



PATIENT PRESENTING CLINICAL SIGNS

Buggy Mehocic
SPECIES History: Ruling out hepatic disease. no clinical signs. on Galliprant and Dasuquin for DJD in stifles
 Abnormal PE/Chem/CBC/UA Results: Elevated ALP 324. Elevated tbili 0.9
 24 still images and 24 video clips are available for interpretation.

Canine ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED *Urinary System*

Pug
SEX Four still images are available for interpretation. In the visualized portion of the urinary bladder, the wall is subjectively normal in thickness. The mucosal surface in the region of the apex is slightly irregular. Luminal contents are mostly anechoic. No obvious cystic calculi are observed. The visualized portion of the proximal urethra is normal.

Neutered Male
 The prostate is normal in size (1.09 cm in width) and shape. Parenchyma is homogenous. The prostatic urethra appears normal without evidence of dilation or obstruction.

AGE

9 years 9 mos
 The left kidney is normal in size (4.15 cm in length) with a normal shape, architecture and smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with minimal- to mild loss of corticomedullary distinction. Several small, nonobstructive nephroliths are visualized. There is no evidence of pyelectasia, infarcts or hydroureter.

WEIGHT

8.3 kg
 The right kidney is normal in size (4.19 cm in length) with a normal shape, architecture and 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 hydroureter. Renal vasculature is normal.

INTERPRETED BY

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

Adrenal Glands

The left adrenal gland is normal in size (0.40 cm at cranial pole) (0.43 cm at caudal pole) with a normal shape and homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

IMAGING PERFORMED BY

Dr. Tiffany Moore

The right adrenal gland is normal in size (0.45 cm at cranial pole) (0.43 cm at caudal pole) with a normal shape and homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

HOSPITAL NAME

Lone Mountain AH

Spleen

In the visualized portion of the spleen, it appears subjectively normal-in-size (1.03 cm in width at the level of the hilus) with smooth peripheral contours. The parenchyma is homogenous and of appropriate echogenicity and echotexture. No focal lesions are observed. Splenic vasculature appears normal with no obvious evidence of thrombosis.

REFERRING VET

Dr. Tiffany Moore

Liver

In the visualized portion of the liver, it is subjectively normal in size with smooth peripheral contours. The parenchyma is isoechoic relative to the spleen and subtly heterogenous in appearance. Hepatic vasculature and intrahepatic biliary tracts are of normal volume with no evidence of congestion.

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The gallbladder lumen is moderately distended. The wall is thin and smooth. Some suspended echogenic debris is observed within the lumen. The cystic and common bile ducts are normal/not seen.

Gastrointestinal

In the visualized portion of the stomach, the wall is normal- to borderline thickened (up to 0.26 cm) with



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retention of the normal layering pattern. A small- to moderate amount of ingesta is observed within the lumen. The small intestinal lumen is segmentally dilated with chyme. The small intestinal wall is normal in thickness with a normal layering pattern and appropriate mural detail. Discreet masses are not identified. The colonic wall is normal. There is no evidence of an obstructive pattern.

SPECIES

Canine

Pancreas

In the visualized portions of the pancreas, no obvious pathology is observed.

BREED

Pug

Lymph Nodes

The abdominal lymph nodes are normal/not visible.

Free Abdomen

The peritoneal cavity is normal. There is no evidence of inflammation or effusion.

SEX

Neutered Male

ULTRASONOGRAPHIC FINDINGS

AGE

9 years 9 mos

Primary Findings

- The diffuse hepatic changes are non-specific and could be consistent with vacuolar hepatopathy, regenerative nodular hyperplasia, and/or age-related remodeling. Inflammatory disease, infiltrative neoplasia and other hepatopathies are considered less likely.

WEIGHT

8.3 kg

Secondary Findings

- Mild bilateral nonspecific age-related renal changes with nonobstructive nephrocalcinosis
- If the patient was fasted for this study, the presence of ingesta within the gastric lumen could suggest delayed gastric emptying.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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- Consider rechecking a total bilirubin, as elevations can often be artifactual due to hemolysis in the sample.
- Hepatic tissue sampling (i.e., aspirates or biopsies) can be considered (assuming normal clotting status). How the results may be of low yield. If a more conservative approach is desired, consider serial monitoring (i.e., every 3-4 months) of the patient's liver values. If liver values continue to increase, a repeat abdominal ultrasound +/- hepatic tissue sampling may be warranted.

