



PATIENT PRESENTING CLINICAL SIGNS

Chewy Oswald recheck echo (previously done July/20), not eating well, lethargic currently on zentonil and cerenia
Abnormal PE/Chem/CBC/UA Results: elevated urea, TP, ALB, Glob, low Hgb

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine **Urinary System**

BREED The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of – 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.

Shih Tzu X

SEX No overt pathology in the area of the residual prostate or aortic trifurcation.

Neutered Male 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 loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 4.0 cm. The right kidney measured 3.8 cm. Minor medullary mineral was present in both kidneys.

AGE 12 Years

WEIGHT The adrenal glands were uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 1.3 cm length x 0.38 cm at the caudal pole. The right adrenal gland measured 1.8 cm length x 0.33 cm at the caudal pole.

4.6 kg

Spleen

INTERPRETED BY

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

The spleen exhibited primarily finely textured parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Mild generalized parenchyma heterogeneity was present without evidence of nodular changes. The capsule was smooth and regular without apparent expansion. Intermittent, subtle, non-expansive, hypoechoic parenchymal nodules were present. Example of splenic nodule measured 0.39 cm in width. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. The parenchymal heterogeneity is likely consistent with benign changes such as extramedullary hematopoiesis or age related remodeling with minor potential for inflammatory or neoplastic disease.

IMAGING PERFORMED BY

Kelly Reschny

Liver

HOSPITAL NAME

Chippawa AH

The liver was mildly enlarged. 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. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder exhibited mild non-obstructive distention extending into mildly dilated biliary cystic duct. Mild congealed, echogenic, non-organized debris was noted in the cranial gallbladder lumen.

REFERRING VET

Dr. Dowell

Gastrointestinal

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The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained echogenic, nonshadowing ingesta most consistent with post prandial presentation without signs of ileus, obstruction or foreign material. Gastric body wall measured 0.25 cm.

DATE

8/11/21



PATIENT

Chewy Oswald

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. Duodenum wall measured 0.26 cm. Jejunum wall measured 0.26 cm.

SPECIES

Canine

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

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 X

Free Abdomen

No evidence of intraabdominal masses, lymphadenopathy or effusion.

SEX

Neutered Male

ULTRASONOGRAPHIC FINDINGS

AGE

12 Years

- Bilateral chronic renal changes with minor medullary mineral
- Generalized splenic parenchyma heterogeneity with intermittent, non-specific, small hypoechoic nodules – age related splenic parenchymal changes, subtle areas of hyperplasia, hematopoiesis, less likely incidental splenitis or emerging splenic neoplasia possible.
- Mild hepatopathy – subjectively benign
- Mild gallbladder debris (non-mucocele)
- Mild retained gastric ingesta

WEIGHT

4.6 kg

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DABVP (Canine and
Feline)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The presence of gastric ingesta is nonspecific and likely indicates post-prandial presentation. Correlation with most recent meal ingestion is recommended. If documented NPO prior to the ultrasound, the presence of gastric ingesta may indicate some degree of gastric hypomotility or metabolic stasis. The sonographic presentation of the ingesta was most consistent with food, without evidence of foreign material. Gastroprotectant protocol may be considered with assessment of clinical response.

IMAGING PERFORMED BY

Kelly Reschny

Splenic FNA (assuming normal clotting status and using 25-gauge needle) may be considered, primarily to ensure only benign changes are present and rule out unlikely potential for neoplasia. Pending echocardiogram assessment, hospitalization with 12-24 hour judicious IV fluid use (given the potential for dehydration exhibited by elevated BUN and protein levels) may prove beneficial.

HOSPITAL NAME

Chippawa AH

REFERRING VET

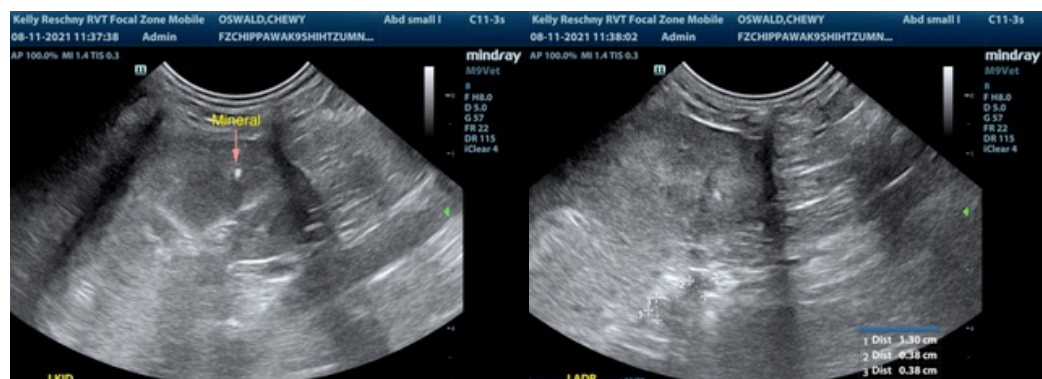
Dr. Dowell

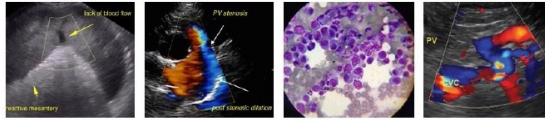
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PATIENT

