

Chapter 1: Respiratory System: Bacterial: *Bordetella bronchiseptica*, *Streptococcus zooepidemicus*, *Mycoplasma*, *Chlamydia felis*. Viral: Canine influenza virus, Canine parainfluenza virus, Canine adenovirus, Feline herpesvirus, Feline calicivirus, Canine respiratory coronavirus. Fungal/Mycotic: *Cryptococcus*, *Aspergillus*, *Blastomyces*, *Coccidioidomyces*, *Histoplasma*. Parasitic/Protozoal: Nasal Mites (*Pneumonyssoides caninum*), *Dirofilaria*, *Angiostrongylus vasorum*, *Wolbachia*. Lungworms: *Oslerus osleri*, *Capillaria/ Eucoleus/Paragonimus, kellycotti*, *Aleurostrongylus*, *Crenosoma*, *Filaroides*.

Chapter 2: Enteric (GI): Bacterial GI: *Salmonella*, *Campylobacter*, *Clostridium perfringens*, *Clostridium difficile*, *Yersinia*. Other/clinical relevance: *E.coli*, *Helicobacter*. Viral GI: Canine parvovirus, Feline panleukopenia virus, Norovirus, Coronavirus, Rotavirus. Parasitic/Protozoal GI: *Cryptosporidium*, *Giardia*, *Coccidia*, *Tritrichomonas*, *Toxocara*, *Baylisascaris*, *Echinococcus*, *Taenia*, Whipworms, Hookworms, *Physaloptera*, *Heterobilharzia*, *Ollulanus*. Fungal GI: *Histoplasma*. Parasitic - Liver & pancreatic flukes: *Platynosomum concinnum*, *Eurytrema procyonis*.

Chapter 3: Urinary System: Bacterial: Bacterial Cystitis & pyelonephritis & prostatitis, Staph, Strep, *Enterococcus*, *E.coli*, *Leptospira*, MDR, *Mycoplasma*, *Ureaplasma*, *Coryne*, Fungal: UTI. Parasitic - Renal: *Diocotophyme renale*.

Chapter 4: Neurologic System: Bacterial: *Clostridium tetani*, *Clostridium botulinum*. Viral: Rabies, EEE, West Nile virus, Pseudorabies, Distemper, Prions.

Chapter 5: The Skin and Wounds: A. The Skin: Parasitic: *Otodectes*, *Demodex*, *Cheyletiella*, *Sarcoptes*, *Notoedres*, *Sporothrix*, *Cuterebra*. Fungal: Dermatophytes. Bacterial: *Pyoderma*, Otitis, Staph sp..B. Draining Wounds: Bacterial: *Nocardia*, *Actinomyces*, C. Atypical pathogens: Bacterial: *Mycobacterium-NTM*, TB & feline leprosy.

Chapter 6: Hematologic and Multi-system (Vector borne) Pathogens: Bacterial: *Bartonella*, *Ehrlichia*, *Anaplasma*, *Rickett*