



PATIENT PRESENTING CLINICAL SIGNS

Marily Goff

History: Patient has a history of elevated ALT and Alk Phos that has continued to rise. Most recent CBC was normal and the T4 was low end of normal but improved from previous bloodwork. Per owner, she is drinking and urinating excessively as well as having accidents in the house daily. She also had a bloated appearance noted at her last physical. Radiographs taken on 8/9/22 showed the left kidney was within normal limits with no obvious mineralization. Some hepatomegaly present but borders were still pointed. The right kidney was difficult to view on both the VD and lateral view. Patient was recently started on Denamarin and owner noted very minimal improvement of the urinary issues since being on that.

SPECIES

Canine

BREED

Pomeranian Mix

Abnormal PE/Chem/CBC/UA Results: Attached are the most recent bloodwork results from 8/10/22

SEX

Spayed female

Urinary System

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

AGE

10 years

WEIGHT

12.6 lbs

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 his age patient. Medullary structure differed distinctly from that of the cortex. Cortical cysts were noted. Pyelectasia was noted in the kidneys. Slight cortical mineralization were noted. The left kidney measured 3.86 cm. The right kidney measured 4.3 cm.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Adrenal Glands

The left **adrenal gland** was visualized obliquely yet swollen and at the upper limits of normal. The left adrenal measured 0.67 cm. The right adrenal gland was visualized and measured 0.95 cm and 0.85 cm at the cranial pole.

IMAGING PERFORMED BY

Sammy Burmeister

HOSPITAL NAME

Faith AC

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 was noted.

REFERRING VET

Dr. Faith

INVOICE

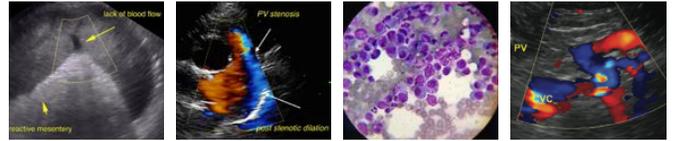
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Liver

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

DATE

8/25/22



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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

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. 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.

BREED

Pomeranian Mix

Pancreas

SEX

Spayed female

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.

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WEIGHT

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ULTRASONOGRAPHIC FINDINGS

Benign hepatopathy with inflammatory component.

Bilateral adrenal hypertrophy.

Moderate degenerative renal changes with cortical cysts.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUS

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

FNA of the liver is indicated for further definition. There is no evidence or suspicion of neoplasia. If the patient appears Cushingoid pituitary dependent hyperadrenocorticism may be playing a role. There was no evidence of neoplasia.

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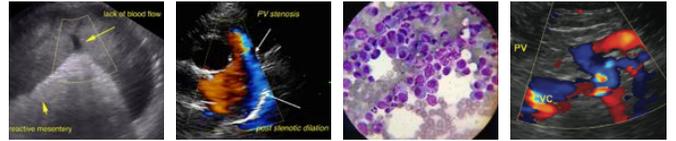
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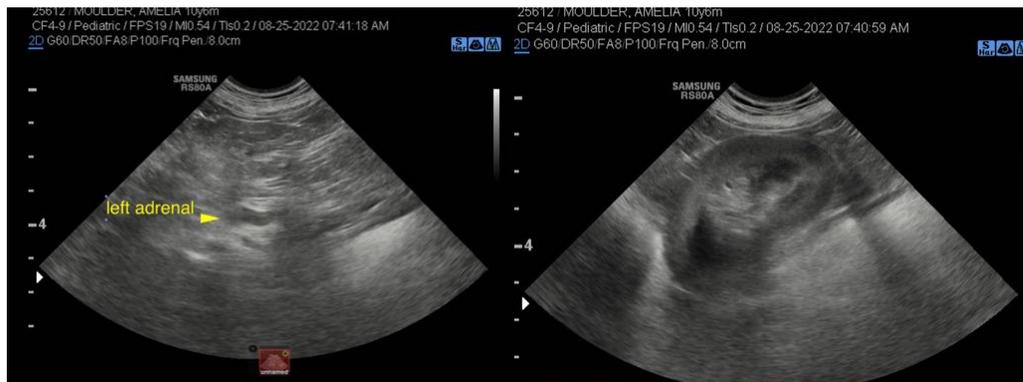
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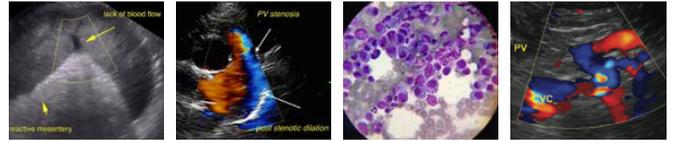
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

SPECIES

Canine

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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com
info@SonoPath.com

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