

Advanced Continuing Education

North American Neuroscience Course (Brain Camp) Advanced Diagnostic Imaging AGENDA 2022 On Demand

Advanced Diagnostic Imaging		
Торіс	Presenter(s)	
 MRI Basic Physics, Sequences and Techniques: Part I Develop a functional understanding of basic MRI physics and hardware Describe the advantages of common MRI pulse sequences and the use of contrast media Recognize artifacts and understand corrective actions 	Dr. John Griffin	
 MRI Basic Physics, Sequences and Techniques: Part II Develop a functional understanding of basic MRI physics and hardware Understand the advantages of common MRI pulse sequences and the use of contrast media Recognize artifacts and understand corrective actions 	Dr. John Griffin	
 Approach to the MRI Examination of the Brain Develop a functional understanding of how specific pulse sequences answer specific questions Correctly classify intracranial lesions based on location Recognize signs of increased intracranial pressure 	Dr. John Griffin	
 MRI of Congenital Brain Diseases Explain imaging features suggesting significant ventriculomegaly/hydrocephalus Identify abnormal intracranial fluid accumulations, and understand their clinical significance Recognize imaging findings seen with meningoencephalocele, holoprosencephaly/corpus callosum abnormalities, lissencephaly, Chiari-like malformation, and other congenital brain abnormalities 	Dr. Silke Hecht	
 MRI of Brain Aging, Degenerative and Metabolic Encephalopathies Recognize changes expected with normal canine and feline brain aging Identify abnormalities seen with degenerative, metabolic, toxic and nutritional brain diseases in dogs and cats and rank appropriate differential diagnosis Understand that not all bilaterally symmetric brain lesions are metabolic in etiology 	Dr. Silke Hecht	

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 MRI of Vascular Brain Diseases and Brain Trauma Recognize the appearance of ischemic brain lesions on MRI including diffusion-weighted imaging and ADC map Identify the appearance of hemorrhage at different stages on MRI Describe the respective merits of MRI versus CT and imaging of canine and feline head trauma 	Dr. Silke Hecht
Clinical Cases – Brain Develop an organized approach to the interpretation of a brain MRI study 	
 Identify MRI sequences Identify abnormalities on small animal brain MRI studies and derive appropriate differential diagnoses 	Dr. John Griffin, Dr. Silke Hecht
MRI of Inflammatory Brain Diseases	
 Explain the wide variety of MRI findings with inflammatory brain diseases Describe which imaging features are more likely to indicate inflammatory encephalopathies over neoplastic, vascular and metabolic diseases 	Dr. Silke Hecht
 Recognize certain inflammatory brain diseases (e.g., FIP, neospora, canine blastomycosis) based on fairly specific imaging findings 	
MRI of Brain Tumors	
 Develop an understanding of typical features of common brain tumors Correctly classify intracranial lesions based on location Derive appropriate differential diagnoses 	Dr. John Griffin
MRI of the Vertebral Column and Spinal Cord: Part I	
 Develop a functional understanding of how specific pulse sequences answer specific questions Correctly classify spinal lesions based on location 	Dr. John Griffin
Recognize signs of spinal cord compression and aggressive bone disease	
MRI of the Vertebral Column and Spinal Cord: Part II	
 Develop a functional understanding of how specific pulse sequences answer specific questions Correctly classify spinal lesions based on location 	Dr. John Griffin
Recognize signs of spinal cord compression and aggressive bone disease	

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 CT: Basic Principles and Brain Diseases Understand CT windowing (window level and window width) as it pertains to small animal neuroimaging Systematically evaluate the canine and feline brain on CT, recognize abnormalities, and rank appropriate differential diagnoses Recognize the advantages and disadvantages of CT compared to MRI when imaging the brain 	Dr. Silke Hecht
 CT: Vertebral Column Diseases Systematically evaluate the canine and feline spine on CT, recognize abnormalities, and rank appropriate differential diagnoses Understand the advantages and disadvantages of CT compared to MRI when imaging the spine 	Dr. Silke Hecht
 Clinical Cases – Spinal Cord Develop an organized approach to the interpretation of spine MRI and CT studies Identify MRI sequences and CT windows Identify abnormalities on small animal spine MRI and CT studies and derive appropriate differential diagnoses 	Dr. John Griffin, Dr. Silke Hecht

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