



PATIENT

Chewie Clouse

SPECIES

Canine

BREED

Terrier Mix

SEX

Male, neutered

AGE

13 Yrs.

WEIGHT

17.8 lbs.

INTERPRETED BY

Andrea Nicastro, DVM,
Diplomate ACVIM
(*Small Animal Internal
Medicine*)

**IMAGING
PERFORMED BY**

Dr. Saum Hadi

HOSPITAL NAME

Bethan Family Pet
Clinic

REFERRING VET

Dr. Saum Hadi

INVOICE

12065

DATE

9/8/20

PRESENTING CLINICAL SIGNS

History: P has had a chronic increase in hepatic enzymes. No clinical signs.
Abnormal PE/Chem/CBC/UA Results: 7/21: ALT: 216, ALP: 146 8/29: SDMA: 18 (creatinine: 1.1),
ALT: 166, ALP: 252

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, and pelvic urethra are normal in thickness and the mucosal surface is smooth. The bladder lumen is moderately distended with anechoic urine. No masses, inflammatory changes or calculi are observed. Ureteral papillae and visualized portion of the proximal urethra, visible to a depth of 2 cm, are normal.

The prostate is normal in size (0.77 cm in width) with a normal shape and smooth peripheral contours. Overall, the parenchyma is of appropriate echogenicity and echotexture. A 0.29 cm hyperechoic area is observed at the right lateral aspect. The prostatic urethra is not overtly dilated.

The left kidney is normal size (4.29 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with normal corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydronephrosis. Renal vasculature is normal.

The right kidney is normal size (4.47 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with normal corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydronephrosis. Renal vasculature is normal.

Adrenal Glands

The left adrenal gland is borderline enlarged (0.54 cm at cranial pole) (0.66 cm at caudal pole); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

The right adrenal gland is borderline enlarged (0.88 cm at cranial pole) (0.68 cm at caudal pole); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

Spleen

The spleen is normal in size (1.15 cm in width at the level of the hilus) with a normal capsular contour. There is appropriate echogenicity and echotexture. No focal lesions are observed. Splenic vasculature is normal.

Liver

The liver is subjectively normal in size with normal curvilinear peripheral contours. The parenchyma is isoechoic relative to the spleen with several small ill-defined hypoechoic nodules throughout the organ. Vascular and biliary tracts are of normal volume with no evidence of congestion. The gallbladder is of normal contours and contains some dependent echogenic debris. The wall is normal in thickness. No choleliths are observed. The cystic and common bile ducts are normal.



PATIENT

Chewie Clouse

Gastrointestinal

SPECIES

Canine

The stomach and intestine are free of stasis and exhibit normal peristaltic activity. The gastric lumen is not distended. The gastric wall and pylorus are normal in thickness with a normal layering pattern. The pyloric outflow tract is patent. The small intestinal lumen is not dilated. The small intestinal wall thickness is normal with a normal layering pattern and appropriate mural detail. Discreet masses are not identified. The colonic wall is normal. No obstructive disease is noted.

BREED

Terrier Mix

Pancreas

The region of the pancreas is isoechoic relative to surrounding omental fat. No obvious parenchymal abnormalities are observed. There is no evidence of regional inflammation or effusion.

SEX

Male, neutered

Free Abdomen

The peritoneal cavity is normal. There is no evidence of inflammation or effusion. The abdominal lymph nodes are normal/not visible.

AGE

13 Yrs.

ULTRASONOGRAPHIC FINDINGS

Primary Findings:

WEIGHT

17.8 lbs.

- Non-specific diffuse hepatopathy. Differentials include inflammatory/immune mediated disease, hepatotoxicosis (i.e., copper), reactive hepatopathy, +/- concurrent age-related pathology. Neoplasia is possible but considered less likely.
- Gallbladder debris- incidental.
- Mild bilateral adrenomegaly.

INTERPRETED BY

Andrea Nicastro, DVM,
Diplomate ACVIM
(*Small Animal Internal
Medicine*)

Secondary Findings:

- The hyperechoic focus within the prostate may represent an area of remodeling/fibrosis or mineralization.

