



**PATIENT**

Mac Battersby

**SPECIES**

Canine

**BREED**

Chihuahua

**SEX**

FS

**AGE**

9 years

**WEIGHT**

4.4 kg

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Kelly Reschny

**HOSPITAL NAME**

Beattie Pet Hospital  
Ancaster

**REFERRING VET**

Dr. Davis

**INVOICE**

14024

**DATE**

6/7/22

**PRESENTING CLINICAL SIGNS**

grade 3/6 murmur meds: gabapentin, mirtazipine

Abnormal PE/Chem/CBC/UA Results: BW NSF, U/A: some RBC, epith HR 120 RR 20 rads:

radiographs - renal mineralization's, heart mildly round, liver ,mildly round, potential opacity at heart base of lung field

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 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 was noted.

The area of the aortic trifurcation was free of pathology.

Normal size and margination were 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. Mild nonobstructive medullary renolithiasis present in both kidneys. No evidence of pelvic dilation was present. The left kidney measured 3.4 cm in length. The right kidney measured 3.5 cm in length.

**Adrenal Glands**

The bilateral adrenal glands were normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 1.4 cm length x 0.49 cm width in the caudal pole. The right adrenal gland measured 1.6 cm length x 0.52 width in the caudal pole. No evidence of hyperplasia or tumors was present.

**Spleen**

The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. 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, neoplastic, or benign parenchyma changes were not noted.

**Liver/ Gallbladder**

The liver presented mildly enlarged in size. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. Intact yet mildly rounded hepatic contour was noted. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with sonographically unremarkable gallbladder walls without evidence of inflammatory criteria. Anechoic content was present in the gallbladder with mild congealed yet nonorganized, nonmineralized luminal debris. The common bile duct was normal.



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### Gastrointestinal

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The stomach presented intact wall layering with a normal wall layer ratio. Mild retained anechoic fluid and echogenic ingesta / chyme were present.

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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.

## BREED

Chihuahua

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

## SEX

FS

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 were evident.

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### Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

## WEIGHT

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## ULTRASONOGRAPHIC FINDINGS

- Mild chronic renal changes with nonobstructive medullary renolithiasis
- Subjective mild vacuolar hepatopathy pattern - benign
- Mild congealed gallbladder debris (non-mucocele)

## INTERPRETED BY

R. McKenzie Daniel,  
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(Canine and Feline)

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered.

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The overall liver exhibited subjective mild enlargement and rounded contour, yet was overall nonspecific without evidence of neoplastic criteria. Monitoring for evidence of hepatic enzyme elevation with hepatosupportive medications including Denamarin and Ursodiol is suggested if hepatic enzyme elevation or evidence of cholestasis is noted.

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Overall, no overt evidence of significant abdominal visceral pathology was noted.

