



**PATIENT PRESENTING CLINICAL SIGNS**

**Chloe Hainer** History: Ongoing persistent cough, tracheal collapse/tracheitis/bronchitis. New murmur noted today Grade 3/6. History of valvular disease noted on last year ultrasound. Has been on Hycodone SID, Powermeg joint supplement and Ursodial. Previous double cavity scan Aug 4, 2021

**SPECIES**

Canine

Abnormal PE/Chem/CBC/UA Results: Enlarged cardiac silhouette on rads. See attached.

**BREED**

Shih Tzu

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

**SEX**

FS

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.

**AGE**

12 yr

Normal size and margination was present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and mild loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Pinpoint to focal medullary mineral was noted bilaterally. The left kidney measured 3.7 cm in length. The right kidney measured 3.9 cm in length.

**WEIGHT**

7.9 kg

The area of the aortic trifurcation was free of pathology.

**Adrenal Glands**

**INTERPRETED BY**

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

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.61 cm width at the caudal pole and 1.4 cm length. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.43 cm width at the caudal pole and 1.6 cm length.

**IMAGING PERFORMED BY**

Crystal Hill

**Spleen**

The spleen exhibited primarily finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. A well-defined, symmetrical, echogenic nodule was present in the medial parenchyma adjacent to the hilus. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. Acute to chronic inflammatory or neoplastic changes were not noted. The echogenic nodules tend to trend benign and are most consistent with benign hyperplasia or myelolipomas.

**HOSPITAL NAME**

Oxford County Vet  
Clinic

**Liver**

**REFERRING VET**

Dr. Haflon

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. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

**INVOICE**

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**Gastrointestinal**

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained mild echogenic to shadowing ingesta with no signs of ileus, obstruction or foreign material.

**DATE**

07/08/2022



**PATIENT**

Chloe Hainer

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.

**SPECIES**

Canine

**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.

**BREED**

Shih Tzu

**Free Abdomen**

No overt lymphadenopathy or peritoneal effusion was present.

**SEX**

FS

**ULTRASONOGRAPHIC FINDINGS**

- Benign splenic nodules consistent with probably myelolipomas
- Sonographically unremarkable liver
- Shadowing gastric ingesta-suspect post prandial presentation
- Minor pancreatic remodeling-age related pancreatic changes likely and considered incidental
- Minor chronic renal changes with pinpoint to focal medullary mineral

**AGE**

12 yr

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**WEIGHT**

7.9 kg

A largely geriatric abdomen without evidence of significant visceral pathology. Correlation with most recent meal ingestion is recommended. If documented NPO, a minor potential for gastric foreign material cannot be definitively excluded yet is thought unlikely unless clinical history of dietary indiscretion.

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Continued hepatosupportive medications suggested if liver enzymes are elevated.

