

# Arctic Investigations Program (AIP) Alaska Invasive Bacterial Disease Surveillance Report Group B *Streptococcus* – 2015

## Background

AIP has conducted statewide surveillance of invasive group B *Streptococcus* (GBS) since 2000. Beginning in January 2007, invasive GBS 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 2015 was 737,625; 144,274 (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 in infants <7 days of age and late-onset are in infants 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, 2015

	Alaska Native		Non-Native	
	No. Cases	Rate*	No. Cases	Rate*
Early onset	0	0	1	0.1
Late onset	2	0.7	3	0.4

\*Cases per 1,000 live births

## Invasive group B *Streptococcus* Cases by Race – Alaska, 2015

Race	Cases n (%)	Age		Deaths n (%)
		Adjusted Rate*	% Male	
Alaska Native	15 (25)	11.1	73%	0 (0)
Non-Native†	44 (75)†	6.5	57%	4 (9.1)
Total	59		61%	4 (6.8)

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

†Includes 7 cases for which race was unknown

## Invasive group B *Streptococcus*, Cases & Rates by Age Group & Race – Alaska, 2015

Age (years)	Alaska Native		Non-Native	
	No. Cases	Rate*	No. Cases	Rate*
<2	3	53.9	5	32
2-4	0	0	0	0
5-18	0	0	0	0
19-54	6	9	10	3.3
55-64	2	14.6	11	12.9
65+	4	38.4	18	27.9
Total	15	10.4	44	7.4

\*Cases per 100,000 population

## Invasive group B *Streptococcus*, Clinical Presentations – Alaska, 2015

	No.	%*
Cellulitis	18	30
Bacteremia	17	29
Osteomyelitis	7	12
Septic arthritis	6	10
Pneumonia with bacteremia	4	7
Endocarditis	2	3
Meningitis	2	3
Amnionitis	1	2
Empyema	1	2
Peritonitis	1	2

\*Percent of cases

