Zoonotic Disease in Montana: Q fever, Brucellosis, and Tularemia

Q Fever coxiella burnetii Reservoirs Reservoirs Goat Although cattle, goats, and sheep are the most common reservoirs, infection has been confirmed in multiple vertebrate species including cats, dogs, wild mammals, birds, and ticks.	 Transmission Airborne (dust or aerosols) Direct contact with contaminated materials Ingesting raw milk Average incubation period of 2-3 weeks 	 Symptoms Fever Chills/Sweats Feeling tired Headache Muscle aches Gastrointestinal Symptoms Chest Pain Weight loss Non-productive cough
Brucella sp. Srucella sp. Case per Year on Average Reservoirs Neep Pig Other reservoirs include: camels, bison, elk, equids, caribou, and some species of deer	 Transmission Eating or drinking raw milk/dairy products Breathing in the bacteria Bacteria enters through skin wounds or mucous membranes Average incubation period of 1-2 months 	Symptoms Night sweats Arthralgia Headache Fatigue Anorexia Myalgia Weight loss Arthritis/spondylitis Meningitis Focal organ involvement
Tularenia Fancisella tularensis4Cases per Year on AverageCases per Year on AverageReservoirs TickImageDeer flyImageOther wild animals, such as hares, voles, muskrats, water rats, beavers and some domestic animals can serve as reservoirs.*There are 6 forms of tularemia. The form in white	 Transmission* Arthropod bite (tick/deer fly) Ingestion of contaminated food/water Inhalation of contaminated aerosols Average incubation period of 1-14 days 	 Skin ulcer (where arthropod bite occurred) Irritation and inflammation of the eye(s) Sore throat Mouth ulcers Tonsillitis Swollen lymph glands in neck Cough Chest pain Difficulty breathing

reservoir/agent they come into contact with. Symptoms are specific to the form of Tularemia as well.

