

North American Neuroscience Course (Brain Camp)
July 30, 2022 - August 14, 2022
University of Florida | Gainesville, FL

| Advanced Diagnostic Imaging DAY 1: Saturday, July 30, 2022 | | |
|---|--|-------------------------|
| Time (Eastern Time) | Topic | Presenter(s) |
| 7:30-8:00 am | Registration | |
| 8:00-9:00 am | MRI Basic Physics, Sequences and Techniques: Part I <ul style="list-style-type: none"> • 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 | <i>Dr. John Griffin</i> |
| 9:00-10:00 am | MRI Basic Physics, Sequences and Techniques: Part II <ul style="list-style-type: none"> • 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 | <i>Dr. John Griffin</i> |
| 10:00-10:15 am | Break Sponsored by VetCT | |
| 10:15-11:15 am | Approach to the MRI Examination of the Brain <ul style="list-style-type: none"> • 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 | <i>Dr. John Griffin</i> |
| 11:15am-12:00 pm | MRI of Congenital Brain Diseases <ul style="list-style-type: none"> • 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 | <i>Dr. Silke Hecht</i> |
| 12:00-1:00 pm | Lunch Break Sponsored by VetCT | |

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| Advanced Diagnostic Imaging DAY 1 CONTINUED: Saturday, July 30, 2022 | | |
|---|--|--|
| Time (Eastern Time) | Topic | Presenter(s) |
| 1:00-1:45 pm | MRI of Brain Aging, Degenerative and Metabolic Encephalopathies <ul style="list-style-type: none"> 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 | <i>Dr. Silke Hecht</i> |
| 1:45-2:45 pm | MRI of Vascular Brain Diseases and Brain Trauma <ul style="list-style-type: none"> 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 | <i>Dr. Silke Hecht</i> |
| 2:45-3:00 pm | Break Sponsored by VetCT | |
| 3:00-4:30 pm | Clinical Cases – Brain <ul style="list-style-type: none"> 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 | <i>Dr. John Griffin, Dr. Silke Hecht</i> |

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| Advanced Diagnostic Imaging DAY 2: Sunday, July 31, 2022 | | |
|---|--|-------------------------|
| Time (Eastern Time) | Topic | Presenter(s) |
| 8:00-9:00 am | MRI of Inflammatory Brain Diseases <ul style="list-style-type: none"> 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 Recognize certain inflammatory brain diseases (e.g., FIP, neospora, canine blastomycosis) based on fairly specific imaging findings | <i>Dr. Silke Hecht</i> |
| 9:00-10:00 am | MRI of Brain Tumors <ul style="list-style-type: none"> Develop an understanding of typical features of common brain tumors Correctly classify intracranial lesions based on location Derive appropriate differential diagnoses | <i>Dr. John Griffin</i> |
| 10:00-10:15 am | Break Sponsored by VetCT | |
| 10:15-11:15 am | MRI of the Vertebral Column and Spinal Cord: Part I <ul style="list-style-type: none"> Develop a functional understanding of how specific pulse sequences answer specific questions Correctly classify spinal lesions based on location Recognize signs of spinal cord compression and aggressive bone disease | <i>Dr. John Griffin</i> |
| 11:15am-12:00 pm | MRI of the Vertebral Column and Spinal Cord: Part II <ul style="list-style-type: none"> Develop a functional understanding of how specific pulse sequences answer specific questions Correctly classify spinal lesions based on location Recognize signs of spinal cord compression and aggressive bone disease | <i>Dr. John Griffin</i> |
| 12:00-1:00 pm | Lunch Break Sponsored by VetCT | |

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| Advanced Diagnostic Imaging DAY 2 CONTINUED: Sunday, July 31, 2022 | | |
|---|---|--|
| Time (Eastern Time) | Topic | Presenter(s) |
| 1:00-2:00 pm | CT: Basic Principles and Brain Diseases <ul style="list-style-type: none"> • 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 | <i>Dr. Silke Hecht</i> |
| 2:00-2:45 pm | CT: Vertebral Column Diseases <ul style="list-style-type: none"> • 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 | <i>Dr. Silke Hecht</i> |
| 2:45-3:00 pm | Break Sponsored by VetCT | |
| 3:00-4:30 pm | Clinical Cases – Spinal Cord <ul style="list-style-type: none"> • 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 | <i>Dr. John Griffin, Dr. Silke Hecht</i> |

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