Case 40

Mineralization in a Bongo
(*Tragelaphus eurycerus*)

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Signalment & History

• 5 year-old, female bongo
• 2 month history
  – knuckling left hind limb
  – splay-legged
  – licking hind limbs
• Signs progressed several days before euthanasia
Gross Findings

• Hind limb skeletal muscle
  – Tan foci, 3 cm to 4 cm
• Sciatic nerves and brachial plexi
  – Gritty
• Abraded skin
• Serous atrophy of fat
• Hepatic atrophy
• Abomasal ulcers
• 24 cm crown-rump autolyzed male fetus *in utero*
Morphologic Diagnoses

- Skeletal muscle: moderate to severe, polyphasic, multifocal myonecrosis, myodegeneration and mineralization

- Peripheral nerve: moderate to severe, multifocal mineralization and fibrosis
Discussion

• Muscular, neural and vascular mineralization
• No mineralization of renal tubules, abomasal mucosa, endocardium or lung
• Metastatic mineralization from hypercalcemia and/or hyperphosphatemia considered unlikely
• Involvement of the nervous tissue and blood vessels makes vitamin E/selenium deficiency or myotoxic plants unlikely
• Unknown etiology