IMAGING PERFORMED BY

Dr. Saum Hadi

HOSPITAL NAME

Bethan Family Pet
Clinic

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

- Consider pre- and post-prandial serum bile acids to assess hepatic function.
- If an aggressive approach is desired, hepatic tissue sampling (i.e., fine needle aspirate or surgical liver biopsy) can be considered. If surgical biopsies are to be pursued, aerobic and anaerobic bile cultures and acquisition of additional hepatic tissue samples for copper quantitation should also be considered. If a more conservative approach is to be pursued, consider serial monitoring (i.e., every 3-4 months) of the patient's liver values. If values continue to increase, hepatic tissue sampling may be warranted.
- Three-view thoracic radiographs should be performed prior to any anesthetic event.
- Consider testing for hyperadrenocorticism with a low-dose dexamethasone suppression test or ACTH stimulation test if clinical signs (i.e., PU/PD) develop.

REFERRING VET

Dr. Saum Hadi

INVOICE

12065

DATE

9/8/20



PATIENT

Chewie Clouse

SPECIES

Canine

BREED

Terrier Mix

SEX

Male, neutered

AGE

13 Yrs.

WEIGHT

17.8 lbs.

INTERPRETED BY

Andrea Nicastro, DVM,
Diplomate ACVIM
(Small Animal Internal
Medicine)

