

# Arctic Investigations Program (AIP) Alaska Invasive Bacterial Disease Surveillance Report Group B *Streptococcus* – 2013

## Background

AIP has conducted statewide surveillance of invasive group B *Streptococcus* (GBS) since 2000. Beginning in January, 2007, invasive GAS became 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 GBS from a normally sterile site that has been taken from a resident of Alaska. Cases are also included when GBS has been isolated from a placenta and/or amniotic fluid with fetal demise. Early-onset cases are <7 days of age and late-onset are 7-89 days of age.

## 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 group B *Streptococcus*, Early/Late Onset Cases & Rates by Race – Alaska, 2013

	Alaska Native		Non-Native	
	No. Cases	Rate*	No. Cases	Rate*
Early onset	0	0	3	0.3
Late onset	1	0.3	2	0.2

\*Cases per 100,000 live births

## Invasive group B *Streptococcus* Cases by Race – Alaska, 2013

Race	Cases n (%)	Age		Deaths n (%)
		Adjusted Rate*	% Male	
Alaska Native	8 (22)	6.5	38%	0 (0)
Non-Native†	29 (78)†	4.5	41%	1 (3.4)
Total	37		40%	1 (2.7)

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

†Includes 1 case for which race was unknown

## Invasive group B *Streptococcus*, Cases & Rates by Age Group & Race – Alaska, 2013

Age (years)	Alaska Native		Non-Native	
	No. Cases	Rate*	No. Cases	Rate*
<2	1	17.1	5	32.9
2-4	0	0	0	0
5-18	0	0	0	0
19-54	1	1.5	7	2.3
55-64	3	22.9	6	7.1
65+	3	31.8	11	18.9
Total	8	5.6	29	4.9

\*Cases per 100,000 population

## Invasive group B *Streptococcus*, Clinical Presentations – Alaska, 2013

	No.	%*
Bacteremia	16	43
Cellulitis	8	22
Pneumonia with bacteremia	3	8
Endocarditis	2	5
Septic arthritis	1	3
Amnionitis	1	3
Meningitis	1	3
Necrotizing fasciitis	1	3
Osteomyelitis	1	3
Peritonitis	1	3
Other	2	5

\*Percent of cases