



**PATIENT**

Wampum Letki

**PRESENTING CLINICAL SIGNS**

History: elevated ALKP, asymptomatic  
Abnormal PE/Chem/CBC/UA Results: ALKP 564, LDDS wnl

**SPECIES**

Canine

**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 mostly 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.

**BREED**

Labrador retriever mix

**SEX**

Female, spayed

The left kidney is normal size (8.05 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.

**AGE**

10 Yrs.

The right kidney is normal size (6.70 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.

**WEIGHT**

58.4 lbs.

*Adrenal Glands*

The left adrenal gland is normal size (0.69 cm at cranial pole) (0.69 cm at caudal pole) (2.46 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.

**INTERPRETED BY**

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

The right adrenal gland is normal size (0.64 cm at cranial pole) (1.48 cm at caudal pole) (3.04 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**

Diane McFadden,  
RVT

*Spleen*

The spleen is normal in size (1.71 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.

**HOSPITAL NAME**

Newton VH

*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. Luminal contents are anechoic. The cystic and common bile ducts are normal/not seen.

**REFERRING VET**

Dr. Wyman-Greenwald

*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

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not identified. A segment of the proximal colon is mildly thickened (up to 0.59 cm) with retention of the normal layering pattern. The remaining colonic wall is normal. The lumen of the descending colon contains shadowing fecal material. There is no evidence of obstruction.

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## Pancreas

The right limb of the pancreas is visible with normal curvilinear peripheral contours. The parenchyma is largely hypoechoic relative to surrounding omental fat and slightly mottled in appearance. The pancreatic duct is visible but not overtly dilated. There is no evidence of peripancreatic inflammation or effusion.

## BREED

Labrador retriever mix

## Free Abdomen

There is no evidence of free fluid. The abdominal lymph nodes are normal/not visible.

## SEX

Female, spayed

## ULTRASONOGRAPHIC FINDINGS

### 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 and infiltrative disease are considered less likely.

## AGE

10 Yrs.

### Secondary Findings:

- The pancreatic changes are most consistent with age-related parenchymal remodeling, potentially secondary to a prior inflammatory episode, early fibrosis or chronic pancreatitis.
- The colonic wall changes are most consistent with an inflammatory process with a lower possibility of emerging neoplasia.

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## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Serial monitoring (i.e., every 3-4 months) of the patient's liver values is recommended. If liver values continue to increase, repeat abdominal ultrasound +/- hepatic tissue sampling may be warranted.

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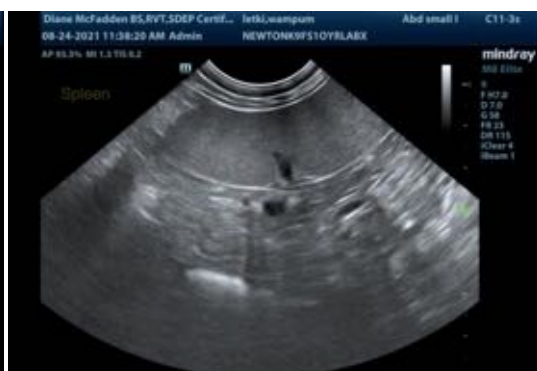
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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*)

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