



PATIENT

Theodore Ollman

PRESENTING CLINICAL SIGNS

History: gr 2/3 murmur heard, elevated liver values, requires anesthetic for dental procedure. This dog is also having an echocardiogram performed today.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results:

BREED

Dachshund

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder is moderately distended with anechoic urine. The wall is normal in thickness with a smooth mucosal surface. A small amount of gravity-dependent mineralized sand is observed within the lumen as well as a scant amount of suspended, echogenic debris. No discrete calculi are seen. The region of the trigone and the visible portion of the proximal urethra are normal.

SEX

Male Neutered

The prostate is normal to slightly prominent in size (1.35 cm in width) with a normal shape, glandular echogenicity, and detail. No focal lesions are observed. The prostatic urethra is not overtly dilated.

AGE

13 Years

The left kidney is normal size (5.16 cm in length) with a normal shape, smooth peripheral margins, and normal internal architecture. There is mild loss of corticomedullary distinction. Several hyperechoic shadowing diverticular foci are observed. A few small nephroliths are present. A few small cortical cysts are visualized. There is no evidence of pyelectasia, infarcts or hydroureter. Renal vasculature is normal.

WEIGHT

8.3 kgs.

The right kidney is normal size (5.27 cm in length) with a normal shape, smooth peripheral margins, and normal internal architecture. There is mild loss of corticomedullary distinction. Several hyperechoic shadowing diverticular foci are observed. A few small nephroliths are present. A few small cortical cysts are visualized. There is no evidence of pyelectasia, 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 size (0.69 cm at cranial pole) (0.54 cm at caudal pole) (2.47 cm in length); 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.

IMAGING PERFORMED BY

Kelly Reshny, RVT

The right adrenal gland is normal size (1.18 cm at cranial pole) (0.62 cm at caudal pole) (2.26 cm in length); 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.

HOSPITAL NAME

Beattie Pet Hospital
Stoney Creek

Spleen

The spleen is normal in size (0.99 cm in width at the level of the hilus) with a normal capsular contour. There is appropriate echogenicity and echotexture. A few small, ill-defined, myelolipomas are observed in the region of the hilus. Splenic vasculature is normal.

REFERRING VET

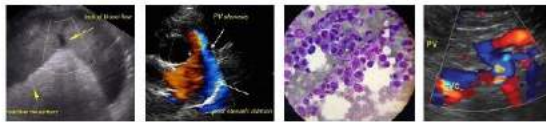
Dr. Baskin

Liver

The liver is subjectively prominent in size with swollen curvilinear peripheral contours. The parenchyma is isoechoic relative to the spleen and exhibits mild heterogeneity. No distinct focal lesions are observed. Hepatic vasculature and biliary tracts are of normal volume with no evidence of congestion. The gall bladder lumen is moderately distended. The wall is thin and smooth. A moderate

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amount of aggregated, echogenic to mineralized, mostly gravity-dependent debris is observed within the lumen as well as a scant amount of suspended debris. The cystic and common bile ducts are normal/not seen.

SPECIES

Canine

Gastrointestinal

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

Dachshund

Pancreas

SEX

Male Neutered

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.

AGE

13 Years

Free Abdomen

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

WEIGHT

8.3 kgs.

Primary Findings:

- Non-specific diffuse hepatopathy. Age-related pathology (i.e., vacuolar hepatopathy, regenerative nodular hyperplasia) is favored. However, if the ALT is substantially elevated, an inflammatory process or hepatotoxicosis (i.e., copper) should be considerations.
- Gall bladder debris, non-mucocele.

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Secondary Findings:

- Bilateral, age-related renal changes with dystrophic mineralization and non-obstructive nephroliths.
- Urinary bladder sand.
- Questionably prominent prostate.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

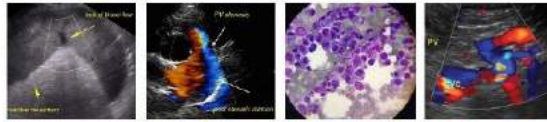
1. Further hepatic testing (i.e., pre- and post-prandial serum bile acids, tissue sampling) should be based on the liver enzyme pattern. If it is the ALP that is predominantly elevated, serial monitoring (i.e., q 3-4 months) of the is recommended with possible repeat ultrasound +/- hepatic tissue sampling if levels increase.

