May 2013
LADIS Case of the Month
Answer

Image Interpretation

- Decreased serosal detail consistent with age and body condition of patient.
- Subjectively the kidneys are prominent (for age and body condition).
- Urinary bladder not well defined.

Image Interpretation

- There is a curvilinear mineral opacity along the margins of a gastric compartment- suspected to be C3.

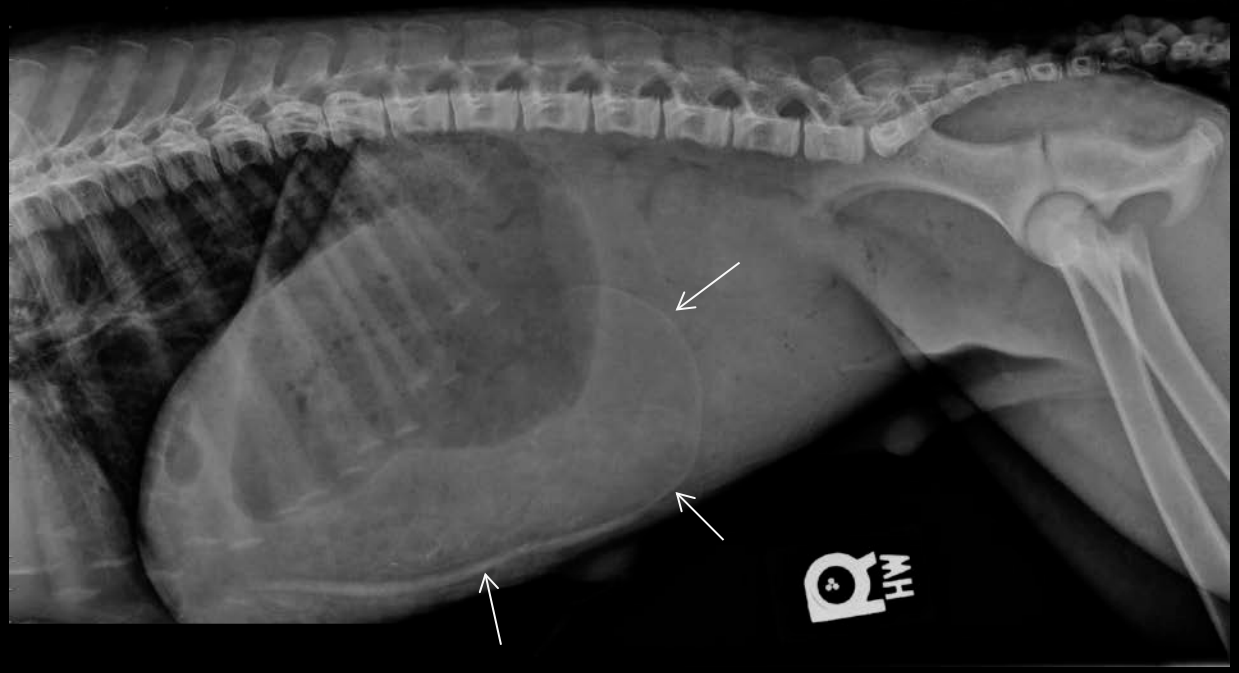
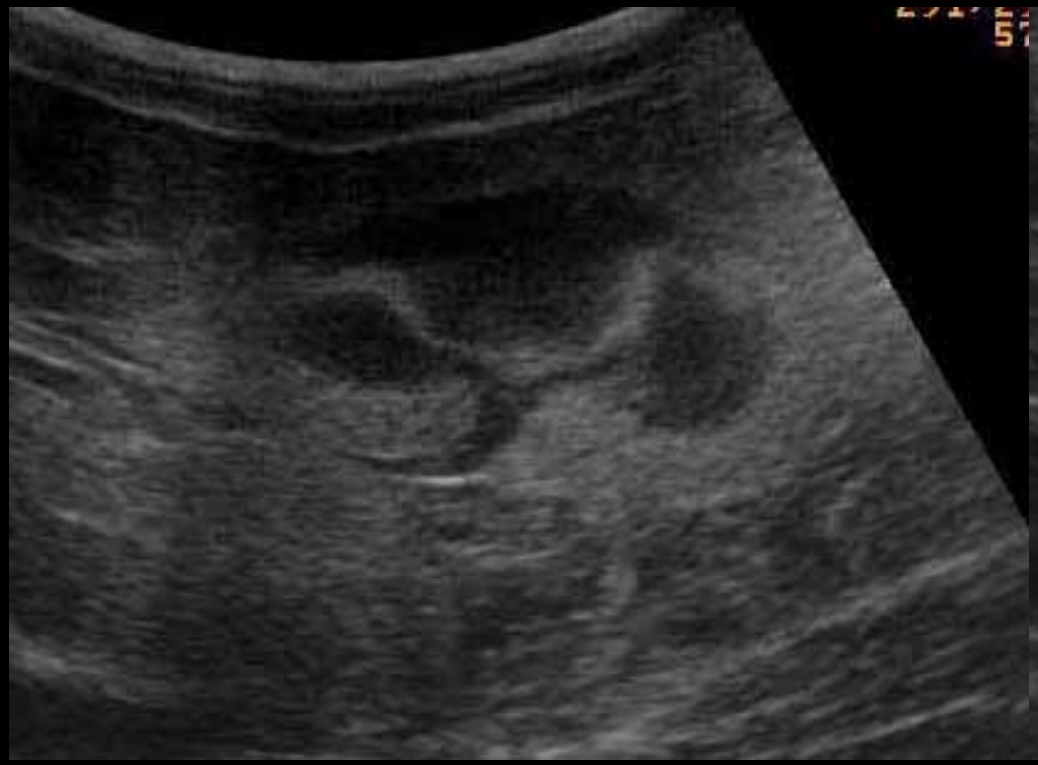


