



PATIENT

Dottie Stringer

PRESENTING CLINICAL SIGNS

No signs of illness presented for routine dental 2 mos. ago, had high ALT and ALP on labs, both increased slightly after a month of sam-e, ursodiol and metronidazole

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: ALT 256, ALP 1554. Rest of chem normal, enlarged liver on palpation. USG 1.030

BREED

Jack Russell

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The 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

Spayed Female

The right kidney is normal in size (4.7 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.

AGE

7 Years

The left kidney is normal in size (4.6 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

13 Pounds

Adrenal Glands

The right adrenal gland is normal in size (0.97 cm at the cranial pole and 0.68 cm at the caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

INTERPRETED BY

Beth Johnson, DVM
DACVIM

The left adrenal gland is normal in size (0.52 cm at the cranial pole and 0.68 cm at the caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

IMAGING PERFORMED BY

Dr. Reser

Spleen

The 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). No focal nodules or masses are observed. Splenic vasculature appears normal.

HOSPITAL NAME

Harvest Hills VH

Liver

Liver is subjectively enlarged with mildly irregular margins. Parenchyma is diffusely heterogeneous characterized by multiple poorly defined hypoechoic nodules within otherwise hyperechoic liver parenchyma. In the caudal mid liver, the liver is more focally heterogeneous in appearance with an undulating/scalloped contour. Parenchyma in this area is coarse and mildly heterogeneous, characterized by mild cavitation and is iso- to slightly hypoechoic in appearance. Visible vasculature and biliary tree appear normal without distension or congestion.

REFERRING VET

Dr. Reser

INVOICE

42142

Gallbladder is moderately distended with anechoic bile as well as suspended and gravity dependent echogenic debris. 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

10/18/22



PATIENT

Dottie Stringer

Gastrointestinal

The stomach wall is normal in thickness (canine < 0.5 cm and feline < 0.4 cm) and layering. The lumen of the stomach is empty with no evidence of obstruction, foreign material or infiltrative disease. 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

Jack Russell

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

SEX

Spayed Female

Pancreas

The 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.

AGE

7 Years

Free Abdomen

There is no evidence of free peritoneal effusion noted in these images.

WEIGHT

13 Pounds

There is no apparent lymphadenopathy noted in these images.

ULTRASONOGRAPHIC FINDINGS

- **Scalloped, heterogeneous, mid caudal liver with an emerging mass like appearance** – rule outs include chronic inflammatory hepatopathy, marked nodular hyperplasia, or even infiltrative neoplasia such as round cell neoplasia versus primary hepatocellular adenoma or carcinoma.
- **Diffusely heterogenous Liver** – These changes are most consistent with benign processes such as nodular hyperplasia, steroid (vacuolar) hepatopathy, extramedullary hematopoiesis or possibly chronic inflammatory disease and less commonly infiltrative round cell or metastatic neoplasia.
- **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

IMAGING PERFORMED BY

Dr. Reser

HOSPITAL NAME

Harvest Hills VH

REFERRING VET

Dr. Reser

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

A fine needle aspirate of the mid caudal liver is recommended if patient's coagulation status is appropriate. Pending cytology results, testing for Leptospirosis could be considered.

INVOICE

Three view thoracic radiographs are recommended for further assessment of cardio-pulmonary status as well as to further evaluate for any evidence of metastatic disease, if not recently evaluated.

42142

If infiltrative neoplasia not diagnosed cytologically, bile acids are recommended, followed potentially by a liver biopsy to definitively diagnose and therefore guide medical management of the suspected hepatopathy.

DATE

10/18/22



PATIENT

Dottie Stringer

SPECIES

Canine

BREED

Jack Russell

SEX

Spayed Female

AGE

7 Years

WEIGHT

13 Pounds

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Dr. Reser

HOSPITAL NAME

Harvest Hills VH

REFERRING VET

Dr. Reser

INVOICE

42142

DATE

10/18/22





PATIENT

Dottie Stringer

SPECIES

Canine

BREED

Jack Russell

SEX

Spayed Female

AGE

7 Years

WEIGHT

13 Pounds

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Dr. Reser

HOSPITAL NAME

Harvest Hills VH

REFERRING VET

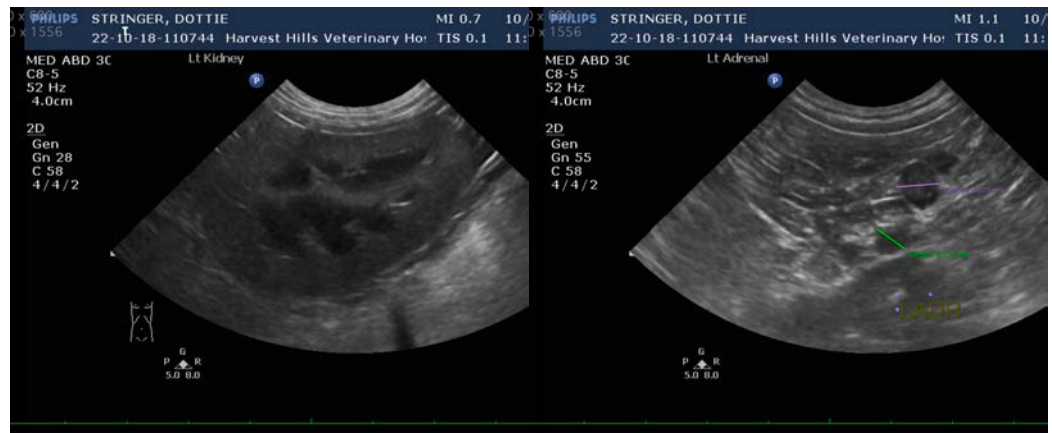
Dr. Reser

INVOICE

42142

DATE

10/18/22



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.

Beth Johnson, DVM, DACVIM
Beth.Johnson@sonopath.com