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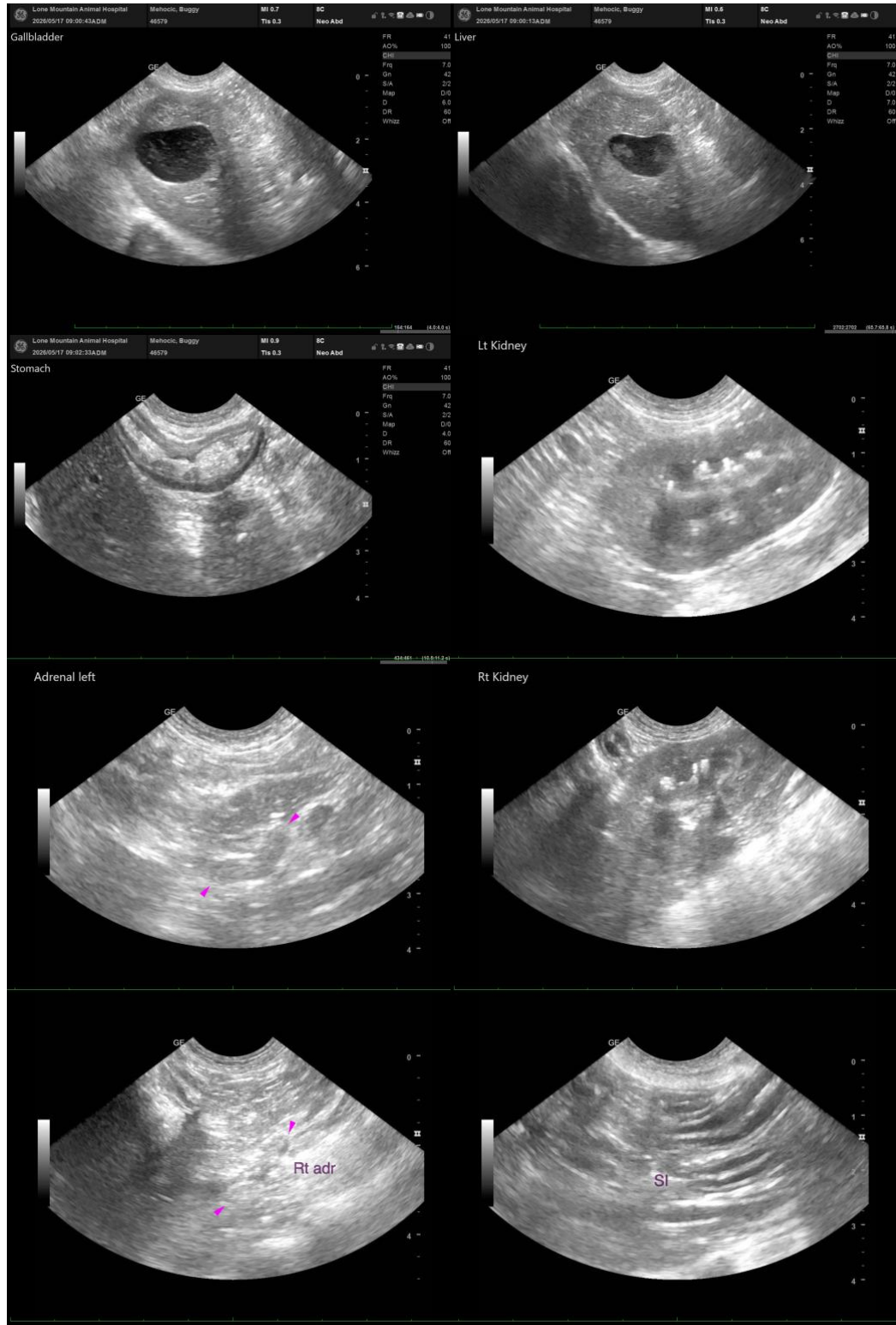
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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Pug

Andrea Nicastro, MPH, DVM, Diplomate DACVIM (Small Animal Internal Medicine)
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