Image Interpretation

- Diffuse increased renal cortical echogenicity with prominent corticomedullary distinction.



Radiographic Diagnosis

- Metastatic mineralization of the third compartment (+/- kidneys) likely secondary to metabolic disease (suspect Vitamin D toxicity)

Ultrasound Diagnosis

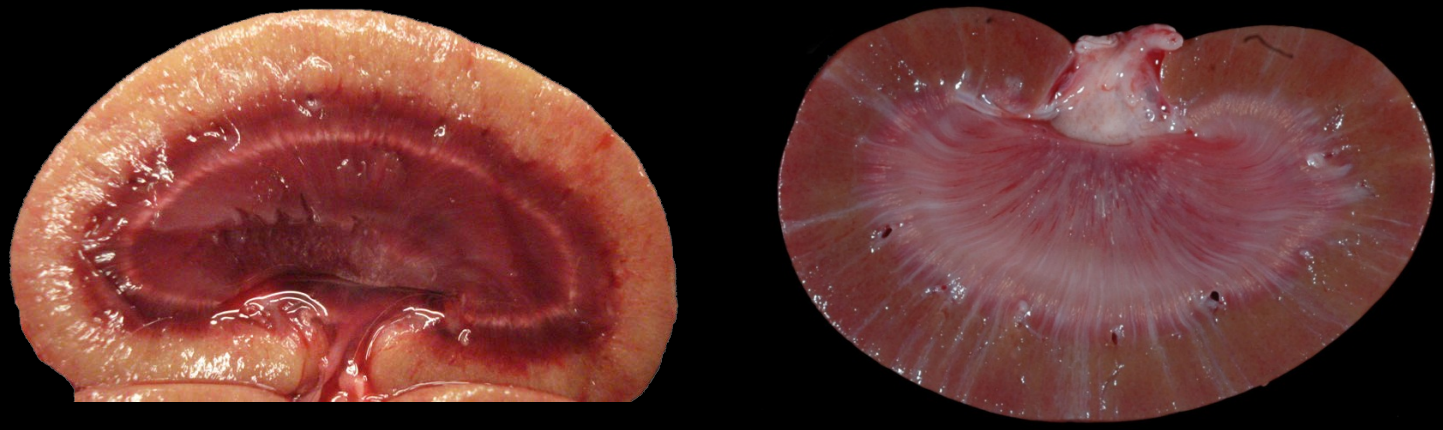
- Suspect renal cortical mineralization based on other findings; although dysplasia or other infiltrative nephropathies such as nephritis also considered.

Follow-up

- Cria was diagnosed with anuric renal failure. Even with aggressive medical treatment, the cria continued to worsen and was euthanized. The changes were suspected to be secondary to Vit D overdose. Vitamin D supplementation in alpacas is recommended to prevent hypophosphatemic rickets, but it was determined this cria was given approximately 26X the recommended dose.

Follow-up

- At necropsy, mineralization of the third compartment, aorta and kidneys was identified. Changes in the kidneys were considered severe enough to cause the renal failure.



Gross appearance of kidneys from crias with similar diagnosis.