



PATIENT PRESENTING CLINICAL SIGNS

Bucky Young 2 week history of vomiting, inappropriate urination/defecation in home, uncomfortable in abdomen. Ate a squirrel carcass December 31, has been eating scraps. Owners fed a bland diet. History of severely elevated liver enzymes. Being treated for hepatitis with Amoxicillin and Metronidazole.

SPECIES Cannot rule out Leptospirosis. Imaging to check for hepatitis, cholangiohepatitis, neoplasia, other. Patient was also started on Doxycycline and Denamarin.

Canine Abnormal PE/Chem/CBC/UA Results: ALT=1022 (18-121) AlkPhos=819 (5-160) GGT=31 (0-13) Cholesterol=417 (131-345) CPL=WNL

BREED ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Retriever X *Urinary System*

Urinary bladder is moderately distended with anechoic contents. No masses, inflammatory changes, echogenic sediment or cystoliths are observed. The urinary bladder, trigone and visible pelvic urethra are normal in thickness with a smooth mucosal surface.

SEX

Neutered Male The region of the prostate was evaluated without evident pathology.

AGE

13 Years Right kidney is normal in size (5.94 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.

13 Years Left kidney is normal in size (6.12 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.

WEIGHT

41.6 Pounds *Adrenal Glands*
Right adrenal gland is normal in size (2.5 cm long x 0.84 cm at cranial pole and 0.74 cm at caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

INTERPRETED BY

Beth Johnson, DVM DACVIM Left adrenal gland is normal in size (2.66 cm long x 1.29 cm at cranial pole and 0.75 cm at caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

HOSPITAL NAME

Spleen

Wauwatosa VC Spleen is subjectively normal in size with a normal smooth capsular contour. Parenchyma is appropriately finely textured and homogenous with normal echogenicity relative to surrounding tissue (hyperechoic to liver). A 2.0 cm round, hypoechoic, non-capsule disrupting nodule in the mid body. Splenic vasculature appears normal.

REFERRING VET

Liver

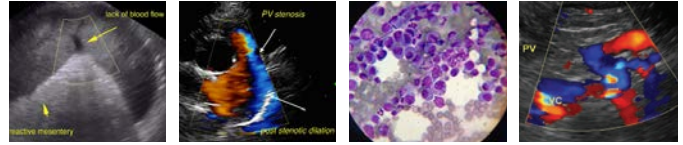
Dr. Elaine Binor Liver is subjectively enlarged. Margins are smooth but round. It has a normal homogenous echotexture. Parenchyma is diffusely hyperechoic characterized by less prominent than normal portal vein walls and increased echogenicity relative to the spleen. No focal lesions are observed. Visible vasculature and biliary tree appear normal without distension or congestion.

INVOICE NUMBER

34160 GB is moderately distended with anechoic bile and gravity dependent echogenic sediment. The wall is smooth without visible thickening. There is no evidence of cystic or CBD dilation. There is no evidence of effusion or inflammation.

DATE

1/12/22



PATIENT ***Gastrointestinal***

Bucky Young

The stomach wall is normal in thickness (canine < 0.5 cm and feline < 0.4 cm) and layering. mildly distended with very echogenic reverberation artifact from intraluminal gas. There is no evidence of obstruction, foreign material or infiltrative disease; however, complete visualization of far wall is partially inhibited by gas. Pyloric outflow tract appears patent.

SPECIES

Canine

The visible small intestines are normal in wall thickness and layering (canine duodenum < 0.5 cm and feline duodenum < 0.4 cm; other < 0.3 cm). Small intestinal motility appears adequate (1-3 contractions per min). The lumen of the small intestine is empty with no evidence of obstruction, foreign material or infiltrative disease.

BREED

Retriever X

The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.

Pancreas

SEX

Neutered Male

Pancreatic parenchyma is appropriately isoechoic to surrounding tissue. Visible capsule is smooth and normal in contour. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.

Free Abdomen

AGE

13 Years

There is no evidence of peritoneal effusion. There is no apparent lymphadenopathy.

ULTRASONOGRAPHIC FINDINGS

WEIGHT

41.6 Pounds

- Hyperechoic hepatomegaly – most consistent with benign steroid (endocrine) hepatopathy or reactive or idiopathic hepatopathy. Infiltrative neoplasia such as round cell neoplasia is also possible, but considered less likely.
- Hypoechoic splenic nodule – differentials include both benign lesions such as nodular hyperplasia or extramedullary hematopoiesis as well as infiltrative neoplasia, which can mimic benign lesions, and therefore cannot be ruled out.
- Gallbladder debris - Cholecystic debris is of unknown clinical significance. It can be seen with biliary stasis from fasting or illness. Cholecystic debris is not necessarily related to hepatobiliary disease. Echogenic bile is most commonly an incidental finding in dogs and should be interpreted in combination with clinical signs such as nausea, inappetence, cranial abdominal discomfort and/or laboratory changes such as increased ALP and/or increased Tbili.

