Case #16, N04-845

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42nd Annual
CL Davis Gross Pathology Review Course
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University of Tennessee
College of Veterinary Medicine
Knoxville, Tennessee
Signalment and History

- Juvenile male Golden Eagle
Clinical Findings

• Unwilling to stand
Clinical Findings

• Unwilling to stand
• Nystagmus and torticollis
Clinical Findings

- Unwilling to stand
- Nystagmus and torticollis
- Lead levels
Clinical Findings

• Unwilling to stand
• Nystagmus and torticollis
• Lead levels
• No improvement
Clinical Findings

- Unwilling to stand
- Nystagmus and torticollis
- Lead levels
- No improvement
- Euthanized
Gross Findings

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RMRP permanently disabled education eagle
Histologic Findings
Morphologic Diagnosis

- Marked multifocal necrotizing encephalitis with intralesional protozoa (*Sarcocystis sp.*, presumptive)
Discussion

- *Sarcocystis falcataula*
Discussion

- *Sarcocystis falcatoria*
- Apicomplexan
Discussion

• *Sarcocystis falcatula*
• Apicomplexan
• Two host life cycle
Discussion

- *Sarcocystis falcatoria*
- Apicomplexan
- Two host life cycle
- Raptors
Discussion

• *Sarcocystis falcatula*
• Apicomplexan
• Two host life cycle
• Raptors
• Muscular, visceral and nervous forms
Additional Thoughts

• Another Sarcocystis sp.?
Additional Thoughts

- Another Sarcocystis sp.?
- Differentials
Additional Thoughts

• Another Sarcocystis sp.?
• Differentials
• Polymerase Chain Reaction or Immunohistochemistry
Thank You!

- Dr. Linden Craig
- University of Tennessee Exotics Department
- UT Histology Lab
- Fellow Residents and Anatomic Pathologists
Questions?

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