



DEPARTMENT OF DEFENSE

AFHSC Influenza Surveillance Summary



1 March 2011

DoD Summary

- One Active Duty death associated with influenza at Fort Jackson, SC
- Increased influenza cases among vaccinated active duty recruits and beneficiaries (Graphs 1 and 2)
- DoD influenza immunization coverage has exceeded 92%

Laboratory Surveillance

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

- A/H1 increasing in proportion of cases; co-circulation with A/H3 and B
- Among influenza A and B cases, 53% (102/192) and 39% (32/82) had been vaccinated, respectively (Graph 1)
- All characterized A/H3 and B influenza viruses are genetically similar to respective vaccine strains

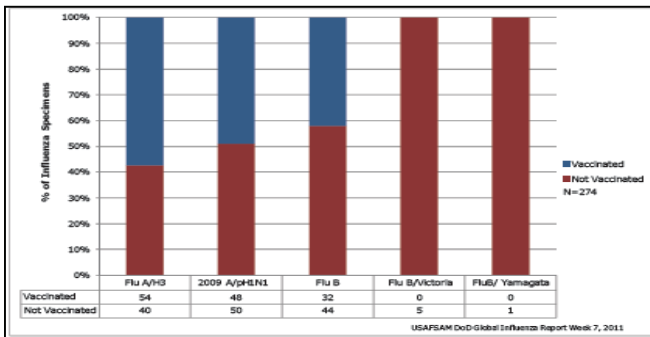
Naval Health Research Center (Source: lab-based recruits, shipboard and border surveillance) [Contact](#)

- Type 4 Adenovirus predominates Febrile Respiratory Illness at most training centers; Type 14 predominates at MCRD Parris Island and MCRD San Diego.
- Relatively large proportion of vaccinated trainees among A/H1 cases (Graph 2)

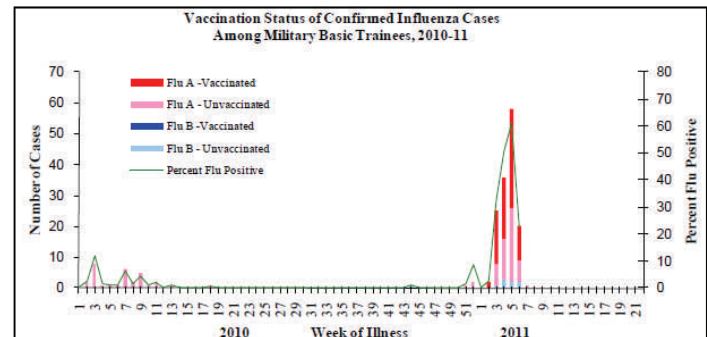
Electronic Surveillance

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

- Influenza-like illness and pneumonia and influenza incidence decreased in all regions
- Outpatient visits due to pneumonia and influenza decreased among PACOM beneficiaries



Graph 1: Vaccination Status of Beneficiary Flu Cases



Graph 2: Vaccination Status of Flu Cases in Basic Trainees

Global Surveillance Network

NMCPHC: New antiviral prescriptions leveled out and began decreasing within the MHS

- Increasing number of bacterial co-infection cases associated with influenza

NAMRU-2: Low influenza activity in Southeast Asia

NAMRU-6: Low influenza activity; A/H1, A/H3, and Flu B co-circulate

EUCOM: ILI clinic visits match 2010 levels; Influenza A/H1 and other respiratory viruses predominate

CENTCOM: Low influenza activity; A/H3 predominates

USAPHC: 1 active duty death at Ft Jackson associated with influenza

Immunization Coverage

(Active Component)	DoD-All*	ARMY	MARINES*	NAVY*	COAST GUARD	AIR FORCE
Seasonal Influenza Vaccine	94%	97%	84%	92%	97%	99%

Sources: DoD ALL-DMSS, ARMY-MEDPROS, MARINES-DMSS, NAVY-MRRS, COAST GUARD-MRRS, AIRFORCE-AFCITA
*Underestimates due to time lag in reporting systems

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*)

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