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# FOODBORNE ILLNESSES



## Salmonellosis

**Identification** - This disease is caused by many strains of bacteria. It is usually associated with abdominal pain, diarrhea, fever, and occasional 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 Infection

**Identification** - All strains share common features: diarrheal stool or vomit, watery 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, rodents and birds. Most are poultry but not common. **Transmission** - Ingestion of the organism in undercooked meat, contaminated water and food, raw milk, farm animals, infected stool in feces. Person to person transmission is possible but not common.

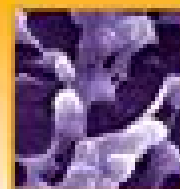


## Listeriosis

**Identification** - A disease which is caused by a bacterium that grows in a great variety of foods. It is caused by L. monocytogenes in a pregnant woman it causes fever and miscarriage or stillbirth. An immunocompromised person can contract the disease in the fetus. High risk populations include neonates, elderly, immunocompromised, pregnant women, chronically ill.

**Reservoir** - Soil, sewage, sewage, and water. Animal reservoirs include infected wild and domestic animals. Some 10% of the healthy carriers have L. monocytogenes in their feces but do not have symptoms.

**Transmission** - 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, cramps, and prostration. Onset is within 1-6 hours. These enterotoxins are released by heating or thermal processing.

**Reservoir** - Humans. About 10% of the population carries the bacteria. Occasionally seen with infected ulcers, dog and cat. **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, notably shell eggs, meat products, meat sandwiches, unspiced chutney.



## E coli O157:H7

**Identification** - Causes acute diarrhea with or from. Incubation period is 2-7-10 days, most commonly 3-6 days. Diarrhea may be watery or bloody or stool or almost watery blood. About 80% of people having diarrhea caused by this organism progress to hemolytic uremic syndrome (HUS). Infectious dose is very low. Children under 5 are at greatest risk for developing HUS.

**Reservoir** - Cattle are the primary reservoir, although it is also found in dogs. Humans can serve as the reservoir for person to person transmission.

**Transmission** - Acquisition was the ingestion of food contaminated with resistant feces. Several outbreaks have been associated with petting farms, fairs, hamburgers, melons, sprouts, lettuce, soft-shell, spinach, apple cider, apricots, and processed milk. Person to person transmission occurs in families, institutional care facilities, and day care centers. Water-borne transmission occurs from drinking and recreational water.

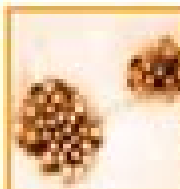


## Giardiasis

**Identification** - A protozoan infection that may be either asymptomatic, cause acute self-limiting diarrhea, or chronic, frequent diarrhea with cramps, bloating and incomplete absorption of fats and vitamins resulting in weight loss and fatigue. Infection may be severe and chronic. Infection may be severe and chronic. Infection may be severe and chronic.

**Reservoir** - Humans and possibly beavers and other wild and domesticated animals.

**Transmission** - Contaminated surface water from the ingestion of food and water contaminated with protozoan cysts. Typical chlorine treatment of drinking water is not enough to killing the cysts. Chlorinated, contaminated recreational water can be a source. Person to person transmission occurs from transfer of cysts from infected people particularly in day care centers and institutions.



## 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 lasts for 1-3 days.

**Reservoir** - Humans are the only animal reservoir.

**Transmission** - Spread through ingestion of contaminated food, contact with stool, feces, also contact with infected surfaces.



## Aspergillus Infection

**Identification** - can cause lung disease caused by fungi contaminated with various species of Aspergillus fungi. As the fungi grow, they produce aflatoxins and other mycotoxins that compromise the host's immune system. Lung growth may last 1 day to 2 months.

**Reservoir** - Aspergillus fungi are ubiquitous and most abundant particularly in decaying plant material, compost piles, mold, and soil. Aflatoxin and mycotoxin production is variable and depends upon the type of Aspergillus species and environmental conditions. **Transmission** - Airborne transmission of spores, ingested and possibly inhalation of spores.



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# Foodborne Bacterial Pathogens

**Michael Doyle**



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