



PATIENT

Bronx Huff

PRESENTING CLINICAL SIGNS

History: hx of mitral valve disease; had marijuana toxicity, went home after IV fluids ad returned; now vomiting and lethargy

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

Shih Tzu

The **urinary bladder** revealed small calculi, the largest grouping of which measured 5.0 mm, non-obstructive at the time of the sonogram. The prostate measured 7.0 mm.

SEX

Intact Male

The **kidneys** were swollen and hypervascular. The right kidney measured 4.96 cm. The left kidney measured

Adrenal Glands

AGE

9 Months

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The left adrenal gland measured 1.74 cm x 0.46 cm at the caudal pole and 0.46 cm at the cranial pole. The right adrenal gland measured 1.73 cm x 0.38 cm at the caudal pole and 0.36 cm at the cranial pole.

WEIGHT

10 Pounds

Spleen

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes were noted.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Liver

IMAGING PERFORMED BY

Diane Mcfadden

The **liver** was subnormal in size with moderate to severe microhepatica. The gallbladder and common bile duct were unremarkable. The portal vein was subnormal in size. Extrahepatic portosystemic shunt present, width of approximately 8.0 mm, appeared to be deriving from the splenic vein juncture with the portal vein, decoursing dorsally and entering into the vena cava. The residual portal vein measured 4.0 mm. The shunt measured maximum 8.0 mm. The vena cava measured 7.0 mm. The aorta measured 5.0 mm at the portal hilus.

HOSPITAL NAME

Rockaway AH

Gastrointestinal

REFERRING VET

Dr. Maniar

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

INVOICE

13995

Pancreas

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

DATE

2/19/22

ULTRASONOGRAPHIC FINDINGS



PATIENT

Bronx Huff

- Splenocaval shunt
- Bladder calculi
- Swollen kidneys
- Microhepatica

SPECIES

Canine

BREED

Shih Tzu

SEX

Intact Male

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Clinical management with the following protocol recommended until surgical intervention can occur for correction of splenocaval shunting.

Hepatic Support for Bile Acid Elevation +/- Hepatic Encephalopathy

Royal Canin Hepatic Support diet or Hills L/D, Metronidazole (7.5 mg/kg PO bid) over the next 14 days, Lactulose (Oral: 3.1-3.7 g/5 ml lactulose in a syrup base) long term to target 2-3 soft stools/day, with a high-quality protein supplement of minor amount of yogurt or cheddar cheese. Monitor bile acids, with attention paid to dropping albumin, BUN or cholesterol. SAME and nutraceuticals as needed. Ursodiol (10-15 mg/kg p.o. q24h) can be considered as hepatoprotectant and to enhance bile flow. Zinc serum level keep between 200—500 ug/dl. If deficient then Tx zinc acetate 1-3 mg/kg/day. Gastrointestinal protectants are recommended if the patient is anorexic.





PATIENT

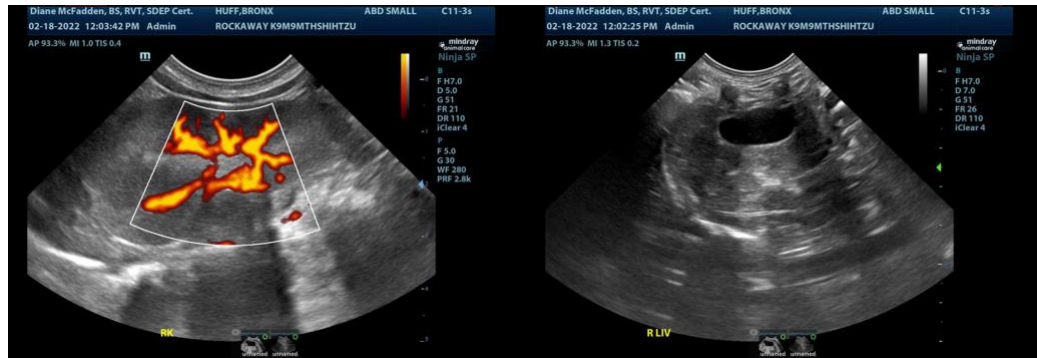
Bronx Huff

SPECIES

Canine

BREED

Shih Tzu



SEX

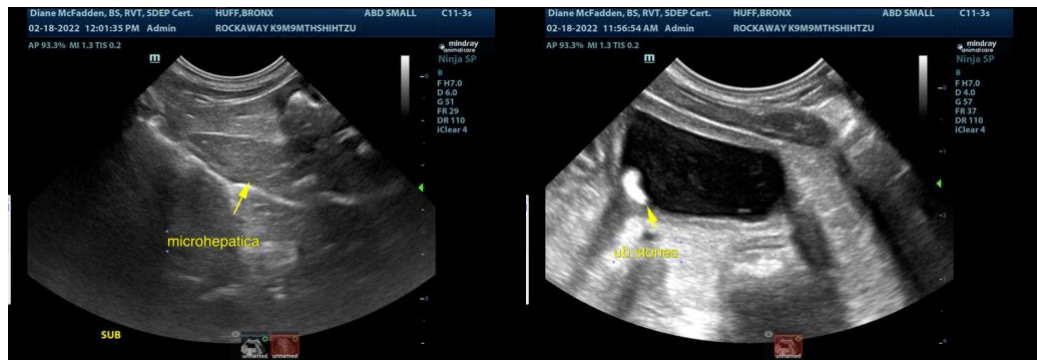
Intact Male

AGE

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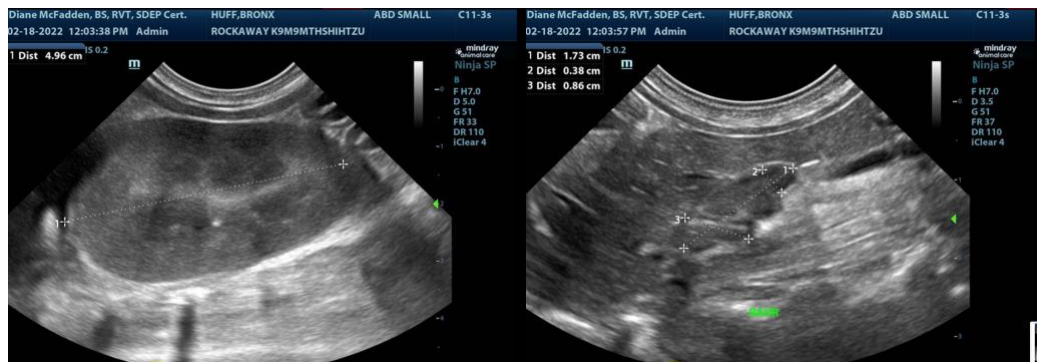
Dr. Maniar

INVOICE

13995

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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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com
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