

Policy Immunization Rates Vaccine Effectiveness Novel Influenza A (H1N1)

HEALTH

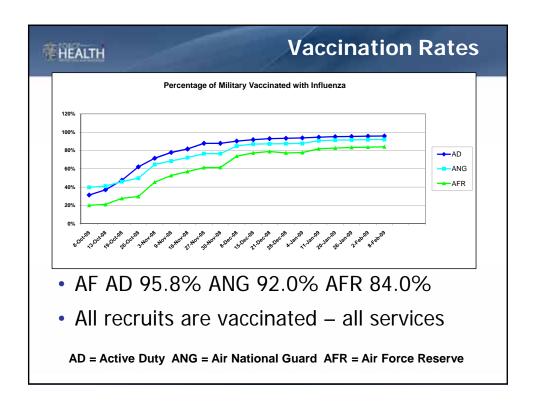
Mandatory Immunization

- First influenza vaccine was developed by and for DoD in 1940 mandatory ever since
- Mandatory seasonal influenza immunization for all active duty personnel
 - Policy reinforces need to vaccinate entire DOD population, not only uniformed personnel
 - Active duty rates 100-76% depending on Service
 - Overall DoD immunization rate: 97%
 - Active Duty flu campaign Sept December. New accessions are immunized until vaccine expires (June)
- DoD immunization tracking system being revised to a universal platform that includes dependents and retirees.

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Mandatory Immunization of Health Care Workers

- Limited to those providing direct patient care
 - Designation of who is included is at the Services discretion
- Policy released last year
- This year Services must report compliance rates



USAFSAM HEALTH **DoD Vaccine Effectiveness, 2008-09** Population: Lab-confirmed cases of influenza tested through DoD Global Influenza Surveillance Program **Cases limited to Active Duty Air Force with good** vaccination data available A/H1 - 159 lab-confirmed cases (11 Jan-4 Apr 09) • Percent of cases vaccinated = 83% (132/159) Percent of population vaccinated = 92.5% VE against seasonal A /H1 = 60.9% A/H3 - 32 lab-confirmed cases (limited to 8 Feb-4 Apr 09) Percent of cases vaccinated = 81% (26/32) Percent of population vaccinated = 93.8% VE against seasonal A /H3 = 71.4% Source: Guerrero A, MacIntosh V, Sjoberg P, USAFSAM (15 June 2009)

Season	Vaccine Effectiveness*
2003-04	94%
2004-05	86%
2005-06	92%
2006-07	87%
2007-08	81%
2008-09	79%

#HEALTH	LAIV vs TI	V among l	JS milita	ry service members	
Outcome: I	ILI via ICD-9	codes			
• 2005-06	Non-Recru	Non-Recruits		Recruits	
• 2006-07	TIV	LAIV	TIV	LAIV	
	565,165	136,588	49,990	20,335	
	Non-Recru	Non-Recruits		Recruits	
	TIV	LAIV	TIV	LAIV	
	372,117	384,974	30,420	17,547	
Source: Eick AA, W	ang 7 Hughes F	 Ford SM_Tob	oler S. Comi	narison of the	
ource: EICK AA, Wa ivalent live attenua ervice members. V	ted vs. inactivat	ted influenza va			

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AFHSC Comparison of LAIV vs TIV US Military, 2005-07

- For Recruits, LAIV significantly reduced ILI rates compared to TIV:
 - Reduced by 26-51% in 2005-06
 - Reduced by 18-47% in 2006-07
- For Non-recruits, TIV significantly reduced ILI rates (compared to LAIV):
 - Reduced by 13-15% in 2005-06
 - Reduced by 19-26% in 2006-07

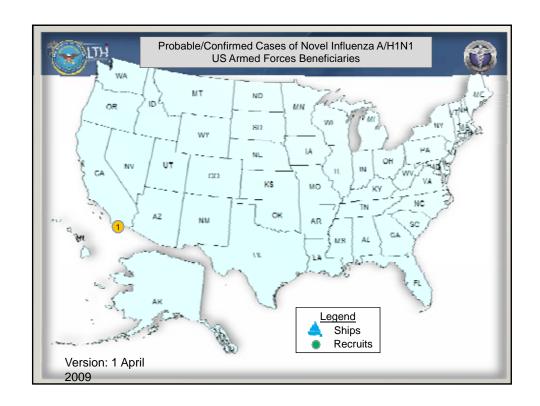
Note: Highly-immunized population, may not be generalizable to US population Much higher ILI rates in recruits (5-9x for TIV, 2-16x for LAIV)

