SHIGELLOSIS

Epidemiology Source: Human Complications: bacteremia, Reiter Incubation Clinical case definition **Anatomical source** Syndrome, hemolytic-uremic syndrome, 1-3 days Watery, loose stools toxic megacolon, intestinal perforation, Stools (12 hr - 7 d) Fever toxic encephalopathy Transmission Abdominal pain Fecal-oral Cramps Person-to-person Tenderness **Tenesmus Outbreaks** Indirect contact · Food- or water-borne Mucoid stools Ingestion of Attack Rate Possible blood in stools contaminated Contagious as long as 10%-40% household food/water organisms are present in Infectious dose feces (1-4 weeks) 10-100 bacteria Food handlers, daycare attendees & staff, and health care workers should be ~14,000 reported cases per year in excluded until stool culture is negative Send Diagnosis culture

Lab Diagnosis

- Culture: Isolation of Shigella from feces. Enhanced by use of specific selective media to suppress the growth of non-pathogenic bacteria. Dyes that tag rapid fermenters of lactose (not Shigella). Mac Conkey, Hektoen enteric, TTC media are used
- Blood should be cultured in severely ill patients to test for bacteremia
- Fluorescent antibody test, PCR assay, & enzyme linked DNA probes are also available

Probable: Clinically compatible case that is epidemiologically linked to a confirmed case

to **OPH**

Confirmed: Clinically compatible case that is laboratory confirmed

Treatment

Shigella are gram-negative bacilli in the Enterobacteriaceae family. There are four species (S. sonnei, S. boydii, S. flexneri, S. dysenteriae) and over 40 serotypes. S. sonnei is the most common (80%).

Treatment

- · Fluid and electrolyte replacement to prevent dehydration
- Most infections are self-limited and do not require treatment but antibiotics do shorten the duration and severity of symptoms and eradicate organisms from feces
- Fluoroquinolones (ciprofloxacin, norfloxacin) for 5 days
- · Alternatives: ceftriaxone, cefixime, trimethoprim-sulfamethoxazole
- · Anti-motility agents are not recommended.

Standard, contact precautions

Control

Report case to **OPH**

Case Management

- Food handlers, health care workers, staff & children at child care centers should be excluded until diarrhea has ceased and stool culture is negative
- Infected people should not use recreational water venues

Prevention

- Hand washing carefully and frequently, with soap (esp. before meals and after bathroom)
- Sanitary disposal of feces (diapers)
- · Disinfect diaper changing areas
- Proper cooking