



PATIENT

Chloe Tharani

PRESENTING CLINICAL SIGNS

Hematuria, PU PD presently has a UTI

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: UA blood struvite crystals Staph pseudo intermediate on culture

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Chihuahua

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra exhibited normal tone. Potential for mild non-obstructive mineral in the cystourethral junction and proximal urethra possible. The bladder walls appeared to be overtly normal without inflammatory criteria. Multifocal variably sized echogenicities with distal acoustic shadowing were present in the dependent lumen. An example of an echogenicity measured 0.85 cm width. Concurrent dependent hyperechoic to shadowing mineral along with non-dependent particulate sediment. The sediment may indicate concurrent cellular debris / protein, crystalline debris, lipid, or mucus. No evidence of urinary bladder tumors.

SEX

FS

AGE

8

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. Pinpoint areas of medullary mineral were present. The left kidney measured 3.3 cm in length. The right kidney measured 3.4 cm in length.

WEIGHT

4kg

The area of the aortic trifurcation was free of pathology.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.31 cm width at the caudal pole and 0.39 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.37 cm width at the caudal pole.

Spleen

The spleen exhibited normal size and subtle parenchyma heterogeneity. A solitary non-disruptive discrete hypoechoic nodule was present measuring 0.42 cm in diameter. The nodule is likely consistent with benign nodular process such as focal lymphoid hyperplasia, hematopoiesis or similar. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. No evidence of splenic neoplastic criteria.

Liver

The liver was subjectively normal in size, structure, and contour. The liver parenchyma was uniform and hypoechoic to the spleen with a mild coarse echotexture. The hepatic and portal vasculature were normal in appearance without signs of congestion. No evidence of a portosystemic shunt. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

Gastrointestinal

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained mild non-shadowing ingesta/chyme likely consistent with post prandial presentation with no signs of ileus, obstruction or foreign material.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Dr. Belan

HOSPITAL NAME

Healthy Paws
Forward

REFERRING VET

Dr. Hen-Boisen

INVOICE

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The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material.

Normal visible colon wall layers were present with apparent formed feces in lumen.

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Pancreas

The parenchyma of the left limb, body and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease was evident.

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Chihuahua

Free Abdomen

No omental masses, overt lymphadenopathy or peritoneal effusion was present.

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ULTRASONOGRAPHIC FINDINGS

- Multifocal cystic calculi with concurrent dependent to non-dependent sand/sediment, suspect mild cystitis
- Pinpoint non-obstructive medullary mineralization, no evidence of left/right pyelonephritis
- Sonographically normal liver with normal vascular volume

AGE

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Cystotomy with urinary bladder and ideally urethra retrograde flush with calculi analysis recommended. The calculi is suspected to be serving as a nidus for recurrent infection without evidence of significant cystitis or urinary bladder neoplastic criteria. Appropriate antibiotic protocol based on C/S result is recommended.

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For an additional charge, internal medicine consult can be utilized through SonoPath.com. You can select the internal medicine drop down at <http://spa.sonopath.com/>.

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One of the world's top internists & SonoPath associate Dr. Remo Lobetti BVSc, MMedVet, PhD, DECVIM can evaluate your case through SonoPath. <https://sonopath.com/resources/sonopath-services/internal-medicine-teleconsultation-services>

IMAGING PERFORMED BY

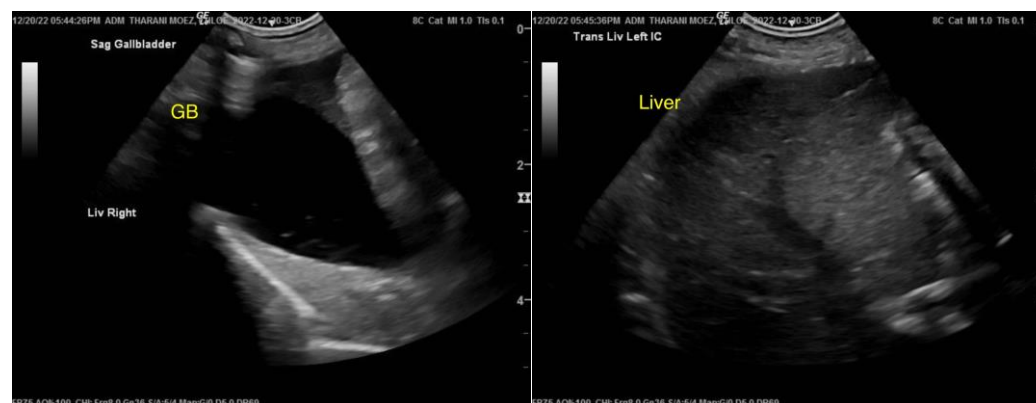
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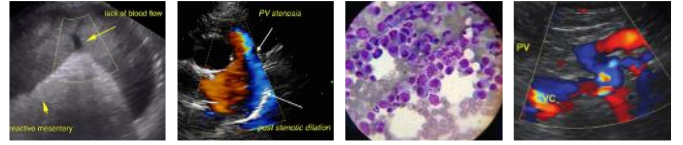
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I



PATIENT

can be of any further assistance, please contact me.

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