## REFERRING VET

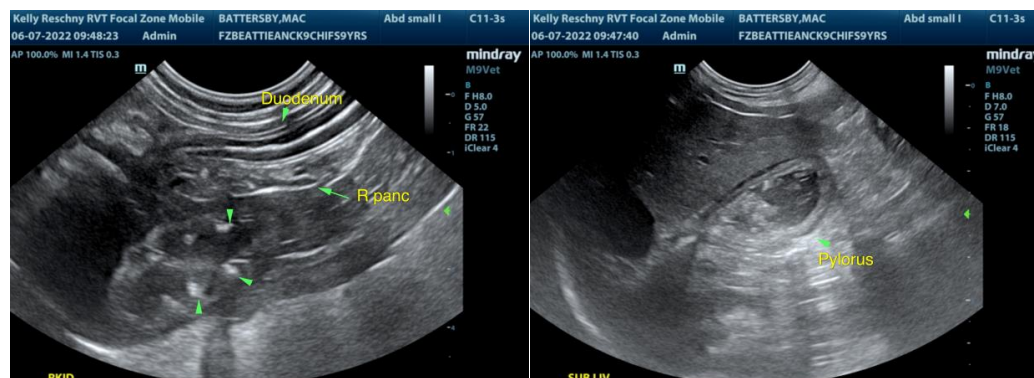
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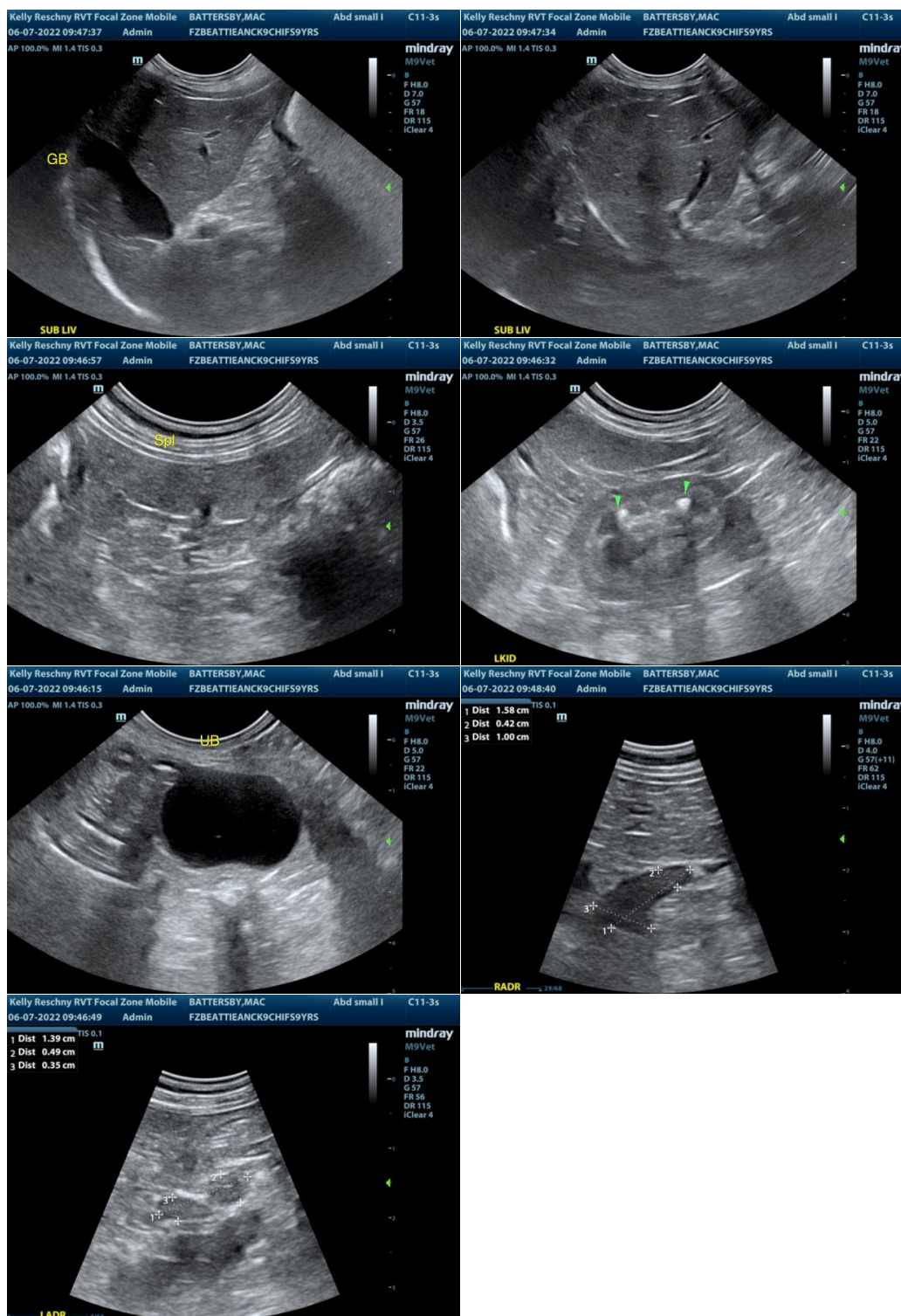
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.



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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.

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info@SonoPath.com

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