



Naval Health Research Center Meningococcal Disease Surveillance Quarterly Report



Supported by the GEIS Division of the Armed Forces Health Surveillance Branch

1 October 2016

Program Objective

The Naval Health Research Center (NHRC) participates with the Armed Forces Health Surveillance Branch & the Navy & Marine Corps Public Health Center to confirm and characterize suspected cases of meningococcal disease.

If a suspected case of meningococcal disease presents at your MTF, please provide NHRC with a specimen.



One New Case in September, First in 26 Months

A new case was reported in September, the first in the past 26 months, a period twice longer than any prior recorded period of meningococcal disease inactivity in the US military. As have all military personnel since 2008, the patient had received the conjugate vaccine.

The incidence of meningococcal disease among recipients of the tetravalent polysaccharide vaccine from 2000-2014 was 0.262 cases per 100,000 person-years. From 2007-2014 the incidence of disease in recipients of the tetravalent conjugate vaccine was only 0.146.

Recently published information on meningococcal disease in the U.S. military includes that of Broderick, Phillips, Faix (2015), Incidence of meningococcal disease in the United States military before and after adoption of the conjugate vaccine (MCV-4), *Emerging Infectious Diseases*, 21(2), 377-378.

Contacts

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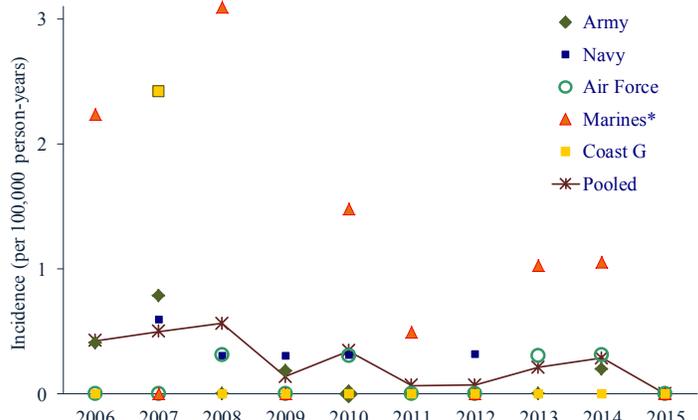
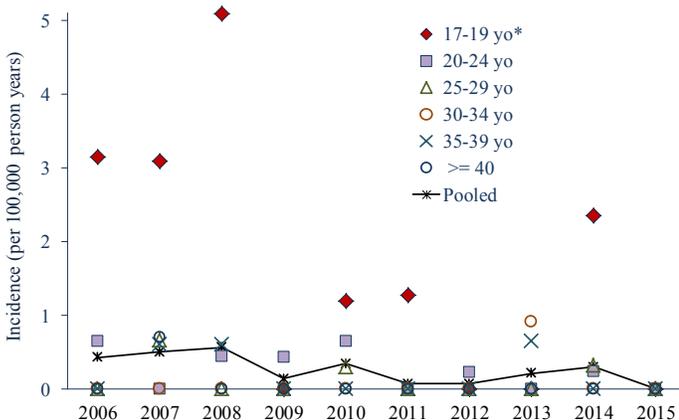
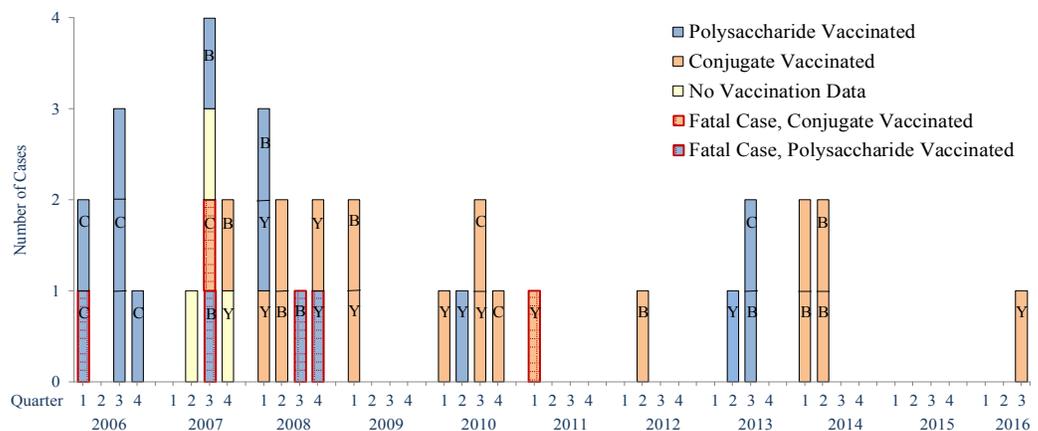
<http://www.med.navy.mil/sites/nhrc/geis/Pages/ResearchProjects.aspx>