Chewy Oswald

SPECIES

Canine

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SEX

Neutered Male

AGE

12 Years

WEIGHT

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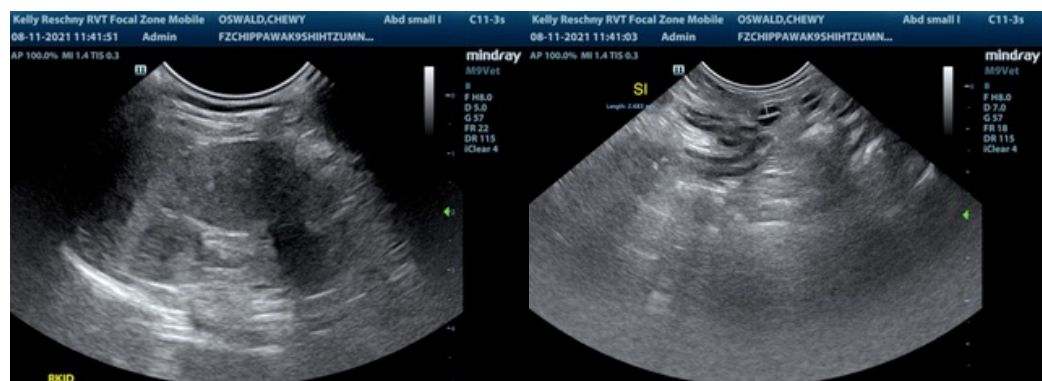
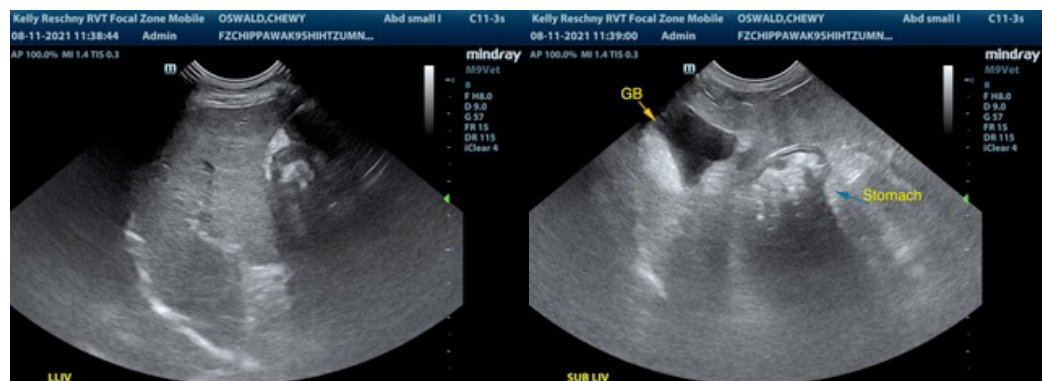
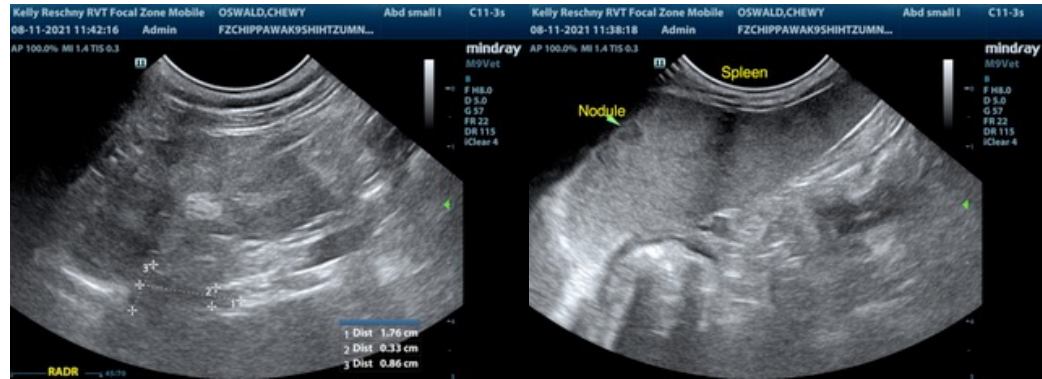
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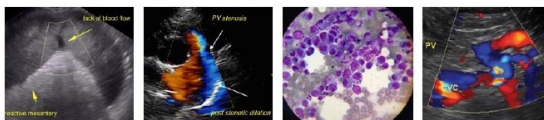
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PATIENT

Chewy Oswald

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

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.

BREED

Shih Tzu X

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SEX

Neutered Male

AGE

12 Years

WEIGHT

4.6 kg

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