

Parasite	Definitive Host / Location	Intermed. Host/ transmission	Geography	Pathology	Clinical	Diagnostic technique	Treatment / Control	Zoonotic? HOW?
<i>Trypanosoma cruzi</i> “rare DZ” Blood – trypo Cells – amast  <u>Hemoflagellate</u>	Canine Cardiac Muscle  (Many hosts)	Triatomid bugs (Reduviid)  Stercorarian transmission	S.America & C.America  Southern US & sporadic	Host cell DX by T. cruzi & autoimmune DZ	Acute: General Febrile DZ  Chronic: Cardiac DZ	Molecular  Tryps on Blood films	Manage heart failure, CDC controlled drugs ----- Vector, Breeding, Transfusion Screening	Yes Chagas Dz  Bug
<i>Leishmania infantum</i> “rare DZ” Macrophag- Amastigotes  <u>Hemoflagellate</u>	Canine Macrophage system  Dermal manifestation	Sandflies Phlebotomus, Lutzomyia  Salivarian transmission	SA, Europe, Africa Asia  Sporadic in US Foxhounds (autochthonous)	Host cell DX by <i>L. infantum</i> & autoimmune DZ	Acute: febrile DZ Dermal / ocular  Chronic: death by organ fail (kidney)	Molecular  Amastigote on cytology	CDC controlled drugs ----- Vector, Breeding, Transfusion Screening, Vaccines in Europe	Various human leishmaniasis  Sandfly
<i>Toxoplasma gondii</i>  Systemic Apicomplexan	Cat & Paratenic  ----- <b>Multisystem (brain, lungs, liver; muscle)</b>	<b>See Toxoplasma Table</b>						
<i>Neospora caninum</i>  <u>Canine DZ</u>  <u>Systemic Apicomplexan</u>	<b>Dog</b>  <b>Intestine and systemic</b>	Cattle -- Ingest oocyst from Canid feces (See abortion table) ----- <b>Dog ingest tissue cyst in cow placenta / offal</b>	Western US	Systemic: DX host cells / tissues by parasites & immune rxn. <b>Neuro preference</b>  Congenital: paralysis of hind limbs	<b>Adult dog:</b> . Non-specific multisystem DZ. <b>Neuro signs</b>  <b>Puppy:</b> <b>Flaccid hind limb, deaths</b>	Serology, Necropsy	None available ----- DX wild canids  No offal to dogs	NO
<i>Sarcocystis neurona</i>  <u>Systemic Apicomplexan</u>	Opossum  Intestine	<u>Accidental Host:</u> Horse  Horse ingests sporocysts from opossum feces	North America	Horse: Systemic: DX host cells / tissues by parasites & immune rxn Brain & spinal cord	Horse: Ataxia, Muscle atrophy, (gluteal, masseter), etc.	Horse: Western Blot assay of spinal fluid, PCR	Horse: Long term treatment ----- DX opossum poop	No

## Systemic Protozoa Table