

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 6-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
<p>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.</p> <p>Upon completion of the course, participants should be able to:</p> <ul style="list-style-type: none"> • 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. 	<p>Andrew Miller, DVM, DACVP (Anatomic)</p>
<p>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.</p> <p>Upon completion of the course, participants should be able to:</p> <ul style="list-style-type: none"> • 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. 	<p>Andrew Miller, DVM, DACVP (Anatomic)</p>

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<p>Module 3: Spinal Neoplasia (2 hours) This session will provide a thorough overview of how to localize neoplasia affecting the spinal cord and the primary differentials based on location.</p> <p>Upon completion of the course, participants should be able to:</p> <ul style="list-style-type: none"> • 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. 	<p>Andrew Miller, DVM, DACVP (Anatomic)</p>
<p>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.</p> <p>Upon completion of the course, participants should be able to:</p> <ul style="list-style-type: none"> • 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. 	<p>Alina Demeter, DVM, PhD, DACVP (Anatomic)</p>