**Student Reading Assignments**

**CBS 817, Fall 2023**

Over the course of the semester, students should read the following references for each topic covered, and answer the questions provided for that assignment. The answers to the questions can all be found in the assigned reference for that topic.

• For course credit, students must complete **ALL nine** of these assignments.

• This is an open book assignment, but it should be completed individually.

1. **Aquatic Emerging Diseases**
   * 1. Reference: McDermott, Colin, and Brian Palmeiro. "Updates on Selected Emerging Infectious Diseases of Ornamental Fish." *Veterinary Clinics: Exotic Animal Practice* 23.2 (2020): 413-428.
   1. What is considered the most sensitive diagnostic modality for Cyprinid herpesvirus 3?

* 1. What disinfectant has been shown to be extremely effective against Erysipelothrix?

1. **Avian anatomy + physiology** 
   * 1. Reference: Speer, Current Therapy in Avian Medicine and Surgery, pgs. 252-265
   1. List six differences between the avian and mammalian cardiovascular system.
2. **Crocodilia**
   * 1. Reference: Medical Evaluation of Crocodilians – Chapter 59, Fowler’s Zoo and Wild Animal Medicine, 9th edition.
   1. There is significant mortality in a group of juvenile captive crocodiles, whose clinical signs include bilateral panophthalmitis.  Name three infectious diseases that could lead to this presentation.
   2. What is the steatotheca of a crocodilian?
3. **Aquatic parasites**
   * 1. Reference: Techniques for addressing parasites in saltwater aquariums, Chapter 47—Fowler’s Zoo and Wild Animal Medicine, 9th edition.
   1. Why do praziquantel and formalin treatments both degrade significantly when applied to saltwater aquariums?

* 1. How would you diagnose a suspected *Eimeria southwelli* infection in a captive Cownose ray?

1. **Amphibian diseases**
   * 1. Reference: Divers, Reptile Medicine and Surgery, 3rd edition – Chapter 89: Amphibian medicine (pgs. 1001 – 1013)
   1. Compare and contrast the clinical signs associated with *B. dendrobatidis* (Bd) and *B. salamandrivorans* (Bs).
2. **Suids + Hippos**
   * 1. Reference: Suidae and Tayassuidae, Chapter 58—Fowler’s Zoo and Wildlife Animal Medicine, 8th edition.
   1. Why are exotic swine species prone to hyperthermia during anesthesia?
   2. Why is intubation challenging in suids?
3. **Felids**
   * 1. Reference: Felidae, Chapter 47—Fowler’s Zoo and Wildlife Animal Medicine, 8th edition.
   1. Sudden arousal from anesthesia has been reported in large cats when administered which anesthetic drug(s)?
   2. You have diagnosed an oral papilloma in a snow leopard.  What treatment would you recommend and why?
4. **Avian viral diseases**
   * 1. Reference: Bornaviruses in Birds, Chapter 65— Fowler’s Zoo and Wild Animal Medicine, 9th edition.
   1. What is the historic gold standard for diagnosis of PDD in a live bird?  What are two current diagnostic tests for this disease in birds?
5. **Mycobacteriosis** 
   * 1. Reference: Fitzgerald, S. D., and J. B. Kaneene. "Wildlife reservoirs of bovine tuberculosis worldwide: hosts, pathology, surveillance, and control." *Veterinary pathology* 50.3 (2013): 488-499.
   1. Name a wildlife reservoir host for bovine tuberculosis in the following regions:
      1. North America:
      2. UK:
      3. Spain:
      4. New Zealand: