

POSSIBLE ZONNOSES OF WILDLIFE

Birds, Rodents, Pigs, Non-Human Primates, Rabbits, Deer, Canine

Proper use of personal protective equipment makes the risk of transmission of these diseases unlikely.

Pathogen	Primary Host(s)	Animal Disease	Human Disease
Eastern encephalitis	<ul style="list-style-type: none"> • Small birds, ducks, horses (mosquitoes) 	<ul style="list-style-type: none"> • No apparent disease • encephalitis 	<ul style="list-style-type: none"> • Encephalomyelitis
Western encephalitis	<ul style="list-style-type: none"> • Birds, squirrels, snakes, horses (mosquitoes) 	<ul style="list-style-type: none"> • No apparent disease • Horses die 	<ul style="list-style-type: none"> • Encephalomyelitis
Venezuelan encephalitis	<ul style="list-style-type: none"> • Rodents, horses (mosquitoes) 	<ul style="list-style-type: none"> • No apparent disease • Horses die 	<ul style="list-style-type: none"> • Encephalitis
St. Louis encephalitis	<ul style="list-style-type: none"> • Birds (mosquitoes) 	<ul style="list-style-type: none"> • No apparent disease 	<ul style="list-style-type: none"> • Encephalomyelitis
Japanese B encephalitis	<ul style="list-style-type: none"> • Birds, pigs, horses, cattle (mosquitoes) 	<ul style="list-style-type: none"> • No apparent disease • Domestic animals may die 	<ul style="list-style-type: none"> • Encephalitis
Murray Valley encephalitis	<ul style="list-style-type: none"> • Birds (mosquitoes) 	<ul style="list-style-type: none"> • No apparent disease 	<ul style="list-style-type: none"> • Encephalomyelitis
Tick-born encephalitis	<ul style="list-style-type: none"> • Rodents, birds. Goats, cattle (ticks) 	<ul style="list-style-type: none"> • No known apparent disease 	<ul style="list-style-type: none"> • Encephalitis
Yellow fever virus	<ul style="list-style-type: none"> • Nonhuman primates (mosquitoes) 	<ul style="list-style-type: none"> • No apparent disease • Death 	<ul style="list-style-type: none"> • Yellow fever
Dengue viruses	<ul style="list-style-type: none"> • Nonhuman primates (mosquitoes) 	<ul style="list-style-type: none"> • No apparent disease 	<ul style="list-style-type: none"> • Dengue fever
California encephalitis	<ul style="list-style-type: none"> • Rabbits, hares, squirrels, deer, horses, cows (mosquitoes) 	<ul style="list-style-type: none"> • No apparent disease 	<ul style="list-style-type: none"> • Encephalitis
Arenaviruses	<ul style="list-style-type: none"> • Rodents, nonhuman primates 	<ul style="list-style-type: none"> • No apparent disease • Death 	<ul style="list-style-type: none"> • No clinical disease • Malaise, fever, shock, meningitis, encephalitis
Rabies virus	<ul style="list-style-type: none"> • Weasel-skunk, civet-ferret, families with bats, foxes, skunks most important • Also dogs, cats, cattle 	<ul style="list-style-type: none"> • No apparent disease • Death with paralysis 	<ul style="list-style-type: none"> • Excitation • Paralysis • Death
Colorado tick fever virus	<ul style="list-style-type: none"> • Squirrels, chipmunks, mice, porcupines (ticks) 	<ul style="list-style-type: none"> • No apparent disease 	<ul style="list-style-type: none"> • Fever, malaise, leukopenia, rash
Chlamydia psittaci	<ul style="list-style-type: none"> • Psittacine birds, pigeons, poultry 	<ul style="list-style-type: none"> • No apparent disease • Death 	<ul style="list-style-type: none"> • Fever, cough, pneumonia
Rickettsia typhi	<ul style="list-style-type: none"> • Rats (fleas) 	<ul style="list-style-type: none"> • No apparent disease 	<ul style="list-style-type: none"> • Murine typhus