**IMAGING PERFORMED BY**

Crystal Hill

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**REFERRING VET**

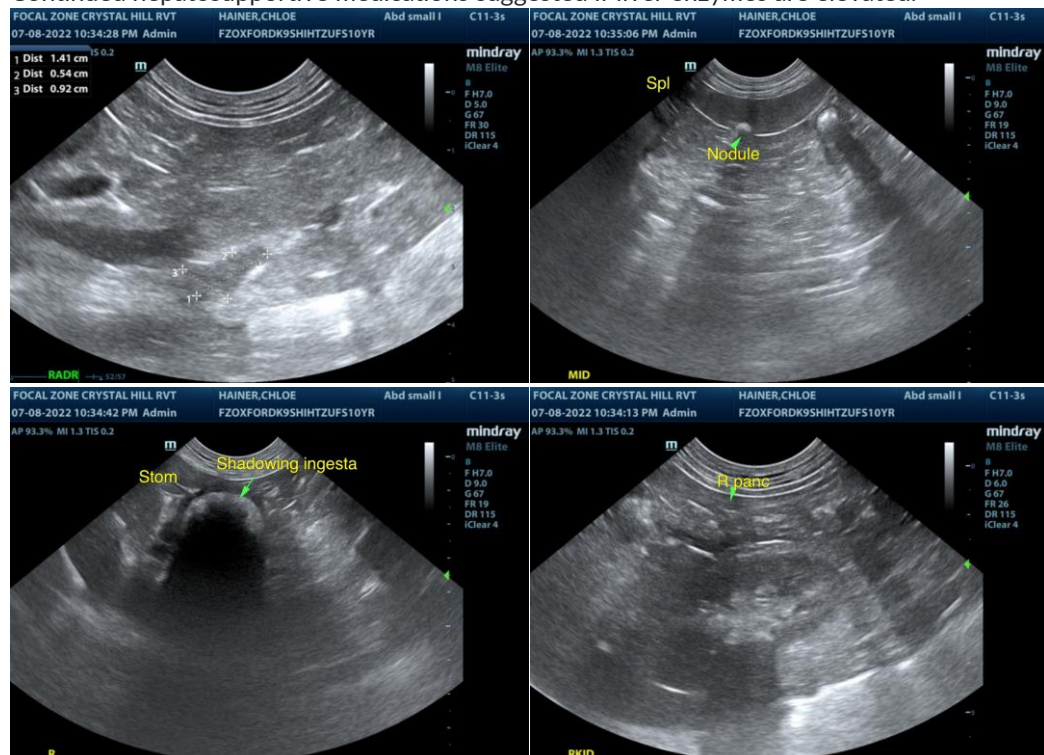
Dr. Haflon

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**PATIENT**

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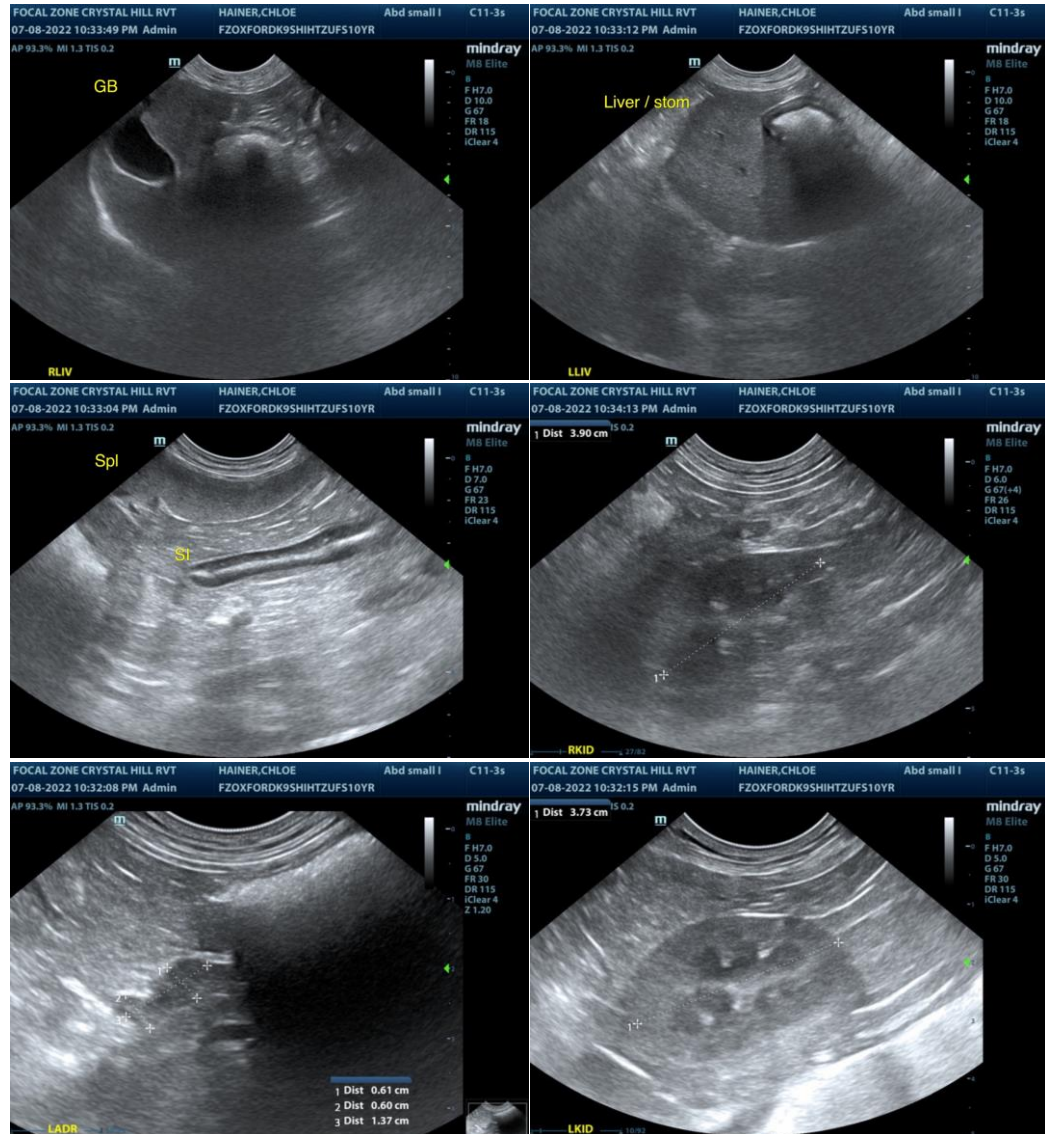
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)

info@SonoPath.com