Brain Camp Online Part II – Neuropathology: Part II

Content Launch Date: **Monday, October 4, 2021**
Live Q&A with the Presenters: **Tuesday, October 26, 2021, 8:00 am PDT / 10:00 am CDT / 11:00 am EDT**

This 5-hour course will provide an overview of neuropathology, with a particular focus on spinal cord diseases. A general review of normal spinal cord histopathology will precede discussion of large and small animal spinal pathologies.

All topics will be presented in 50 – 60 minute pre-recorded sessions.

Neuropathology – Part II	
Topic / Description and Learning Objectives	**Presenter**
Module 1: An Introduction to Spinal Cord Embryology, Anatomy, and Malformations This session will provide an overview of embryologic development of the spinal cord, a review of basic anatomy and histology, and conclude with a discussion of common spinal malformations. Upon completion of the course, participants should be able to: • Be familiar with the embryologic development of the spinal cord and associated structures. • Recognize the basic anatomic regions of the spinal cord and their histologic correlates. • Define the common spinal malformations and how to recognize them.	Andrew Miller, DVM, DACVP (Anatomic)
Module 2: Degenerative Diseases of the Central Nervous System This session will provide an in-depth overview of important degenerative diseases of the central nervous system that effect domestic animals including large animals. Upon completion of the course, participants should be able to: • Be familiar with the basic neuropathologic terms commonly used in neurodegenerative diseases. • Identify the critical neuropathologic features of degenerative myelopathy and compare and contrast degenerative myelopathy in different species. • Recognize the differences between equine neuroaxonal dystrophy and equine motor neuron disease. • Be familiar with common degenerative disorders that can affect the spinal cord.	Andrew Miller, DVM, DACVP (Anatomic)

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Module 3: Spinal Neoplasia This session will provide a thorough overview of how to localize neoplasia affecting the spinal cord and the primary differentials based on location. Upon completion of the course, participants should be able to: • Provide a list of differentials for tumors occurring extradural, intradural-extramedullary, and intradural-intramedullary. • Recognize the common pathologic features of each tumor. • Prioritize tumor differentials based on signalment, tumor location, and presentation.	Andrew Miller, DVM, DACVP (Anatomic)
Module 4: Inflammatory, Traumatic, and Circulatory Conditions of the Spinal Cord (2 hours) This session will provide a detailed overview of inflammatory (including infectious), circulatory and traumatic conditions that can affect the spinal cord of domestic animals, including large animals. Upon completion of the course, participants should be able to: • Be familiar with infectious conditions that can affect the spinal cord in domestic animals (including large animals). • List pathways of spread for disease process in the spinal cord and most common agents associated with different pathways. • List the most common circulatory conditions affecting the spinal cord in different domestic species. • Be familiar with the neuropathologic features of intervertebral disc disease.	Alina Demeter, DVM, PhD, DACVP (Anatomic)