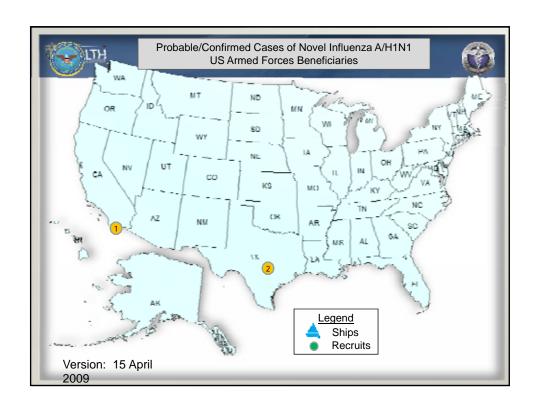
Source: Eick AA, Wang Z, Hughes H, Ford SM, Tobler S. Comparison of the trivalent live attenuated vs. inactivated influenza vaccines among U.S. military service members. Vaccine 2009; 27:3568-3575

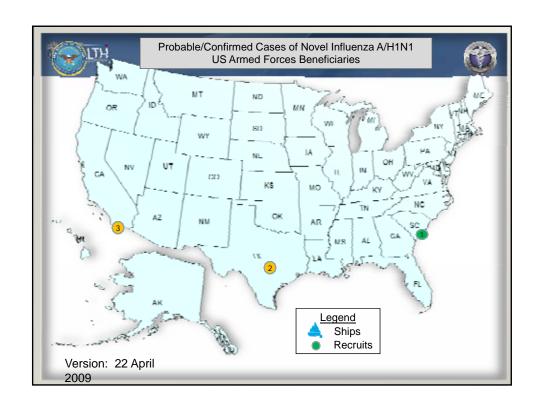
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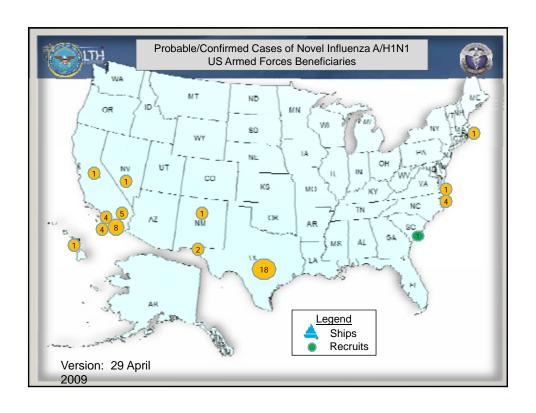
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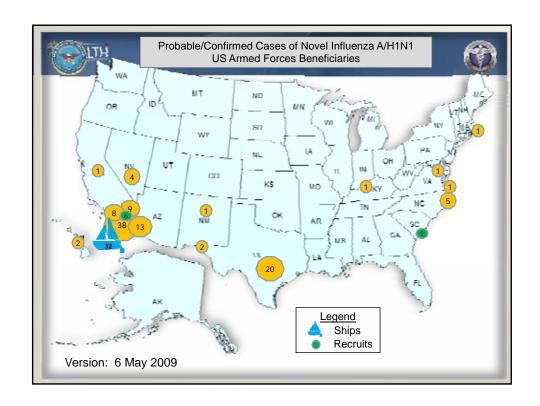
- DoD influenza surveillance systems identified the first four cases in the US
 - 3 dependent children identified via DoD influenza surveillance program
 - 1 child identified via infectious disease surveillance program at CA/Mexico border conducted by the Naval Health Research Center in coordination with the CDC

