

Arctic Investigations Program (AIP) Alaska Invasive Bacterial Disease Surveillance Report *Haemophilus influenzae* – 2013

Background

AIP has conducted statewide surveillance of invasive *Haemophilus influenzae* since 1980. Invasive *H. influenzae* is a reportable condition to the State of Alaska Division of Public Health (DPH). Reports of cases of disease caused by this organism are shared between AIP and DPH.

Population

The population of the State of Alaska in 2013 was 736,399; 142,989 (19%) were Alaska Native people. Source: AK Dept. of Labor & Workforce Development population estimates.

Case Definition

An isolate of *Haemophilus influenzae* from a normally sterile site that has been taken from a resident of Alaska.

Methods

Participating laboratories send isolates recovered from sterile sites to the AIP laboratory in Anchorage; materials and forms for isolate shipment and data collection are provided to each laboratory by AIP. Demographic and clinical information on the cases are collected from a review of medical records. Annually, AIP asks that each laboratory review their records and provide information on any cases that may have been overlooked.

Invasive *Haemophilus influenzae* Cases by Race – Alaska, 2013

Race	Cases n (%)	Age Adjusted Rate* Rate*	% Male	Deaths n (%)
Alaska Native	12 (57)	7.4	50%	2 (17)
Non-Native†	9 (53)†	1.3	56%	0 (0)
Total	21		52%	2 (9.5)

*Cases per 100,000 per percent distribution of Alaska 2010 population

†Includes 9 cases for which race was unknown

Invasive *Haemophilus influenzae*, Cases & Rates by Age Group & Race – Alaska, 2013

Age (years)	Alaska Native		Non-Native	
	No. Cases	Rate*	No. Cases	Rate*
<2	8	136.7	1	6.6
2-4	0	0	0	0
5-18	0	0	0	0
19-54	2	3	1	0.3
55-64	0	0	1	1.2
65+	2	21.2	6	10.3
Total	12	8.4	9	1.5

*Cases per 100,000 population

Invasive *Haemophilus influenzae*, Clinical Presentations – Alaska, 2013

	No.	%*
Pneumonia with bacteremia	8	38
Bacteremia	8	38
Meningitis	4	19
Amnionitis	1	5

*Percent of cases

Serotypes of Invasive *Haemophilus influenzae* Cases by Race & Age Group – Alaska, 2013

Race	Age (yrs)	a	b	f	NT*
AK Native	<2	5	2	0	1
	2-18	0	0	0	0
	19-64	0	0	0	2
	65+	0	0	1	1
Non-Native	<2	0	0	0	1
	2-18	0	0	0	0
	19-64	0	0	1	1
	65+	0	0	1	5

*Non-typeable

Vaccine Preventable Disease

In recent years, the prevalence of *H. influenzae* type b (Hib) has declined due to use of a childhood vaccine against this serotype. Two cases of Hib occurred in 2013 in children less than 1 year old. One child had received one dose of Hib vaccine; vaccine status for the second child was unknown.