



PATIENT PRESENTING CLINICAL SIGNS

Calli Stroman History: Patient has had a decreased appetite for 2 months. She has lost 2lbs since November 2020. She will pick at her foot and will usually eat 1 meal per day. She is mildly azotemic and was changed to KD diet (which she eats poorly). She also has elevation in ALT/ALP. AUS to look at kidney and liver.
SPECIES Looking for causes of decreased appetite including pancreatitis and neoplasia.

Canine Abnormal PE/Chem/CBC/UA Results: SDMA 20, Crea 1.7, BUN 56, ALT 356, ALP 444, USG 1.018

BREED ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Westie Mix *Urinary System*

SEX A trace amount of sand was noted in the **urinary bladder**, non-obstructive. Urethral sand also present. The patient is likely passing sand and small calculi periodically and contributing to the clinical profile. The deep pelvic urethra revealed an irregular thickening, measuring 2.4 cm x 1.0 cm strongly concerned for urethral carcinoma in this patient.
Spayed Female

AGE The **kidneys** presented a moderate interstitial nephritis pattern with pelvic mineralization (8.0 mm). The right kidney measured 3.38 cm. An anechoic cyst (0.68 cm x 0.48 cm) was noted in the left kidney. Pelvic mineralization was noted throughout the left kidney. The left kidney measured 3.94 cm. 15 Years Degenerative changes are considered moderate to end-stage.

WEIGHT *Adrenal Glands*

11.1 Pounds Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The right adrenal gland measured 0.45 cm at the cranial pole and 0.39 cm at the caudal pole. The left adrenal gland measured 0.47 cm at the caudal pole and 0.49 cm at the cranial pole.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Spleen

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes were noted.

IMAGING PERFORMED BY

Pamela Harrigan, RDCS

Liver

HOSPITAL NAME

Anchor AH

The **liver** revealed uniform vacuolar hepatopathy pattern with increased portal markings, coarse architecture and remodeling. No evidence of neoplasia. The gallbladder and common bile duct were unremarkable.

REFERRING VET

Dr. Katherine Pietsch,
DMV

Gastrointestinal

The **pylorus** revealed minor muscularis hypertrophy. The small intestine maintained curvilinear patterns with regional areas of mucosal striations. Intestinal wall thickness measured 0.46 cm.

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Pancreas

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Some mild parenchymal remodeling, however, with mild deviation from curvilinear normalcy was observed. Pancreatic duct and capsular irregularities were present consistent with age related

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changes. If pain upon imaging (+ Murphy sign) was present or if the patient is focally painful in subxyphoid palpation then low-grade smoldering chronic pancreatitis should be suspected.

SPECIES

Canine

ULTRASONOGRAPHIC FINDINGS

BREED

Westie Mix

- Chronic interstitial nephritis renal pattern with cortical cysts and calculi, subjectively near end-stage
- Slight bladder and urethral sand
- Irregular thickening in the deep pelvic urethra, strongly concerned for emerging urethral carcinoma in this patient- cystoscopy warranted with appropriate urethral biopsies
- Vacuolar hepatopathy pattern
- Age-related pancreatic changes
- Pylorus, minor muscularis hypertrophy
- Small intestine, regional areas of mucosal striations

