What is listeriosis?
Listeriosis, a serious infection caused by eating food contaminated with the bacterium Listeria monocytogenes, has recently been recognized as an important public health problem in the United States. The disease affects primarily pregnant women, newborns and adults with weakened immune systems. It can be avoided by following a few simple recommendations.

How great is the risk for listeriosis?
In the United States, an estimated 1,100 persons become seriously ill with listeriosis each year. Of these, 250 die. At increased risk are:

- Pregnant women, who are about 20 times more likely than other healthy adults to get listeriosis. About one-third of listeriosis cases happen during pregnancy.
- Newborns rather than pregnant women themselves suffer the serious effects of infection in pregnancy.
- Persons with weakened immune systems.
- Persons with cancer, diabetes or kidney disease.
- Persons with AIDS, who are almost 300 times more likely to get listeriosis than persons with intact immune systems.
- Persons who take glucocorticosteroid medications.
- The elderly.

Healthy adults and children occasionally become infected with Listeria, but they rarely become seriously ill.

How does Listeria get into food?
Listeria monocytogenes is found in soil and water. Vegetables may become contaminated from the soil or from manure used as fertilizer. Animals may carry the bacterium without appearing ill and can contaminate foods of animal origin such as meats and dairy products. The bacterium has been found in a variety of raw foods, such as uncooked meats and vegetables, as well as processed foods that become contaminated during processing, such as soft cheeses and cold cuts at the deli counter. Unpasteurized (raw) milk or foods made from unpasteurized milk can contain the bacterium. Listeria is killed by pasteurization, and heating procedures used to prepare ready-to-eat processed meats should be sufficient to kill the bacterium; however, unless good manufacturing practices are followed, contamination can occur after processing.

How do you get listeriosis?
You get listeriosis by eating food contaminated with Listeria. Babies can be born with listeriosis if their mothers eat contaminated food during pregnancy. Although healthy persons may consume contaminated foods without becoming ill, those at increased risk for infection can probably get listeriosis after eating food contaminated with even a few bacteria. Persons at risk can prevent Listeria infection by avoiding certain high-risk foods and by handling food properly.

How do you know if you have listeriosis?
A person with listeriosis usually has fever, muscle aches and sometimes gastrointestinal symptoms such as nausea or diarrhea. If infection spreads to the nervous system, symptoms such as headache, stiff neck, confusion, loss of balance or convulsions may occur. Infected pregnant women might experience only a milk flu-like illness; however, infection during pregnancy can lead to premature delivery, infection of the newborn or even stillbirth. There is no routine screening test for susceptibility to listeriosis during pregnancy,
as there is for rubella and some other congenital infections. If you have symptoms such as fever or stiff neck, consult your doctor. A blood or spinal fluid test (to cultivate the bacteria) will show if you have listeriosis. During pregnancy, a blood test is the most reliable way to find out if your symptoms are due to listeriosis.

**Can listeriosis be prevented?**
The general guidelines recommended for the prevention of listeriosis are similar to those used to help prevent other foodborne illness, such as salmonellosis.

**How can you reduce your risk for listeriosis?**
General recommendations:
- Thoroughly cook raw food from animal sources, such as beef, pork or poultry.
- Wash raw vegetables thoroughly before eating.
- Keep uncooked meats separate from vegetables and from cooked foods and ready-to-eat foods.
- Avoid raw (unpasteurized) milk or foods made from raw milk.
- Wash knives, hands and cutting boards after handling uncooked foods.

Recommendations for persons at high-risk, such as pregnant women and persons with weakened immune systems, in addition to the recommendations listed above:
- Avoid soft cheeses such as feta, Brie, Camembert, blue-veined and Mexican-style cheese. (Hard cheeses, processed cheeses, cream cheese, cottage cheese or yogurt need not be avoided.)
- Cook until steaming hot left-over foods or ready-to-eat foods, such as hot dots, before eating.
- Although the risk of listeriosis associated with foods from deli counters is relatively low, pregnant women and immunosuppressed persons may choose to avoid these foods or thoroughly reheat cold cuts before eating.
- Consume perishable and ready-to-eat foods as soon as possible
- Do not eat refrigerated pâtés or meat spreads. Canned or shelf-stable pâtés and meat spreads may be eaten
- Avoid getting fluid from hot dog packages on other foods, utensils, and food preparation surfaces, and wash hands after handling hot dogs, luncheon meats, and deli meats.
- Do not eat refrigerated smoked seafood, unless it is contained in a cooked dish, such as a casserole. Refrigerated smoked seafood, such as salmon, trout, whitefish, cod, tuna or mackerel, is most often labeled as "nova-style," "lox," "kippered," "smoked," or "jerky." The fish is found in the refrigerator section or sold at deli counters of grocery stores and delicatessens. Canned or shelf-stable smoked seafood may be eaten.

**Can listeriosis be treated?**
When infection occurs during pregnancy, antibiotics given promptly to pregnant women can often prevent infection of the fetus or newborn. Babies with listeriosis receive the same antibiotics as adults, although a combination of antibiotics is often used until physicians are certain of the diagnosis. Even with prompt treatment, some infections result in death. This is particularly likely in the elderly and in persons with other serious medical problems.