



PATIENT

Sophie Gordon

SPECIES

Canine

BREED

Lhasa Apso

SEX

Spayed Female

AGE

14 years

WEIGHT

28 lbs

PRESENTING CLINICAL SIGNS

History: ADR, Eating normal, PU/PD

Abnormal PE/Chem/CBC/UA Results: ALP 1600 Creat 3.9 BUN 93 UA via Cysto Hematuria sp grav 1016 Trace protein

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **bladder** in this patient was mildly thickened with slight echogenic mural changes. The pelvic urethra was imaged 2.0 cm beyond the cystourethral junction. No calculi or masses were noted. Slight micropolypoid changes were noted. This is a frequent finding in older animals and may be linked to a history of chronic urinary tract infection or active urinary tract infection. Urinalysis would be recommended with culture if any evidence of inflammatory sediment is present. The region of the trigone and visible pelvic urethra were normal.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for this age patient. Medullary structure differed distinctly from that of the cortex. The left kidney measured 4.0 cm with corticomedullary calculi and pelvic calculi. The left kidney revealed slight pyelectasia. Occasional cortical cysts were noted in the kidneys. The right kidney measured 4.0 cm with pyelectasia and calculi. Blood flow to the kidneys appeared to be adequate.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Mack/Griffin

HOSPITAL NAME

Northside VC

REFERRING VET

Dr. Mack

INVOICE

91872

DATE

9/16/21

Adrenal Glands

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 left adrenal gland measured 0.5 cm. The right adrenal gland measured 0.6 cm.

Spleen

The **spleen** in this patient was mildly enlarged with uniform parenchyma and was folded upon itself cranially. This is a positional variant and is not pathological. There was no evidence of significant disease.

Liver

The **liver** was uniformly swollen with minor, excessive gallbladder debris and over distension with dependent and suspended bile without evidence of overt mucocele formation. However, excessive sludge was present. The liver presented coarse architecture with mildly increased portal markings and subtle, mixed echogenic changes. This is consistent with vacuolar hepatopathy and some level of remodeling and history of inflammatory component. There was no overt suspicion of neoplasia.



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Gastrointestinal

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There was retention of ingesta noted in the **stomach**. However, the pylorus was patent. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

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Pancreas

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The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Some parenchymal remodeling, however, with mild deviation from curvilinear normalcy was observed. Pancreatic duct and capsular irregularities were present consistent with age related changes. If pain upon imaging (+ Murphy sign) was present or if the patient is focally painful in subxiphoid palpation then low-grade smoldering chronic pancreatitis should be suspected.

SEX

Spayed Female

Free Abdomen

AGE

14 years

A large amount of abdominal fat was noted in this patient.

WEIGHT

28 lbs

ULTRASONOGRAPHIC FINDINGS

Acute on chronic renal disease with calculi. A recent infarct was noted at the caudal pole of the right kidney.

Geriatric abdominal changes were noted elsewhere along with gastric stasis. This is likely owing to metabolic ileus.

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Eric Lindquist, DMV
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The patient may be passing calculi periodically. The kidneys subjectively do not appear end stage and subjectively appear 50% compromised. Urine culture and sensitivity, 72-hour IV fluid protocol and blood pressure measurements are all indicated. Reassessment of the azotemia is recommended. The prognosis is guarded long term.

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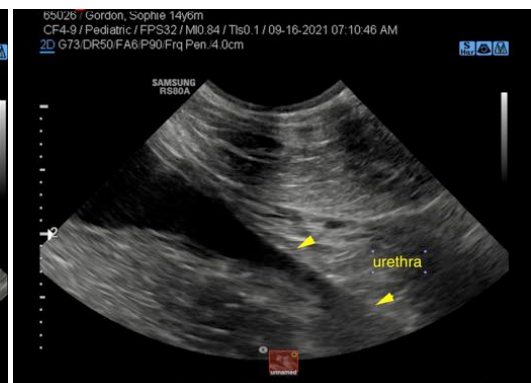
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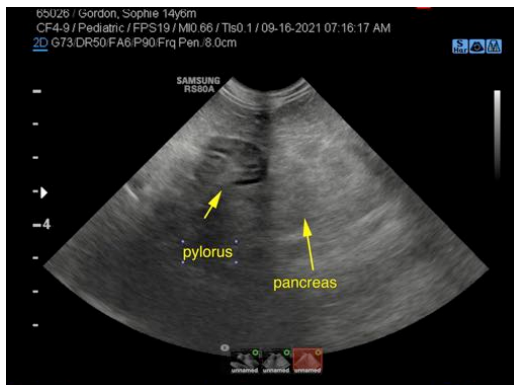
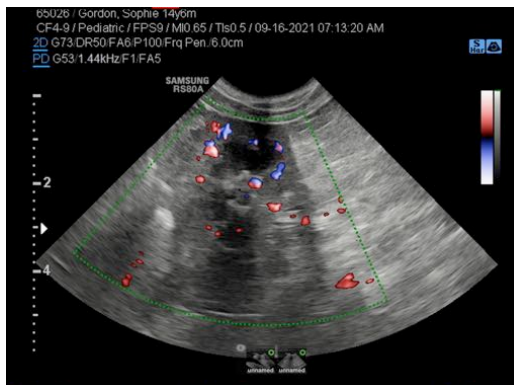
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

SPECIES

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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.

BREED

Lhasa Apso

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