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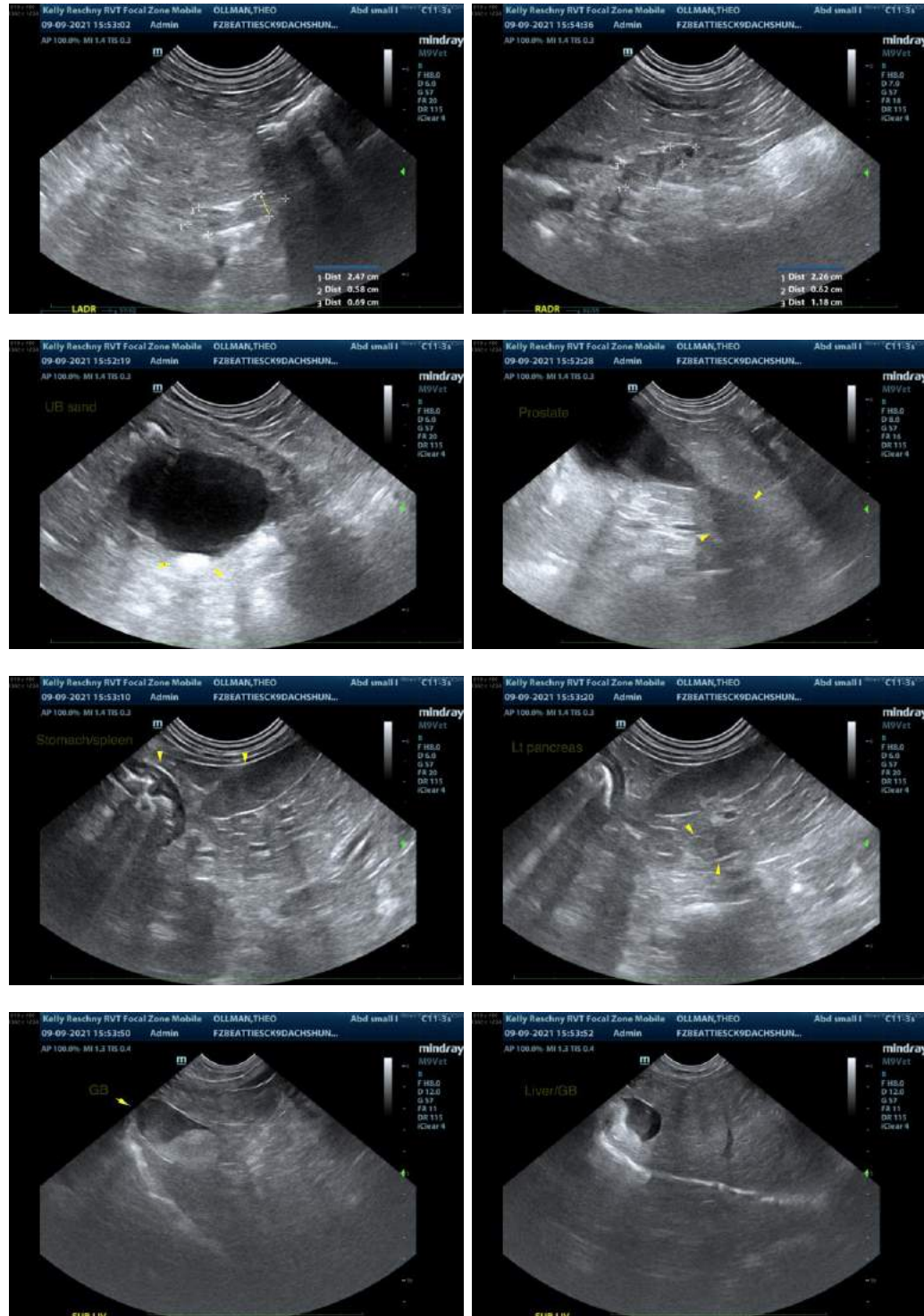
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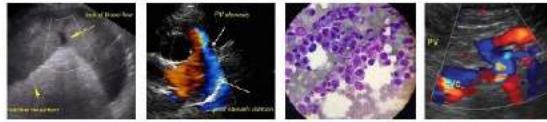
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Andrea Nicastro, DVM, Diplomate ACVIM (*Small Animal Internal Medicine*)
Andrea.nicastro@sonopath.com