Rickettsia rickettsii	<ul style="list-style-type: none"> • Rabbits, squirrels, rats, mice, groundhogs, dogs (ticks) 	<ul style="list-style-type: none"> • No apparent disease • Dogs may die 	<ul style="list-style-type: none"> • Rocky Mountain spotted fever
Rickettsia akari	<ul style="list-style-type: none"> • Mice (mites) 	<ul style="list-style-type: none"> • No apparent disease 	<ul style="list-style-type: none"> • Rickettsialpox
Coxiella burnetii	<ul style="list-style-type: none"> • Wild ungulates 	<ul style="list-style-type: none"> • No apparent disease 	<ul style="list-style-type: none"> • Q fever
Brucella spp	<ul style="list-style-type: none"> • Wild ungulates, dogs 	<ul style="list-style-type: none"> • No apparent disease • Abortion 	<ul style="list-style-type: none"> • Brucellosis
Francisella tularensis	<ul style="list-style-type: none"> • Rabbits, squirrels, rats, skunks, bears, muskrats, coyotes, cats, dogs, swine, sheep, cattle (ticks, deerflies, mosquitoes) 	<ul style="list-style-type: none"> • No apparent disease • Lymphadenitis, septicemia 	<ul style="list-style-type: none"> • Tularemia
Yersinia pestis	<ul style="list-style-type: none"> • Rats, mice, prairie dogs, squirrels, marmots, rabbits, gerbils, chipmunks (fleas) 	<ul style="list-style-type: none"> • No apparent disease • Death 	<ul style="list-style-type: none"> • Bubonic, pneumonic, septicemic plague
Yersinia enterocolitica	<ul style="list-style-type: none"> • Rodents, rabbits, pigs, sheep, cattle, horses 	<ul style="list-style-type: none"> • No apparent disease 	<ul style="list-style-type: none"> • Enterocolitis, reactive polyarthritis
Campylobacter jejuni	<ul style="list-style-type: none"> • Birds, cattle, sheep, pigs, goats 	<ul style="list-style-type: none"> • No apparent disease • Death 	<ul style="list-style-type: none"> • Gastroenteritis
Pseudomonas pseudomallei	<ul style="list-style-type: none"> • Rats, mice, rabbits, ruminants, dogs, cats, nonhuman primates 	<ul style="list-style-type: none"> • No apparent disease • Death 	<ul style="list-style-type: none"> • Pulmonary abscesses, septicemia
Streptobacillus moniliformis	<ul style="list-style-type: none"> • Rats, squirrels, weasels, turkeys 	<ul style="list-style-type: none"> • No apparent disease 	<ul style="list-style-type: none"> • Fever, rash
Listeria monocytogenes	<ul style="list-style-type: none"> • Wild mammals, birds 	<ul style="list-style-type: none"> • No apparent disease • Death 	<ul style="list-style-type: none"> • Meningitis, abortion, septicemia
Borrelia burgdorferi	<ul style="list-style-type: none"> • Deer, mice, raccoons (ticks) 	<ul style="list-style-type: none"> • No known apparent disease 	<ul style="list-style-type: none"> • Lyme disease
Spirillum minor	<ul style="list-style-type: none"> • Rats, mice, cats 	<ul style="list-style-type: none"> • No apparent disease 	<ul style="list-style-type: none"> • Fever, rash
Cryptosporidium spp	<ul style="list-style-type: none"> • Rodents, snakes, birds 	<ul style="list-style-type: none"> • No apparent disease • Enteritis, respiratory disease 	<ul style="list-style-type: none"> • Enteritis, dysentery
Blastocystis hominis	<ul style="list-style-type: none"> • Pigs, guinea pigs, fowl, nonhuman primates 	<ul style="list-style-type: none"> • No apparent disease • Diarrhea 	<ul style="list-style-type: none"> • Diarrhea
Leishmania spp	<ul style="list-style-type: none"> • Rodents, canines, rodents, other carnivores (sandflies) 	<ul style="list-style-type: none"> • No apparent disease • Skin ulcers 	<ul style="list-style-type: none"> • Chronic skin ulcerations, mucocutaneous lesions, kalaazar syndrome
Trypanosoma cruzi	<ul style="list-style-type: none"> • Armadillos, bats, rodents, opossums, nonhuman primates, dogs, cats (triatomes) 	<ul style="list-style-type: none"> • No known apparent disease • Neurologic dysfunctions 	<ul style="list-style-type: none"> • Skin rash, myocarditis, conjunctivitis, myositis (Chagas disease)
Trypanosoma	<ul style="list-style-type: none"> • Wild ungulates 	<ul style="list-style-type: none"> • No apparent disease 	<ul style="list-style-type: none"> • Meningoencephalitis

brucei var. gambiense and var. rhodesiense	(tsetse flies)	<ul style="list-style-type: none"> • Death in coma 	
Pneumocystis carinii	<ul style="list-style-type: none"> • Rodents, foxes, nonhuman primates, sheep, goats, dogs, cats 	<ul style="list-style-type: none"> • No known apparent disease 	<ul style="list-style-type: none"> • Pneumonitis
Diphyllobothrium latum	<ul style="list-style-type: none"> • Fresh-water fish, bears, dogs, cats 	<ul style="list-style-type: none"> • No known apparent disease 	<ul style="list-style-type: none"> • Tapeworm infection, megaloblastic anemia
Hymenolepis nana and diminuta	<ul style="list-style-type: none"> • Mice, rats 	<ul style="list-style-type: none"> • Tapeworm infection 	<ul style="list-style-type: none"> • Tapeworm infection
Trichinella spiralis	<ul style="list-style-type: none"> • Wild carnivores, wild pigs 	<ul style="list-style-type: none"> • No known apparent disease 	<ul style="list-style-type: none"> • No apparent disease • Muscle invasion death
Fasciola hepatica	<ul style="list-style-type: none"> • Snails, fish, cattle, sheep, goats, camel, deer, rabbits 	<ul style="list-style-type: none"> • No apparent disease • Death 	<ul style="list-style-type: none"> • Acute hepatitis, cholecystitis, cirrhosis
Schistosoma spp	<ul style="list-style-type: none"> • Snails, rodents, baboons 	<ul style="list-style-type: none"> • No apparent disease • Death 	<ul style="list-style-type: none"> • Colitis, hepatitis, cystitis
Dracunculus medinensis	<ul style="list-style-type: none"> • Wild carnivores, nonhuman primates (water fleas) 	<ul style="list-style-type: none"> • No known apparent disease 	<ul style="list-style-type: none"> • Skin ulcers
Brugia spp	<ul style="list-style-type: none"> • Nonhuman primates, wild carnivores, rodents (mosquitoes) 	<ul style="list-style-type: none"> • No known apparent disease 	<ul style="list-style-type: none"> • Lymphadenopathy, lymphedema