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Active-Duty Confirmed and Probable Cases Since 2006



Meningococcal Incidence in Active Duty by Age Range.

*The incidence is significantly higher in the <20 year-old group than the others. 2015 incidence uses estimated population size.

Meningococcal Incidence in Active Duty by Branch.

*The incidence is significantly higher in the Marines than in the other branches. 2015 incidence uses estimated population size.

Data from Armed Forces Health Surveillance Branch (AFHSB), Navy and Marine Corps Public Health Center (NMCPHC), and NHRC.



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NHRC Meningococcal Disease Surveillance

Variable	'06	'07	'08	'09	'10	'11	'12	'13	'14	'15	2016 Q1 Q2 Q3	Total '06-'16	Total '11-'16	Incidence '11-'15	
Serogroup															
A												0	0		
B		3	3	1			1	1	3			12	5		
C	4	1			2			1				8	1		
W-135												0	0		
X												0	0		
Y		2	4	1	3	1		1			1	13	3		
Unknown	2	1	1						1			5	1		
Mortality Status															
Fatal	1	2	2			1						6	1	7% of all	
Not Fatal	5	5	6	2	5		1	3	4		1	32	9	93% of all	
Immunizations															
Polysaccharide	6	2	4		1			3				16	3		
Conjugate		2	4	2	4	1	1		4		1	19	7		
Unknown		3										3	0		
Location															
OCONUS	2	2	2		1				1			8	1		
Midwest				1								1	0		
Southeast	3	2	2	1	2	1			1			12	2		
Southwest	1	2	3		2		1	2	2			13	5		
Northeast		1	1					1			1	4	2		
Service															
Air Force			1		1			1	1			4	2	0.123	
Army	2	4		1	1				1			9	1	0.038	
Coast Guard		1										1	0	0.000	
Marines	4		6		3	1		2	2			18	5	0.515	
Navy		2	1	1			1				1	6	2	0.063	
AD status															
Recruit	3	1	5		2	1			1		1	14	3	1.093	
Enlisted	3	6	3	2	3		1	2	3			23	6	0.125	
Officer								1				1	1	0.106	
Gender															
F			1	1	2	1			1			6	2	0.193	
M	6	7	7	1	3		1	3	3		1	32	8	0.083	
Race/Ethnicity															
Asian			1						1			2	1	0.330	
Black	1	3	1		3	1			2		1	12	4	0.238	
Hispanic			1				1	1				3	2	0.247	
White	5	3	5	1	2			2	1			19	3	0.069	
Unk/Other		1		1								2	0	0.000	
Age															
17-19	3	3	5		1	1			2			15	3	0.723	
20-24	3		2	2	3		1		1		1	13	3	0.093	
25-29		2			1				1			4	1	0.060	
30-34								2				2	2	0.183	
>=35		2	1					1				4	1	0.129	
Total Cases	6	7	8	2	5	1	1	3	4	0	0	0	1	38	10
Incidence	0.426	0.499	0.565	0.138	0.343	0.069	0.070	0.213	0.285	0	0	0	0	0.261	0.128

Data Sources: NMCPHC EpiData Center, Armed Forces Health Surveillance Branch, and NHRC.

Specimens may be shipped to

Attn: Specimen Receiving

NHRC Operational Infectious Diseases Department

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