STREPTOCOCCAL DISEASE INVASIVE GROUP A (GAS)

Invasive group A streptococcal infections may manifest as any of several clinical syndromes:

- Pneumonia
- **Bacteremia** in association with cutaneous infection (e.g., cellulitis, erysipelas, or infection of a surgical or nonsurgical wound)
- **Deep soft-tissue infection** (e.g., myositis or necrotizing facilitis)
- Meningitis, peritonitis, osteomyelitis, septic arthritis, postpartum sepsis, neonatal sepsis, and nonfocal bacteremia

Laboratory criteria for confirmation:

• Isolation of group A *Streptococcus (Streptococcus pyogenes)* by culture from a normally sterile site (e.g., blood or cerebrospinal fluid, or less commonly, joint, pleural, or pericardial fluid)

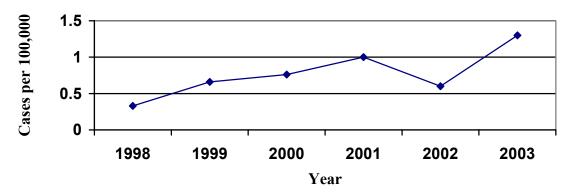
Case Classification

Confirmed: A case that is laboratory confirmed.

Epidemiology

Kentucky	2003	Rate per 100,000	U.S. Rate (2002) per 100,000
Cases	52	1.3	1.69
Cases by	Gender		
Female	25	1.2	
Male	27	1.4	

Invasive Group A Streptococcus Incidence, Kentucky 1998-2003



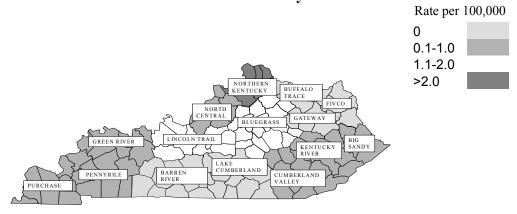
Group A Streptococcus, Age Specific Incidence Kentucky 2003

Age in years	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70+
# Cases	6	7	8	3	5	5	4	15
Rate per 100,000	1.1	1.2	1.5	0.5	0.8	1.0	1.2	4.1

The 70+ year age group experienced the highest incidence rate of 4.1 cases per 100,000 and the 20-29 year age group followed with an incidence of 1.5 cases per 100,000.

There were six deaths, which translates into a case fatality rate associated with GAS of 11.5%. There was one reported outbreak involving four individuals.

Invasive Streptococcal Group A Disease by District Kentucky 2003



Cases were reported from twenty-three counties in ten districts. The highest incidence rate at 4.7 cases per 100,000 occurred in the Northern Kentucky District where a total of nineteen cases were reported throughout the year.

District	Rate/100,000				
Purchase	0.5				
Pennyrile	0.9				
Green River	1.0				
Lincoln Trail	2.0				
North Central	0.6				
Northern	4.7				
Kentucky					
Big Sandy	0.6				
Kentucky River	0.8				
Cumberland	0.8				
Valley					
Bluegrass	2.0				