**Student Reading Assignments**

**CBS 818, Spring 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. **Raptors**
	1. Reference: Chapter 74, Fowler’s Zoo and Wild Animal Medicine: Current Therapy (vol 10), pages 503-7

• Describe the typical lesions seen in raptors secondary to electrocution injury.

• The majority of lesions are typically seen how long after the initial injury?

• What types of electrocution wounds should lead to immediate euthanasia shortly after presentation?

1. **Sea turtles**
	1. Reference: Chapter 57, Fowler’s Zoo and Wild Animal Medicine: Current Therapy (vol 9). pgs 398-401.

• What is the most likely etiology of fibropapillomatosis (FP)?

• What is the typical signalment and geographic location of FP?

• What are treatment recommendations for FP?

1. **Reptile parasites**
	1. Reference: Chapter 32, Parasitology, Mader’s Reptile and Amphibian Medicine and Surgery, 3rd Ed. Pages

• Why is differentiation of species of cryptosporidium sp. important in reptiles that eat

whole prey?

• What are the two major clades of Cryptosporidium and which species are most

common in squamates vs chelonians?

1. **Ursids *(repeat from last semester)***
	1. Reference: Chapter 78, Fowler’s Zoo and Wild Animal Medicine: Current Therapy (vol 9). pgs 548-550.

 • What anatomic features distinguish Andean bears from other ursids?

1. **Water quality and aquatic systems**
	1. Reference: Hatfield, Clayton. Clinical Guide to Fish Medicine, 2021. Pages 35-44.

• What is a common reason for low DO?

• Describe the changes in dissolved oxygen (DO), carbon dioxide, and pH across the day in a

 large body of water.

• Which form of ammonia is more toxic to fish, and what are some causes for elevated

values in a water system?

1. **Rodents**
	1. Reference: Chapter 42, Fowler’s Zoo and Wild Animal Medicine, Vol 8. pgs 384-396.

• What important enzyme are guinea pigs lacking?

• Describe the dental anatomic differences between the main suborders of rodents.

1. **Reptile analgesia**
	1. Reference: Chapter 60, Fowler’s Zoo and Wild Animal Medicine: Current Therapy (vol 9). pgs 421-432.

•. What commonly used analgesic has been found to NOT be an effective analgesic in red-

eared slider turtles, bearded dragons, corn snakes, and ball pythons? (THIS IS IMPORTANT!)

• What class of opioids is recommended for analgesia in most reptile species studied to

date?

1. **Bovids**
	1. Reference: Chapter 91, Fowler’s Zoo and Wild Animal Medicine: Current Therapy (vol 9). pgs 641-645.

• What are the typical histopathologic findings of Capripoxviruses CaPV infections?

• What are the differences between host species and geographic distribution of SPPV, GTPV, and LSDV?

1. **Passerines/Columbiformes**
	1. Reference: Chapter 64, Fowler’s Zoo and Wild Animal Medicine: Current Therapy (vol 9). pgs 454-459

• Describe the transmission patterns of Isospora.

• What is the characteristic gross lesion and gold standard for diagnosis of systemic isoporosis in passerines?