveillance Network

NAMRU-3: The Ministry of Health in Egypt has announced four new human cases of H5N1 this month; pH1N1 continues to predominate in many parts of Africa

AFRIMS: Molecular sequencing of pH1N1 viruses from throughout SE Asia show close alignment with the current monovalent pandemic vaccine strain

Immunization Coverage

(Active Component)	DoD-All*	ARMY	MARINES*	NAVY*	COAST GUARD	AIR FORCE
Seasonal Vaccine	91%	94%	83%	83%	97%	96%
Pandemic Vaccine	68%	75%	64%	59%	89%	73%

*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)