SEX

Spayed Female

AGE

15 Years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

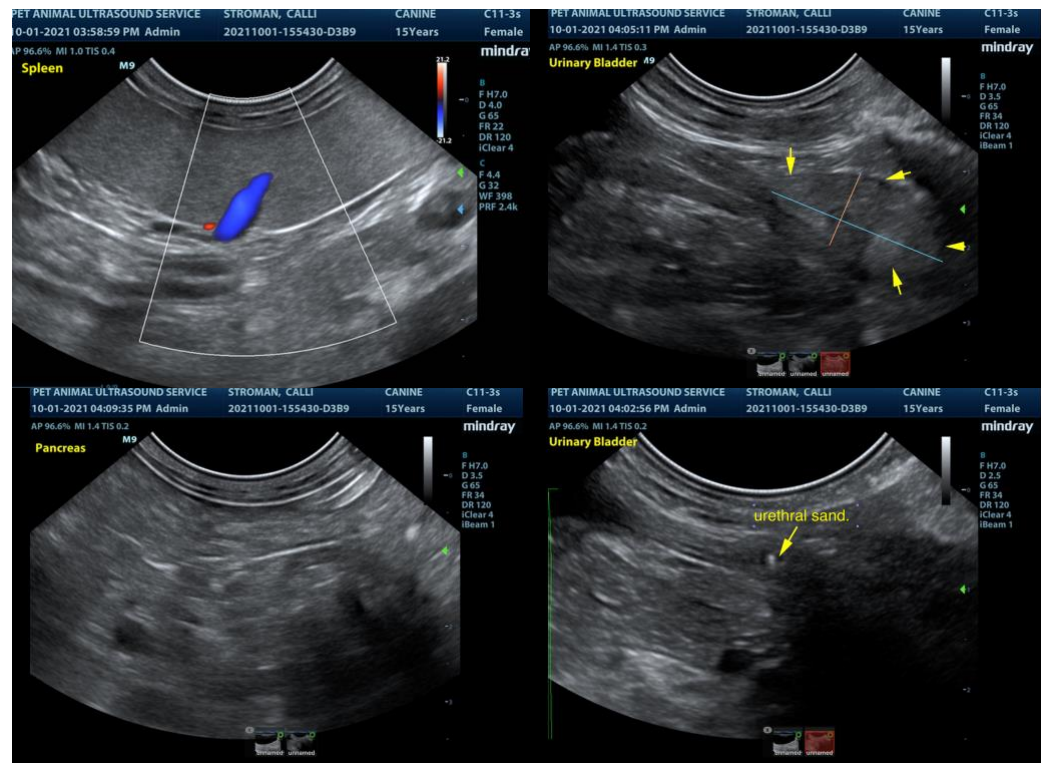
The patient is likely passing sand and small calculi periodically and contributing to the clinical profile. 72-hour IV fluid protocol and reassessment of the clinical signs recommended. Cystoscopy warranted with appropriate urethral biopsies.

