

Canine Infectious Pathogens With Public Health Significance in Canada

The following list represents 85 zoonotic/sapronotic pathogens where the dog is involved in transmission, maintenance, or detection of the pathogen and the pathogen has been reported to have occurred in Canada (Tier 1). The list was condensed to 52 pathogen groupings for easier use in a pathogen ranking exercise.

Bacteria

1. *Bartonella* spp (*henselae*, *vinsonii* subsp *berkhoffii*)
2. *Bordetella bronchiseptica*
3. *Borrelia burgdorferi sensu stricto*
4. *Brucella canis*
5. *Campylobacter* spp (*coli*, *jejuni*, *upsaliensis*)
6. *Clostridium* spp (*difficile*, *perfringens*)
7. *Coxiella burnettii*
8. *Enterococcus* spp (*faecium*; VRE)
9. *Escherichia coli*
10. *Francisella tularensis*
11. *Helicobacter heilmannii*
12. *Klebsiella* spp
13. *Leptospira interrogans* (serovars *autumnalis*, *bratislava*, *canicola*, *grippotyphosa*, *hardjo*, *icterohaemorrhagiae*, *pomona*)
14. Methicillin-resistant *Staphylococcus aureus*
15. Methicillin-resistant *Staphylococcus pseudintermedius*
16. *Pseudomonas aeruginosa*
17. *Salmonella enterica* (*enteritidis*, *typhimurium*)
18. *Streptococcus canis*
19. *Yersinia* spp (*enterocolitica*, *pestis*)
20. **Dog bite pathogens:** *Actinomyces viscosus*, *Capnocytophaga canimorsus*, *Fusobacterium* spp, *Moraxella* spp, *Neisseria weaveri*, *Pasteurella* spp (*canis*, *multocida*), *Staphylococcus* spp (*aureus*, *pseudintermedius*), *Streptococcus* spp

Ectoparasites

21. Fleas (*Ctenocephalides canis*, *C. felis*, *Pulex irritans*)
22. Mites (*Cheyletiella yasguri*, *Sarcoptes scabiei* var *canis*)

Fungi

23. *Blastomyces dermatitidis*
24. *Cryptococcus gattii*
25. *Histoplasma capsulatum*
26. *Malassezie pachydermatis*
27. *Microsporium canis*
28. *Sporothrix schenckii*

29. *Trichophyton* spp

Helminths

30. *Acanthocheilonema reconditum*
31. *Alaria* spp (*alata*, *americana*, *canis*, *marciana*)
32. *Apophallus donicus*
33. *Baylisascaris procyonis*
34. *Cryptocotyle lingua*
35. *Diphyllobothrium* spp
36. *Diplydium caninum*
37. *Dirofilaria immitis*
38. *Echinococcus* spp (*granulosa*, *multilocularis*)
39. *Mesocestoides* spp
40. *Metorchis conjunctus*
41. *Nanophyetus salmincola*
42. *Paragonimus kellicotti*
43. *Taenia* spp (*serialis*)
44. *Toxocara canis*
45. *Unicaria stenocephala*
46. *Cryptosporidium canis*

Protozoa

47. *Giardia duodenalis* (assemblages A1, B)
48. *Leishmania infantum*

Rickettsia

49. *Anaplasma phagocytophilum*
50. *Ehrlichia canis*
51. *Rickettsia rickettsii*

Viruses

52. *Rabies*

Only a portion of the information obtained in this study is presented here. Please contact the authors for additional reference material on why a pathogen was or was not included in a particular step.