



PATIENT PRESENTING CLINICAL SIGNS

Bella Discount Significantly raised pre + post bile acids - 80/126. Hx of failure to thrive, poor hair coat
Abnormal PE/Chem/CBC/UA Results: ALT 153, AST 90

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine 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.

BREED

Shih Tzu Right kidney is normal in size (3.74 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.

SEX

Spayed Female Left kidney is normal in size (3.71 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

3 Years Right adrenal gland is normal in size (0.86 cm long x 0.95 cm at cranial pole and 0.36 cm at caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

WEIGHT

4 Pounds Left adrenal gland is normal in size (1.07 cm long x 0.24 cm at the cranial pole and 0.32 cm at the caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

Spleen

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.

INTERPRETED BY

Beth Johnson, DVM
DACVIM

Liver

Liver is subjectively small in size. Margins are sharp and smooth. It has a normal homogeneous echotexture and normal echogenicity. No nodules or masses are evident. The portal vein is small, relative to the vena cava and aorta.

HOSPITAL NAME

ACC Flanders

Gallbladder is non-distended in size. The wall is smooth without visible thickening. Luminal contents are primarily anechoic. There is no evidence of cystic or common bile duct dilation.

REFERRING VET

Dr. Hallihan

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.

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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

DATE

1/4/22



PATIENT (contractions per min). The lumen of the small intestine is empty with no evidence of obstruction, foreign material or infiltrative disease.

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

SPECIES

Pancreas

Canine 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.

BREED

Free Abdomen

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

ULTRASONOGRAPHIC FINDINGS

SEX

- Microhepatica and a small portal vein as well as a shunting vessel – concerning for a splenoazygos shunt.

Spayed Female

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

AGE

3 Years

Given this patient's breed, history, bile acids, and ultrasound findings, the top differential is a splenoazygos shunt. Recommendations include confirming the presence of the shunt with an abdominal CT scan, followed by consultation with a surgeon for surgical correction. In the meantime, medical management with a liver diet, lactulose, and antibiotics to prevent hepatic encephalopathy is recommended.

WEIGHT

4 Pounds

INTERPRETED BY

Beth Johnson, DVM
DACVIM

HOSPITAL NAME

ACC Flanders

REFERRING VET

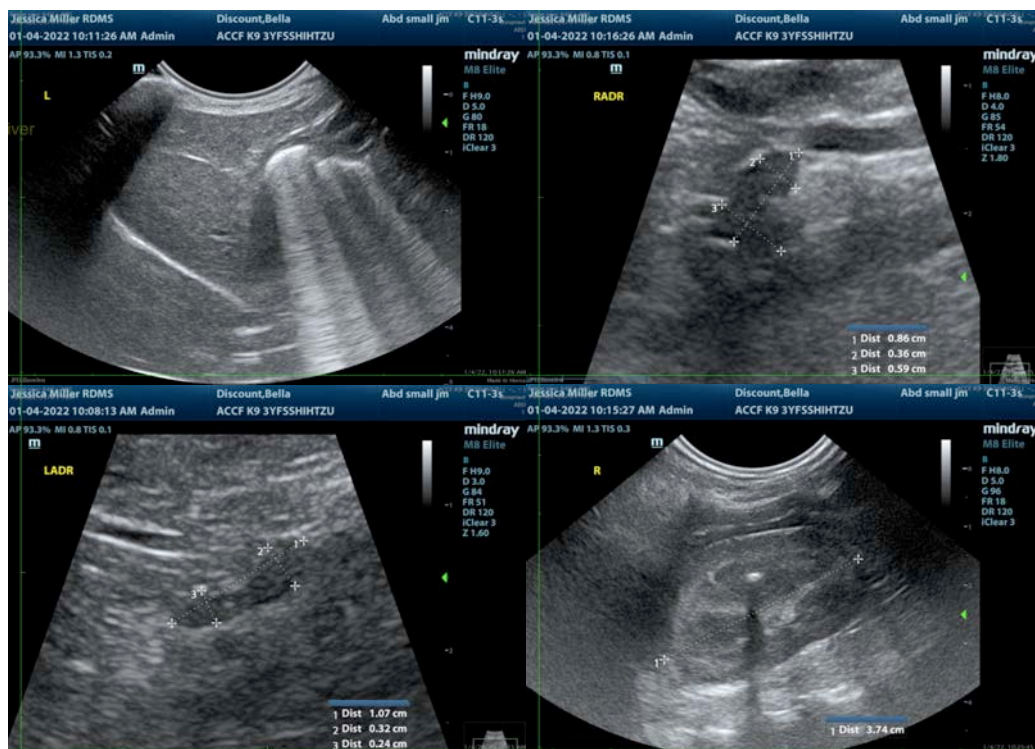
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PATIENT

Bella Discount

SPECIES

Canine

BREED

Shih Tzu

SEX

Spayed Female

AGE

3 Years

WEIGHT

4 Pounds



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.

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