Frequently Asked Questions

What is brucellosis?
Brucellosis (brew-sell-oh-sis) is an infectious disease caused by the *Brucella* bacteria. These bacteria are primarily passed among animals, and they cause disease in humans and animals, such as sheep, goats, cattle, deer, elk, camels, pigs, and dogs. Brucellosis can cause long-lasting or chronic symptoms that include fever that comes and goes, joint pain and tiredness.

Who gets brucellosis?
Brucellosis is not very common in the United States, where approximately 100 cases occur each year. Brucellosis can be very common in countries where animal disease control programs have not reduced the amount of disease among animals. Although brucellosis can be found worldwide, it is more common in countries that do not have good public health and domestic animal health programs, such as Mediterranean countries (Portugal, Spain, Southern France, Italy, Greece, Turkey, and North Africa), South and Central America, Eastern Europe, Asia, Africa, the Caribbean, and the Middle East.

How do people get brucellosis?
People become infected by coming in contact with animals or animal products that are contaminated with these bacteria. People are generally infected in 1 of 3 ways:
- Eating or drinking something that is contaminated with the *Brucella* bacteria
- Breathing in the organism (inhalation)
- Being exposed to bacteria through skin wounds

The most common way to be infected is by eating or drinking contaminated milk products. When sheep, goats, cows, or camels are infected, their milk is contaminated with the bacteria. If the milk is not pasteurized, these bacteria can be spread to people who drink the milk or eat cheeses made from the infected milk. Unpasteurized cheeses, called "village cheeses," may represent a particular risk.

Inhalation of *Brucella* organisms is not a common route of infection, but it can be a threat for people in certain occupations, such as those working in laboratories where the organism is cultured. Inhalation is often responsible for a significant percentage of cases in slaughterhouse employees.

Contamination of skin wounds may be a problem for people working in slaughterhouses or meat packing plants or for veterinarians. Hunters may be infected through skin wounds or by accidentally swallowing the bacteria after cleaning deer, elk, moose, or wild pigs that they have killed.

What are the symptoms of brucellosis?
Symptoms usually begin 1 to 2 months after exposure to the bacteria, but can range from 5 to 60 days to several months.

Symptoms include:
- Fever that comes and goes
• General “flu-like” symptoms
  • Sweating
  • Chills
  • Tiredness
  • Weight loss
  • Headache
  • Body aches
  • Joint pain

Severe infections of the central nervous system or lining of the heart may occur. Neurologic symptoms may occur acutely in up to 5% of the cases. In the chronic forms of brucellosis (lasting 6 weeks or longer), symptoms include recurrent fever, arthritis and testicular swelling in males.

**How is brucellosis diagnosed?**
If a health care provider suspects brucellosis, samples of the patient’s blood or bone marrow will be examined.

**What is the treatment for brucellosis?**
Antibiotics are used to treat brucellosis. (NOTE: It is very important to finish your antibiotics even if you begin to feel better, unless otherwise directed by your health care provider.)

**Should a person infected with brucellosis be excluded from work or school?**
Brucellosis is not easily spread from person to person. People infected with brucellosis do not need to be excluded from work or school.

**How can brucellosis be prevented?**
• Do not drink raw or unpasteurized milk.
• Do not eat dairy products, including cheese or ice cream, made from unpasteurized milk.
• Avoid contact with flesh, blood, urine, and aborted fetuses from infected animals.
• Hunters and animal handlers should use rubber gloves when handling animal tissues or bodily fluids.

**Am I at risk for brucellosis if my dog is diagnosed with the disease?**
*B. canis* is the species of *Brucella* that can infect dogs. This species has occasionally been spread to people, but most dog infections do not result in human illness. Veterinarians exposed to the blood of infected animals are at risk, but pet owners are not considered to be at risk for infection.

People with weak immune systems (cancer patients, people with HIV/AIDS or transplant patients) should not handle dogs known to be infected with the *B. canis* bacteria.

**Where can I get more information on brucellosis?**
• Your health care provider
• Your local health department
• NJ Department of Health [http://www.nj.gov/health](http://www.nj.gov/health)
• Centers for Disease Control & Prevention [http://www.cdc.gov](http://www.cdc.gov)

This information is intended for educational purposes only and is not intended to replace consultation with a health care professional.
Adapted from Centers for Disease Control and Prevention

Revised 8/12