WEIGHT

11.1 Pounds

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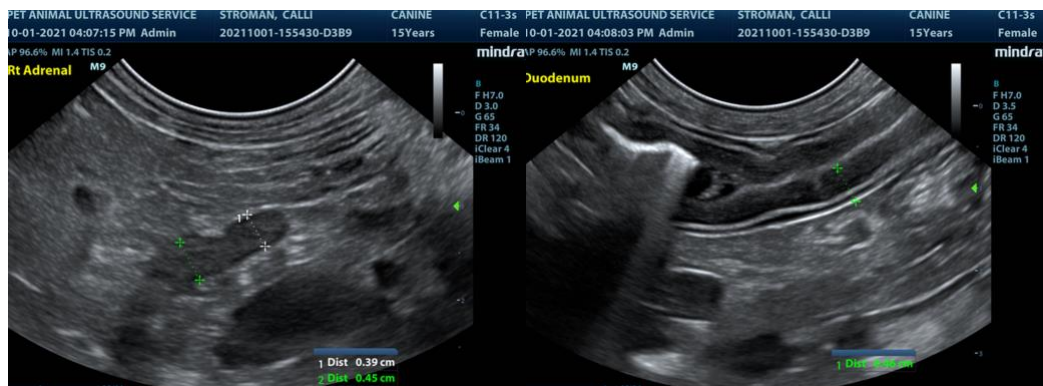
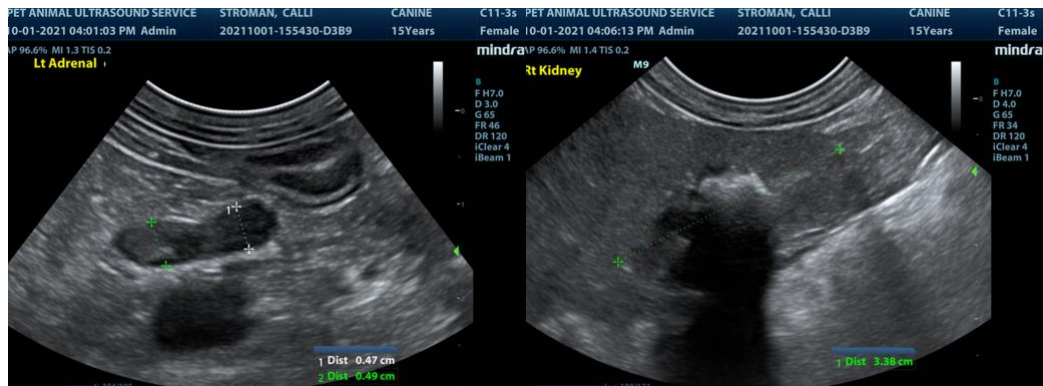
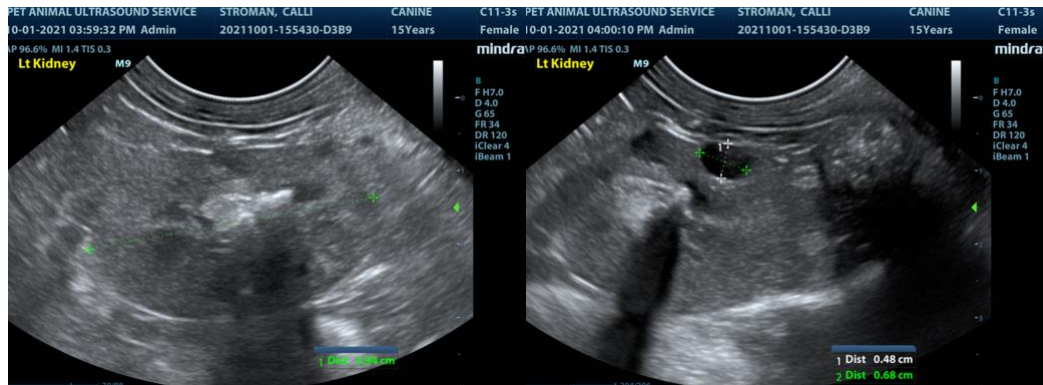
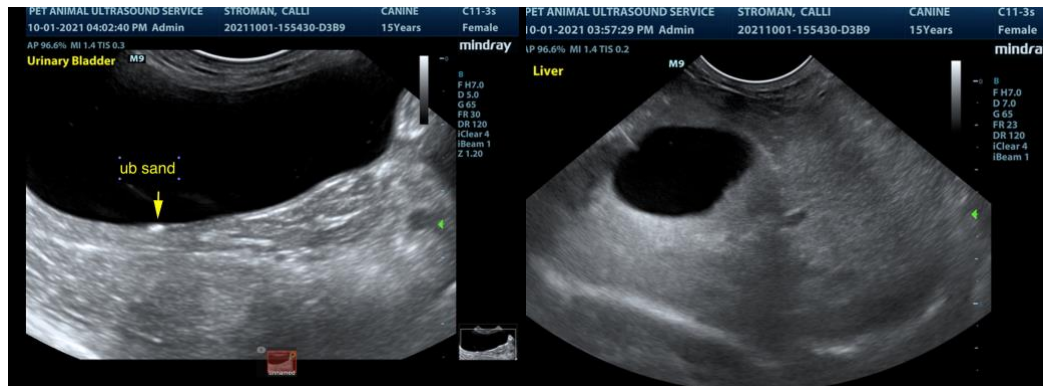
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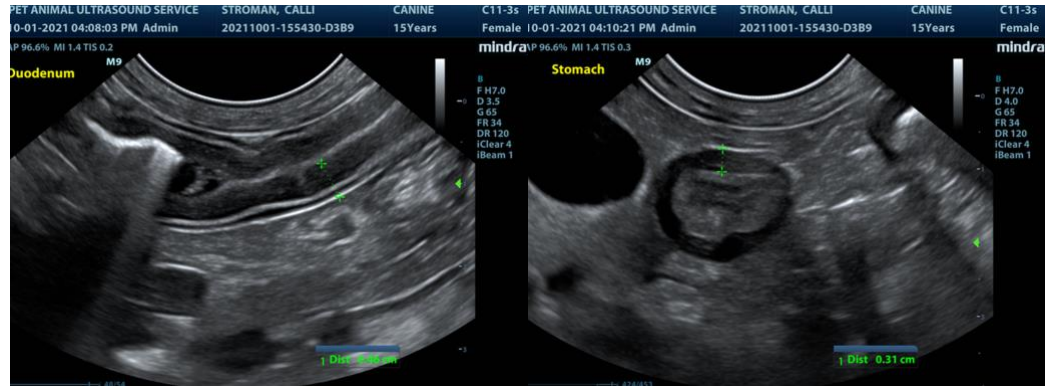
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SPECIES
 Canine
BREED
 Westie Mix



SEX
 Spayed Female

AGE
 15 Years

WEIGHT
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

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