



DEPARTMENT OF DEFENSE

AFHSC Influenza Surveillance Summary



05 October 2010

DoD Summary

- Clinic visits for influenza-like illness (ILI) are trending upward consistent with typical northern hemisphere autumn increases
- Global surveillance sites have seen a recent shift in predominance to H3N2 in East Africa and Central and South America
- Seasonal influenza immunization coverage for DoD is currently at 20% for the active component

Laboratory Surveillance

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

- ILI and lab-based influenza cases across the military sentinel site network remain low
- Molecular sequencing and characterization of H3N2 viruses out of East Africa from recent months is currently underway

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

- Currently one basic military training facility is experiencing elevated febrile respiratory illness rates (NRTC Great Lakes)
- There have been no influenza cases in the 2010-2011 season among military recruits at any of the 8 training centers

AFHSC – (Source: ESSENCE)

Electronic Surveillance

[Contact](#)

- ILI activity among military treatment facilities (MTFs) in the Pacific continues to demonstrate an upward trend (Fig. 1)
- ILI activity throughout Europe is trending upward but consistent with autumn increases from previous years (Fig. 2)
- Overall clinic visit for ILI among MTFs in the continental United States remains low

Fig 1: Pacific MTFs clinic visits counts for ILI

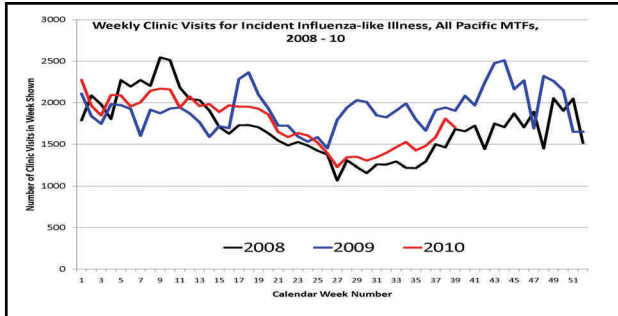
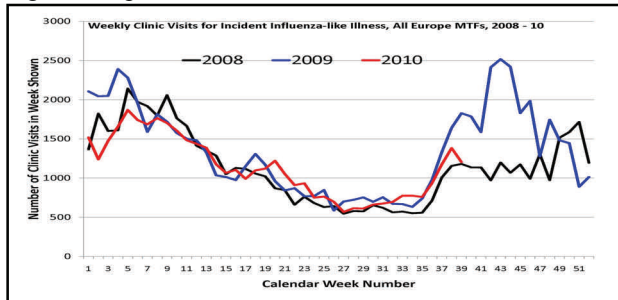


Fig 2: Europe MTFs clinic visit counts for ILI



AFHSC-GEIS Global Lab-Based Surveillance

SE Asia:

Thailand, Cambodia and the Philippines are currently experiencing the co-circulation of H3N2 and pandemic H1N1 and influenza B

Central America:

Honduras, Guatemala and El Salvador are currently experiencing a predominance of influenza H3N2

South America:

AFHSC-GEIS partners in Peru are currently experiencing localized outbreaks of H3N2 in the city of Iquitos, in Northeastern Peru

Pacific:

US military MTFs in Guam are seeing increases in clinic visits for ILI but are within expected levels from previous seasons

East Africa:

Kenya continues to see the complete predominance of H3N2 although with decreasing burden of disease among surveillance sites

Central Africa:

Surveillance partners in Cameroon continue to see a decrease in cases where influenza B is the currently the only circulating influenza strain

Europe:

Reports from Europe show increases in non-flu respiratory viruses

Immunization Coverage

(Active Component)	DoD-All*	ARMY	MARINES*	NAVY	COAST GUARD	AIR FORCE
Seasonal Influenza Vaccine	20%	22%	17%	27%	51%	27%

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

*Underestimates due to time lag in reporting systems

AFHSC Suggested Sampling Strategy for

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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