



PATIENT

Roscoe Hurd

PRESENTING CLINICAL SIGNS

History: He has a mild elevation in his ALP liver enzyme. The ALP enzyme has been elevated for years, 382. He does drink a lot and has lost a little bit of weight (1 lb) over the past year.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder wall is normal in thickness and the mucosal surface is smooth. The bladder lumen is moderately distended. A scant amount of suspended echogenic debris is observed within the lumen. No masses, inflammatory changes or calculi are observed. Ureteral papillae and visualized portion of the proximal urethra, visible to a depth of 1-2 cm, are normal.

BREED

Whippet mix

The prostate is normal in size (0.88 cm in width) and shape. Parenchyma is homogenous. The prostatic urethra appears normal without evidence of dilation or obstruction.

SEX

Male, neutered

The left kidney is normal size (5.40 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with mild loss of corticomedullary distinction. Several cortical cysts are visualized, the largest measuring 2.37 cm in diameter (cranial pole). Pinpoint hyperechoic to mineralized foci are also observed within the cortex. Hyperechoic shadowing diverticular foci are visualized. Mild pyelectasia is present (0.26 cm in the longitudinal plane). There is no evidence of infarcts or hydronephrosis.

AGE

12 Yrs.

WEIGHT

33 lbs.

The right kidney is normal size (6.58 cm in length) with a slightly irregular shape. There is a normal 1:3 cortex to medulla ratio with mild loss of corticomedullary distinction. A few cortical cysts are visualized, the largest measuring 2.42 cm in diameter (medial aspect). Hyperechoic to mineralized foci are observed within the cortex. There is no evidence of pyelectasia, infarcts or hydronephrosis. Renal vasculature is normal.

INTERPRETED BY

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

Adrenal Glands

The left adrenal gland is normal size (0.35 cm at cranial pole) (0.50 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.

IMAGING PERFORMED BY

Dr. Sheldon

The right adrenal gland is normal size (0.88 cm at cranial pole) (0.50 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.

HOSPITAL NAME

Advanced PetCare of
Oakland

Spleen

The spleen is subjectively normal in size with a normal capsular contour. There is appropriate echogenicity and echotexture. No focal lesions are observed. Splenic vasculature is normal.

REFERRING VET

Dr. Sheldon

Liver

The liver is subjectively prominent in size. The parenchyma is similar in echogenicity relative to the spleen. A 1.66 cm anechoic cyst is observed on the left side. The lesion causes slight capsular expansion. The remaining parenchyma is homogeneous. 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.

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Gastrointestinal

Roscoe Hurd

The gastric lumen is not distended. The gastric wall is normal in thickness with a normal layering pattern. 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. There is no evidence of an obstructive pattern.

SPECIES

Canine

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.

BREED

Whippet mix

Free Abdomen

SEX

Male, neutered

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

AGE

12 Yrs.

ULTRASONOGRAPHIC FINDINGS

WEIGHT

33 lbs.

Primary Findings:

- Non-specific diffuse hepatopathy. Vacuolar hepatopathy (i.e., endocrine, idiopathic) is the top differential. Inflammatory disease is considered less likely given the normal ALT. Infiltrative neoplasia is possible but considered unlikely given the chronicity of the ALP elevation and the sonographic appearance of the liver.

Secondary Findings:

- Bilateral, chronic nephropathy with cortical cysts, dystrophic mineralization and left pyelectasia.

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(*Small Animal Internal
Medicine*)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

**IMAGING
PERFORMED BY**

Dr. Sheldon

- Serial monitoring (i.e., every 3-4 months) of the patient's liver values is recommended. If liver values continue to increase, a repeat abdominal ultrasound +/- hepatic tissue sampling may be warranted.
- Given the history of polydipsia, a urinalysis is recommended to assess for isosthenuria. If present, consider a urine culture and sensitivity +/- further testing for Cushing's disease.
- Given the history of weight loss, consider the following:
 1. Thoracic radiographs to assess for occult neoplasia in the chest.
 2. A fecal evaluation for ova/Giardia.
 3. GI panel including serum cobalamin, folate, TLI and PLI (to assess for maldigestion/malabsorption).

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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.

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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