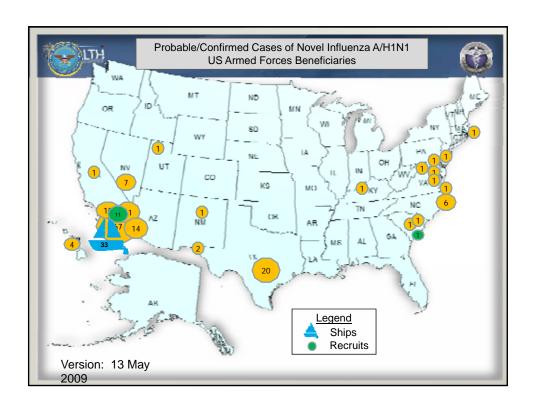


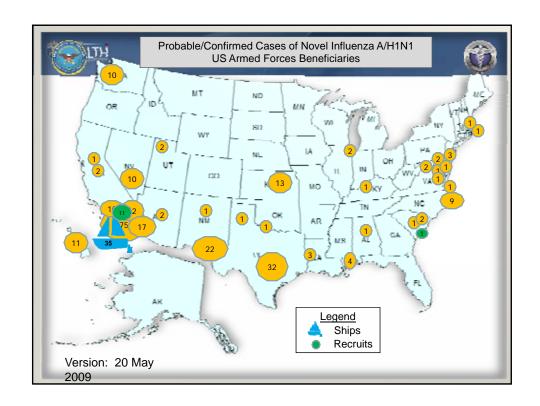


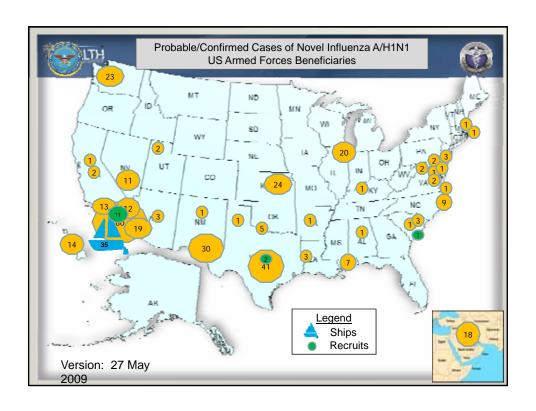


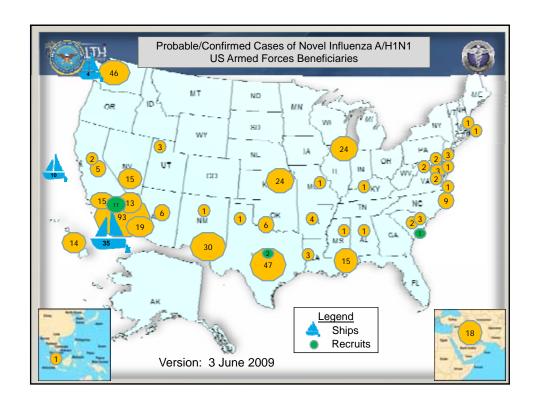


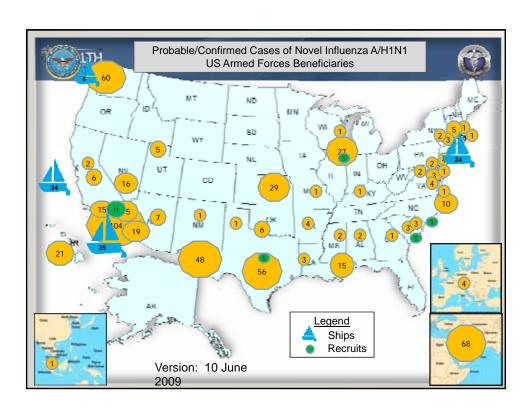












DoD Pandemic Influenza Mitigation Measures

- Antiviral Stockpile
- Antibiotic Stockpile
- PPE Stockpile
- Procuring Vaccine for Operational Requirements
- PHEO
- Plans/ guidance
- · www.dod.mil/pandemicflu

THEALTH H1N1

- DoD is engaged at federal and local levels in pandemic influenza mitigation planning
- DoD has been planning and preparing for pandemic influenza for well over a decade
 - We are ready to function in a pandemic influenza environment to meet our mission requirements
 - Provide National Defense
 - Support the national pandemic response efforts
 - Protect our service members, their families and retirees

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HEALTH Thank you

The fact is, compared to pigs, we humans are unforgivably slow to learn from pragmatic experience.



U.S. author. In A Pig's Eye (1985).