**IMAGING
PERFORMED BY**

Dr. Saum Hadi

HOSPITAL NAME

Bethan Family Pet
Clinic

REFERRING VET

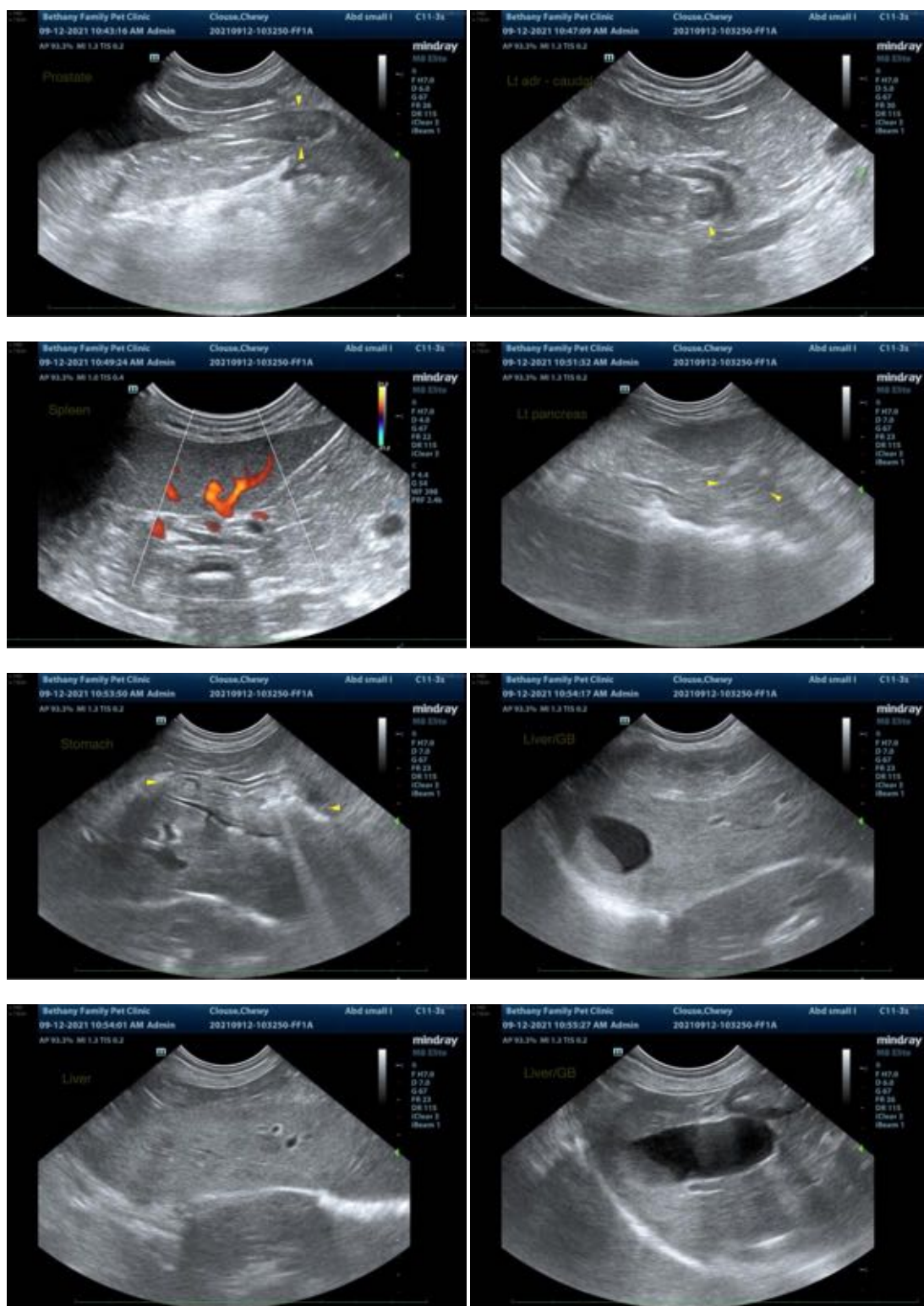
Dr. Saum Hadi

INVOICE

12065

DATE

9/8/20





PATIENT

Chewie Clouse

SPECIES

Canine

BREED

Terrier Mix

SEX

Male, neutered

AGE

13 Yrs.

WEIGHT

17.8 lbs.

INTERPRETED BY

Andrea Nicastro, DVM,
Diplomate ACVIM
(*Small Animal Internal
Medicine*)

**IMAGING
PERFORMED BY**

Dr. Saum Hadi

HOSPITAL NAME

Bethan Family Pet
Clinic

REFERRING VET

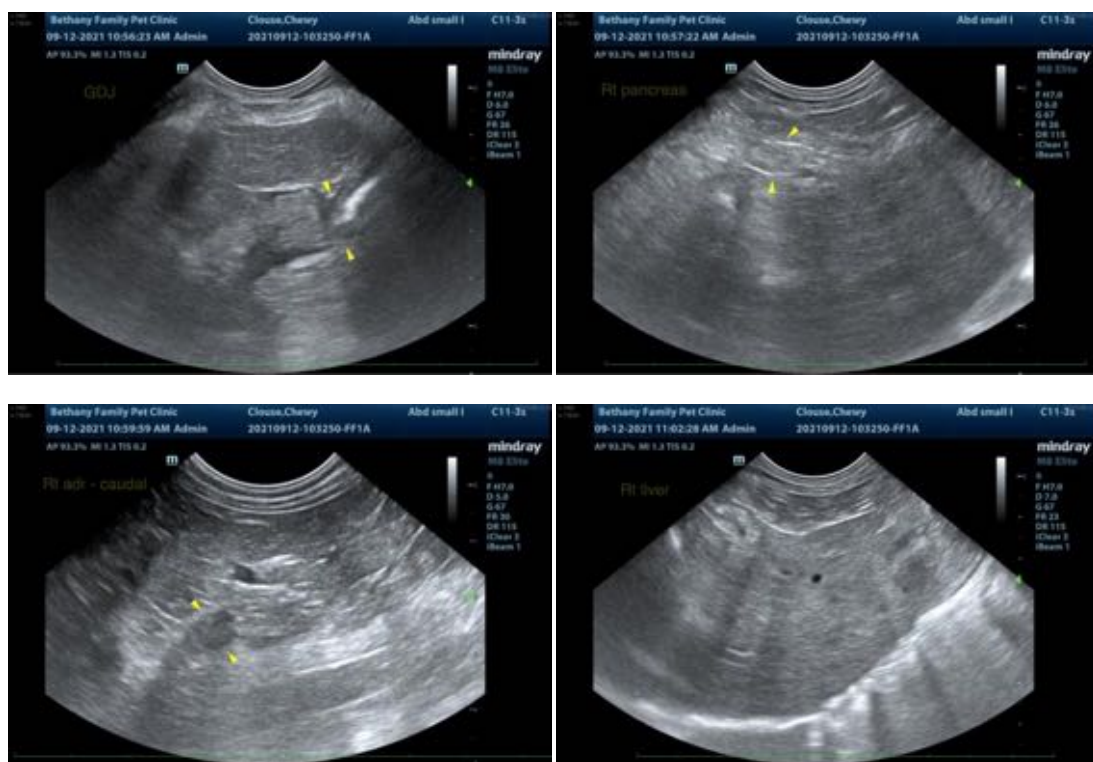
Dr. Saum Hadi

INVOICE

12065

DATE

9/8/20



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.

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.

Andrea Nicastro, DVM, Diplomate ACVIM (*Small Animal Internal Medicine*)

Andrea.nicastro@sonopath.com