Zoonoses Fact Sheet: Zoonoses

- A zoonosis is a disease transmitted from animals to humans.
 - Australia has at least 89 zoonotic agents. Zoonotic disease can be spread directly or indirectly. For example:
 - Direct: animal to human
 - Indirect: animal to inanimate item/soil to human, animal to food to human, animal to insect vector to human

Potential zoonotic pathogens from dogs in Indigenous communities:		
Bacteria		
Bacteria are tiny living things, too small to see with the naked eye. Hundreds of them would fit on the head of a pin. You can only see them with a microscope. Bacteria live in many places, including the soil, skin and gut. There are a lot of types of bacteria that live around us, but only a few can cause disease, such as diarrhoea, skin sores, kidney infections and blood diseases.	Salmonella enterica Campylobacter spp. Yersinia spp. Streptococcus spp. Staphylococcus aureus Leptospira interrogans Ehrlichia spp. (unknown) Q fever (Coxiella burnetti)	
Protozoa		11-11-11-1-
Protozoa are a family of organisms larger than bacteria, but are still microscopic. They need to get inside another animal before they can breed. These cause diarrhoea.	Giardia duodenalis Cryptosporidium parvum	
Fungi		
Fungi are a group of simple parasite organisms that include mushrooms and mould. The fungi that can infect humans and dogs cause the skin disease ringworm. These fungi are too small to be seen with the naked eye, but bigger than bacteria.	Dermatophytes (Ringworm) Microsporum canis Trichophyton mentagrophytes	
Parasitic Worms	Nematodes:	
Parasite worms have to live inside the body of an animal like a human or a dog. The eggs and the baby worms can be too small to see, but some of the adults worms can be seen in poos. They can cause problems such as stomach upsets, itchy skin rashes, and cysts inside the body.	Ancylostoma caninum (dog hookworm) Ancylostoma ceylanicum Toxocara canis (dog roundworm) Trichuris vulpis (dog whipworm) Strongyloides stercoralis Cestodes: Echinococcus granulosis Dipylidium caninum Spirametra erinacei	
Ectoparasites	Sarcoptes scabiei var canis (scabies	
These are small insects that live on animals like dogs and depend on them for their food. Mites are usually too small to be seen themselves, ticks and fleas are bigger. They can make skin itchy and sometimes transmit other diseases.	mite) Ctenocephalides felis (cat flea) Rhipecephalus sanguineus (brown dog tick) which can carry Q fever and Erlichial diseases.	R 🖉 🐖

Source: Professor Richard Speare, Human Doctor and Veterinarian, James Cook University, Zoonoses training at QLD Health/AMRRIC Workshops, Yarrabah, 2008

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