



PATIENT

Maggie Walls

SPECIES

Canine

BREED

Mix

SEX

Spayed Female

AGE

13 Years

WEIGHT

28 Pounds

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Trae Cutchin

HOSPITAL NAME

Friendship Springs VC

REFERRING VET

Dr. Trae Cutchin

INVOICE

26789

DATE

11/2/21

PRESENTING CLINICAL SIGNS

This is a follow up ultrasound for one done previously on 07/20/2020. Initially patient was put on urosdiol and denamarin and liver chems improved markedly, almost to normal levels. However, 6 months ago they had begun to creep up and recently were back to previous elevations. Patient has remained on ursodiol and denamarin.

Abnormal PE/Chem/CBC/UA Results: ALT 458, AST 57 slight increase, ALP 4,385, GGT 229, spec cpl 229 slight increase .

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 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 were 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 loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 5.2 cm. The right kidney measured 5.5 cm. Non-obstructive areas of medullary mineral were present in both kidneys.

Adrenal Glands

The adrenal glands were uniform in size and contour with a uniformly hypoechoic parenchyma.

Spleen

The spleen exhibited primarily finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Multifocal, well-defined, symmetrical, echogenic nodules were present primarily within the medial parenchyma, potentially coalescing with potential for medial capsular fibrosis. The capsule was smooth and regular without apparent expansion. Pinpoint hyperechoic splenic parenchymal foci were also present, which may indicate pinpoint areas of microinfarction, fibrosis, or mineralization. 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.

Liver

The liver exhibited overall generalized enlargement, primarily owing to mildly expansive, non-homogeneously echogenic to possibly focally cystic mass, subjectively involving the mid to right liver, measuring approximately 8-9 cm in diameter, but potentially larger. The mass appeared to extend somewhat caudally into the area of the gastropyloric axis. The remainder of the hepatic parenchyma exhibited normal echogenicity with primarily uniform to mildly coarse echotexture. The gallbladder was non-distended in size with mild luminal debris. The common bile duct was unremarkable.

Gastrointestinal

The stomach exhibited mild yet variably prominent wall layering owing to variably prominent gastric mucosa and areas of prominent rugal folds. The stomach contained a mild amount of retained anechoic fluid.



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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.

SPECIES

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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.

BREED

Mix

ULTRASONOGRAPHIC FINDINGS

SEX

Spayed Female

- Liver mass
- Mild gallbladder debris (non-mucocele)
- Bilateral chronic renal changes with non-obstructive medullary mineral
- Gastritis pattern with gastric hypomotility
- Benign, possibly coalescing splenic nodules with potential for capsular fibrosis

AGE

13 Years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Compared to the previous study, a moderately sized mass involving the mid to right liver (which was not present in the previous ultrasound) was noted. Neoplastic criteria is of primary concern, such as adenocarcinoma, although potential for benign etiologies such as significant hyperplasia, granuloma, or similar may be possible, yet thought less likely. Assuming normal clotting status, ultrasound guided FNA of the hepatic mass could be considered for screening cytology. Subjectively, the location of the hepatic mass and potential extension into the porta hepatis likely precludes complete surgical resection. Further assessment via CT may be considered. 3-view chest radiographs are suggested. Continued as-needed gastrointestinal support (if evidence of gastrointestinal signs) +/- gastroprotectants protocol recommended.

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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.

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