Arctic Investigations Program (AIP) Alaska Invasive Bacterial Disease Surveillance Report Group A Streptococcus – 2014

Background

AIP has conducted statewide surveillance of invasive group A *Streptococcus* (GAS) 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 2014 was 737,354; 143,367 (19%) were Alaska Native people. Source: AK Dept. of Labor & Workforce Development population estimates.

Case Definition

An isolate of GAS from a normally sterile site that has been taken from a resident of Alaska. Cases are also included when GAS has been isolated from a wound culture and accompanied by necrotizing fasciitis or streptococcal toxic shock syndrome.

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 A Streptococcus Cases by Race – Alaska. 2014

by Hade	7 Haoria, 2011			
Race	Cases n (%)	Age Adjusted Rate*	% Male	Deaths n (%)
A1 1	()			(/-/
Alaska	27 (47)	21.9	67%	1 (4)
Native	27 (47)	21.3	0770	± (+)
Non-				
	30 (53)+	5.1	63%	3 (10)
Native†	()	•		- ()
Total	57		65%	4 (7)
	<u> </u>		5570	. (,)

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

Invasive Group A *Streptococcus*, Cases & Rates by Age Group & Race – Alaska, 2014

, ,	Alaska	Alaska Native		Non-Native	
Age	No.		No.		
(years)	Cases	Rate*	Cases	Rate*	
<2	0	0	2	13	
2-4	0	0	0	0	
5-18	0	0	3	2.8	
19-54	17	25.5	15	5	
55-64	6	44.7	3	3.6	
65+	4	40.2	7	11.4	
Total	27	18.8	30	5.1	

^{*}Cases per 100,000 population

Invasive Group A Streptococcus, Clinical Presentations – Alaska, 2014

	No.	% *
Cellulitis	26	46
Septic arthritis	9	16
Bacteremia	8	14
Necrotizing fasciitis	4	7
Pneumonia with bacteremia	2	3
Other	8	14

^{*}Percent of cases

Invasive Group A Streptococcus emm types – Alaska, 2014

types	Aido	na, zu i -	
emm t	уре	No.	% *
91		18	32
89		7	12
87		6	11
4		4	7
101		4	7
1		3	5
11		3	5
28		3	5
12		2	4
53		2	4
77		2	4
82		1	2
238		1	2
Unkno	wn	2	4

^{*}Percent of cases



[†]Includes 1 case for which race was unknown