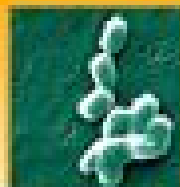




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FOODBORNE ILLNESSES



Salmonellosis

Identification - This disease is caused by many strains of *Salmonella*. It is usually acquired from contaminated food. Symptoms include abdominal pain, diarrhea, fever, and sometimes vomiting. Dehydration in adults and the elderly can be severe. Incubation period is 6-72 hours, usually between 12-48 hours.

Reservoir - Eggs in domestic and wild animals including poultry, pigs, cattle, reptiles, dogs and cats. **Transmission** - Ingestion of the organism in food obtained from infected animals or contamination by feces from infected animals or people. *Salmonella* are found in contaminated vegetables and fruit, eggs, processed dairy, undercooked poultry products, raw milk and dairy products and foods prepared by infected food personnel.



Campylobacter Infections

Identification - All strains share common features: comma-shaped or S-shaped, motile, gram-negative, aerobic, fastidious, and sensitive to acid. Symptoms include diarrhea, bloody stools, abdominal pain, fever, nausea, and vomiting. Symptoms may occur 2-5 days after exposure and persist for 4 weeks.

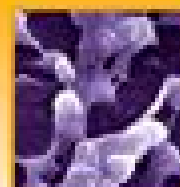
Reservoir - Poultry, cattle and other animals such as sheep, swine, horses, other birds, reptiles, fish, insects and ticks. **Transmission** - Ingestion of the organism in undercooked meat, contaminated water and food, raw milk, farm animals, or people. Infection does not last. Person-to-person transmission is possible but not common.



Listeriosis

Identification - A disease which is caused by *Listeria monocytogenes*, a gram-positive, rod-shaped bacterium. It is usually acquired from contaminated food. Symptoms include fever, muscle aches, and sometimes meningitis. Incubation period is 1-4 weeks.

Reservoir - Soil, sewage, sewage, and water. Animal reservoirs include infected wild and domestic animals. **Transmission** - Ingestion of the organism in food, usually from a food source but not from a person. **Reservoir** - Ingestion of contaminated foods such as soft cheese, raw milk, vegetables, ready-to-eat meats and poultry. In neonatal infections, the bacteria is transmitted by the mother in utero or from passage through the birth canal.



Staphylococcal Food Intoxication

Identification - It is not an infection but is caused by the enterotoxins produced by *Staphylococcus aureus*. The disease is characterized by abrupt onset of vomiting, severe nausea, and prostration. Onset is within 1-6 hours. **Transmission** - Ingestion of food contaminated by toxin or bacteria. **Reservoir** - Humans. About 10% of the population carries the bacteria. **Transmission** - Ingestion of a food containing the enterotoxin. The food becomes contaminated with the bacteria via the food handlers' hands. At room temperature, the bacteria multiply and produce the enterotoxin. Can be found in staphylococcal or staphylococcal poisoning. Includes food items: meat products, meat sandwiches, unprocessed cheese.

Reservoir - Humans. About 10% of the population carries the bacteria. **Transmission** - Ingestion of a food containing the enterotoxin. The food becomes contaminated with the bacteria via the food handlers' hands. At room temperature, the bacteria multiply and produce the enterotoxin. Can be found in staphylococcal or staphylococcal poisoning. Includes food items: meat products, meat sandwiches, unprocessed cheese.



E. coli O157:H7

Identification - Causes acute diarrhea with or without hematuria. Incubation period is 2-7-10 days, most commonly 3-6 days. *Shiga toxin* may be fatal in severe cases. About 80% of people having diarrhea caused by this organism progress to hemolytic uremic syndrome (HUS). Incubation time is 5-10 days. Children under 5 are at greatest risk for developing HUS.

Reservoir - Cattle are the primary reservoir, although it is also found in sheep. Humans can serve as the reservoir for person-to-person transmission. **Transmission** - Acquisition and ingestion of food contaminated with resistant strains. **Reservoir** - Humans and possibly farm animals and other wild and domesticated animals. **Transmission** - Contaminated water from the ingestion of food and water contaminated with pathogenic *E. coli*. **Reservoir** - Humans and possibly farm animals and other wild and domesticated animals. **Transmission** - Contaminated water from the ingestion of food and water contaminated with pathogenic *E. coli*. **Reservoir** - Humans and possibly farm animals and other wild and domesticated animals. **Transmission** - Contaminated water from the ingestion of food and water contaminated with pathogenic *E. coli*.



Giardiasis

Identification - A protozoan infection that may be either asymptomatic, cause mild, self-limiting diarrhea, or chronic, frequent diarrhea with cramps, bloating and malabsorption of fats and vitamins/minerals leading to fatigue and weight loss. In severe giardiasis there may be malabsorption and damage to the intestinal wall. **Reservoir** - Humans and possibly farm animals and other wild and domesticated animals. **Transmission** - Contaminated water from the ingestion of food and water contaminated with pathogenic *E. coli*. **Reservoir** - Humans and possibly farm animals and other wild and domesticated animals. **Transmission** - Contaminated water from the ingestion of food and water contaminated with pathogenic *E. coli*.

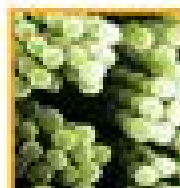
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Norovirus

Identification - A viral infection that causes mild to moderate gastrointestinal illness with nausea, vomiting, diarrhea, abdominal pain, headache, malaise, and low-grade fever usually lasting for 1-3 days. **Reservoir** - Humans are the only known reservoir. **Transmission** - Ingestion of contaminated food, contact with contaminated surfaces, or direct contact with infected people.

Reservoir - Humans are the only known reservoir. **Transmission** - Ingestion of contaminated food, contact with contaminated surfaces, or direct contact with infected people.



Aspergillus Infection

Identification - A rare infection caused by fungi contaminated with various species of *Aspergillus* fungi. As the fungi grow, they produce aflatoxins and other mycotoxins that can cause liver damage and other health problems. **Reservoir** - Humans are the only known reservoir. **Transmission** - Ingestion of contaminated food, contact with contaminated surfaces, or direct contact with infected people.

Reservoir - Humans are the only known reservoir. **Transmission** - Ingestion of contaminated food, contact with contaminated surfaces, or direct contact with infected people.



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