

Zoonoses: By Likelihood of Contact or Exposure

This table focuses on different exposure and contact contexts, providing examples and including links to relevant Canadian information sources.

Exposure-related risk factors arise from activities, environments, or situations at the human–animal interface, such as agriculture, animal companionship, and shared natural environments, that increase the likelihood of contact with or exposure to animals, vectors, or environments that serve as reservoirs or sources of zoonotic infectious agents.



Disease	Source	Domestic Exposure	Travel	Occupational	Recreational	Vector-borne	Vector Involved
Alveolar echinococcosis	CCDR(2024)	x					
Anaplasmosis	Ticks and tick-borne diseases (2025)					x	Tick
Avian influenza (ex, H5N1 and H7N9)	Avian influenza A(H5N1), Diseases and Conditions (2025) Avian influenza A(H7N9), Diseases and Conditions (2025) IPAC (n.d) CCOHS (2025)	x	x	x	x		
Babesiosis	Ticks and tick-borne diseases (2025)					x	Tick
Bartonella henselae (cat scratch disease)	Pathogen Safety Data Sheets (2010)	x					
Bartonella quintana (trench fever)	Pathogen Safety Data Sheets (2010)					x	Body lice (Pediculus humanus)
Bovine tuberculosis	Canadian Food Inspection Agency (2025)	x	x	x			
Brucellosis	NCCID Disease Debriefs		x	x	x		
Cache Valley virus	CDC Clinical Features and Diagnosis of Cache Valley Virus Disease (2025)					x	Mosquito
California encephalitis	Provincial and Territorial Resources Health issues, A to Z- Quebec (2024) California Serogroup (CSG) Viruses- Serology and PCR, Public Health Ontario (2025)	x				x	Mosquito
Chagas disease	Diseases and Conditions (2025) WHO (2025)		x			x	Triatomine insects (kissing bugs)
Chikungunya	Mosquitoes and mosquito-borne diseases (2025)		x			x	Mosquito Aedes aegypti and Aedes albopictus
Colorado tick fever virus	Pathogen Safety Data Sheets (2011)	x	x		x	x	Tick
Crimean-Congo hemorrhagic fever	WHO (2025)					x	Tick
Cutaneous larva migrans	Canada Communicable Disease Report CCDR (2025) Travel Health		x		x		
Dengue	WHO (2025)		x		x	x	Mosquito
Eastern equine encephalitis EEE	Pathogen Safety Data Sheets (2024)					x	Mosquito
Ebola	Diseases and Conditions (2025)		x	x			
Ehrlichiosis	NCCEH (2022)					x	Tick
Hantavirus	Diseases and Conditions (2015)	x	x	x	x		
Jamestown Canyon virus	Provincial and Territorial Resources California serogroup (CSG) viruses, Quebec (2024) Alberta public health disease management guidelines - california serogroup infection, Alberta Government (2021)	x			x	x	Mosquito
Japanese encephalitis	Diseases and Conditions (2025)		x			x	Mosquito
La Crosse encephalitis	Pathogen Safety Data Sheets (2021)					x	Mosquito
Leishmaniasis	WHO (2023)		x			x	Female phlebotomine sand flies
Leptospirosis	Diseases and Conditions (2023)		x				
Louse-borne relapsing fever	CDC (2025)					x	Human body louse
Lyme disease	Ticks and tick-borne diseases (2025)	x	x	x	x	x	Tick
Malaria	CATMAT (2024)		x			x	Mosquito
Marburg	PHAC Infectious Diseases (2025)		x				
MERS-CoV	Diseases and Conditions (2025)		x				
Murine typhus	Pathogen Safety Data Sheets (2024)		x			x	Flea
Nipah virus	Diseases and Conditions (2018)		x				
Oropouche virus	Mosquitoes and mosquito-borne diseases (2025)		x			x	Biting midge Mosquito
Plague	Diseases and Conditions (2025)		x			x	Flea
Powassan virus disease	Ticks and tick-borne diseases (2025)	x		x	x	x	Tick
Psittacosis	CCOHS (2025)			x			
Q fever	CCOHS (2023)	x	x	x	x		
Rabies	Diseases and Conditions (2024)	x	x	x	x		
Rift Valley fever	WHO (2024)		x			x	Mosquito
Rocky Mountain spotted fever	NCCEH (2022)	x			x	x	Tick
Snowshoe hare encephalitis	Pathogen Safety Data Sheets (2011)	x		x	x	x	Mosquito
St. Louis encephalitis	Pathogen Safety Data Sheets (2010)	x				x	Mosquito
Tick-borne encephalitis	Diseases and Conditions (2025)		x			x	Tick
Toxocariasis	Pathogen Safety Data Sheet (2010)	x		x			
Toxoplasmosis	CCOHS (2023)	x		x			
Tularemia	Disease Debriefs	x	x	x	x	x	Tick
Venezuelan equine encephalitis VEE	Pathogen Safety Data Sheets (2021)					x	Mosquito
West Nile virus	Diseases and Conditions (2015)	x		x	x	x	Mosquito
Western equine encephalitis WEE	Pathogen Safety Data (2024)					x	Mosquito
Yellow fever	WHO (2025)		x			x	Mosquito
Zika virus	Mosquitoes and mosquito-borne diseases (2025)		x			x	Mosquito

Stay informed about zoonoses to strengthen identification, prevention, management, and response in health practice.

Explore Recommended Resources

Explore the materials