INTERPRETED BY

Beth Johnson, DVM
DACVIM

HOSPITAL NAME

Wauwatosa VC

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

REFERRING VET

Dr. Elaine Binor

Recommendations for this patient include testing for Leptospirosis with serology, since the patient is currently on antibiotics, followed by a fine needle aspirate of both the liver and spleen if patient's coagulation status is appropriate. Continued supportive medical management with current antibiotics, Denamarin, as well as added antiemetics, pain management +/- appetite stimulant if necessary are also recommended. Ultimately, if a diagnosis is not obtained this way, and/or therapy does not result in improvement in liver enzymes, a liver biopsy may be warranted.

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SPECIES

Canine

BREED

Retriever X

SEX

Neutered Male

AGE

13 Years

WEIGHT

41.6 Pounds

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HOSPITAL NAME

Wauwatosa VC

REFERRING VET

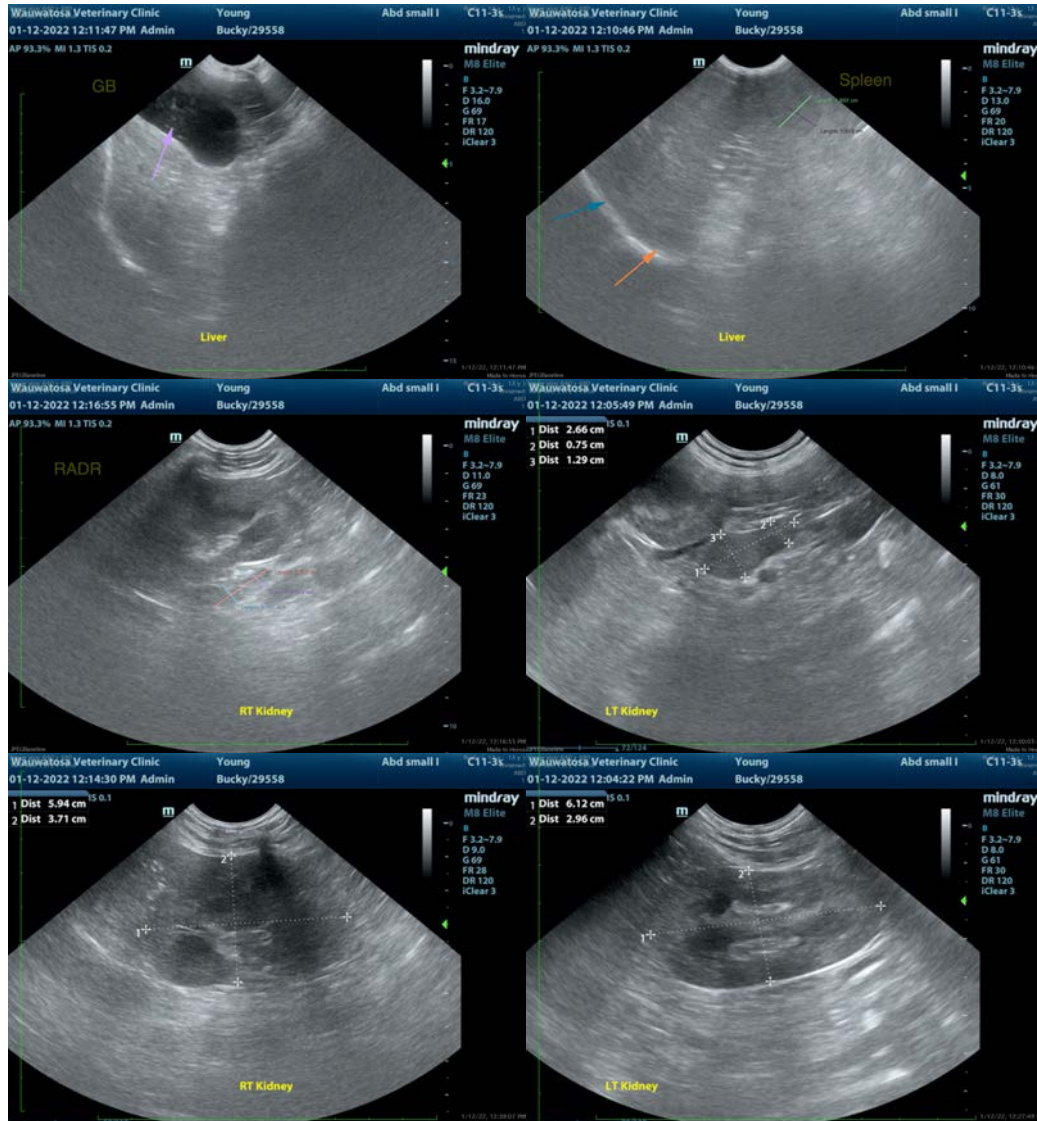
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Beth Johnson, DVM, DACVIM
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