



PATIENT

Skips Bautista

PRESENTING CLINICAL SIGNS

Dx with PSS at Blue Pearl via a bile acids
Abnormal PE/Chem/CBC/UA Results: ALKP 584, ALT 307

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

Yorkie X

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal. The prostate was uniform at 1.5 cm.

SEX

Intact Male

The **kidneys** were slightly swollen with minor pinpoint mineralizations noted. The right kidney measured 4.6 cm. The left kidney measured 4.3 cm.

Adrenal Glands

AGE

2 Years

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 1.31 cm x 0.36 cm at the caudal pole and 0.29 cm at the cranial pole. The right adrenal gland measured 1.52 cm x 1.0 cm at the cranial pole and 0.32 cm at the caudal pole.

WEIGHT

N/A

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

The **liver** was subnormal in size with coarse architecture. The gallbladder and common bile duct were unremarkable.

IMAGING PERFORMED BY

Diane Mcfadden

Vena cava/aortic ratio was 1:1 at 5.0 mm width each. The residual portal vein was visible, measuring 2.0 mm.

HOSPITAL NAME

Parsippany Troy Hills

Gastrointestinal

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.

REFERRING VET

Dr. Dulude

Pancreas

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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

3/18/22



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Canine

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Yorkie X

SEX

Intact Male

AGE

2 Years

WEIGHT

N/A

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ULTRASONOGRAPHIC FINDINGS

- Swollen kidneys
- Subnormal portal vein, vena cava and aortic ratios
- Concurrent inflammatory hepatopathy with mild to moderate remodeling

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

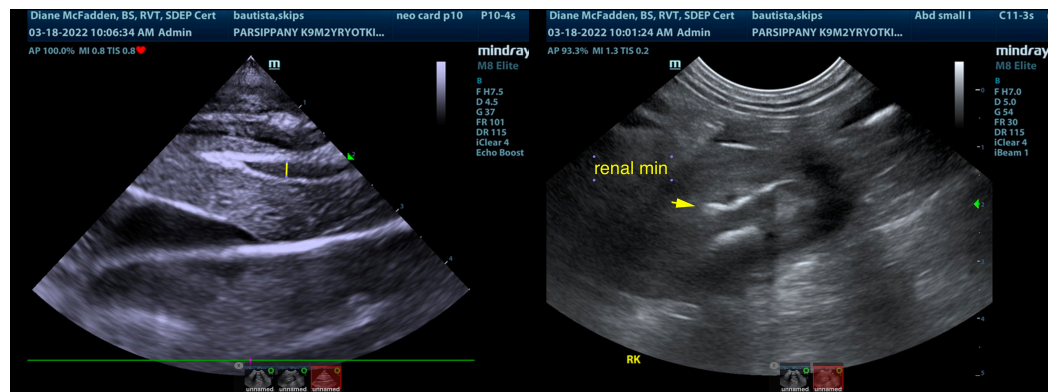
Subnormal portal vein, vena cava and aortic ratios were present. However, the vena cava and aortic ratio was normal. This would suggest potential azygos shunt. CT with contrast indicated.

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.

SonoPath CT Services are offered at the [Blairstown Animal Hospital](#). Blairstown animal hospital is just a 30-minute drive west on route 80 from the route 80/287 interchange/Parsippany, New Jersey. More information can be found at:

<https://sonopath.com/resources/sonopaths-teleconsultation-services-and-sdep-certification/sonopath-ct-services>





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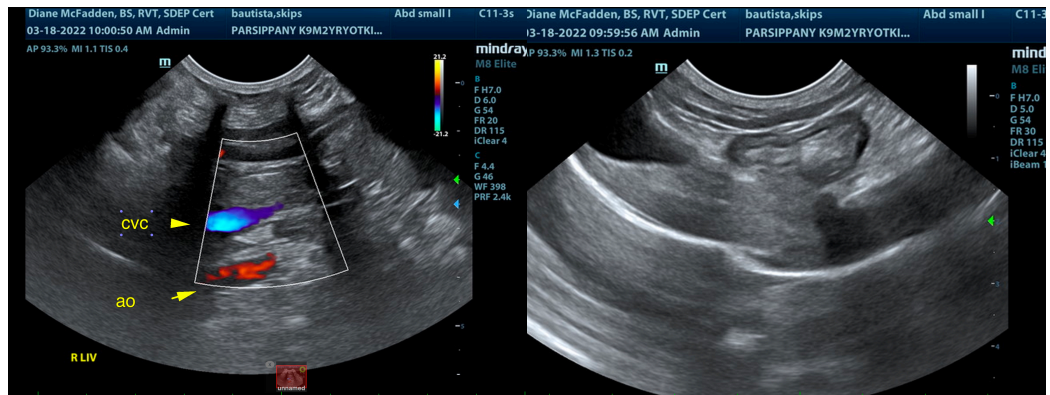
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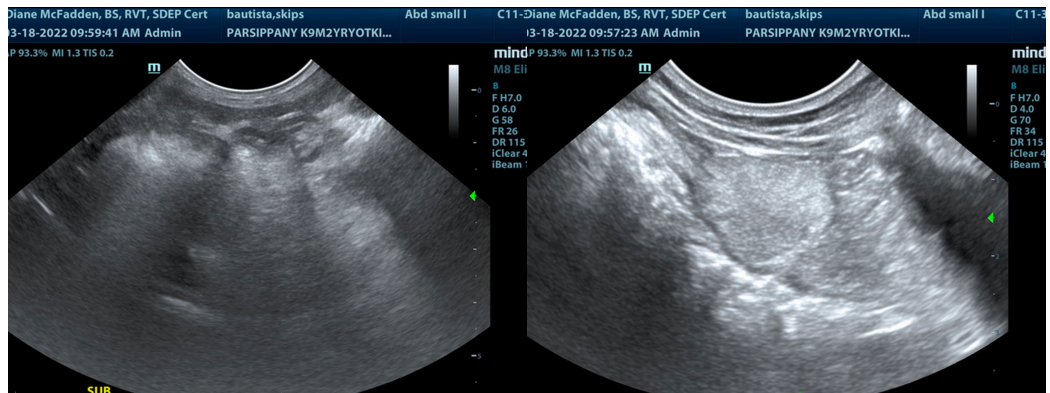
Intact Male

AGE

2 Years

WEIGHT

N/A



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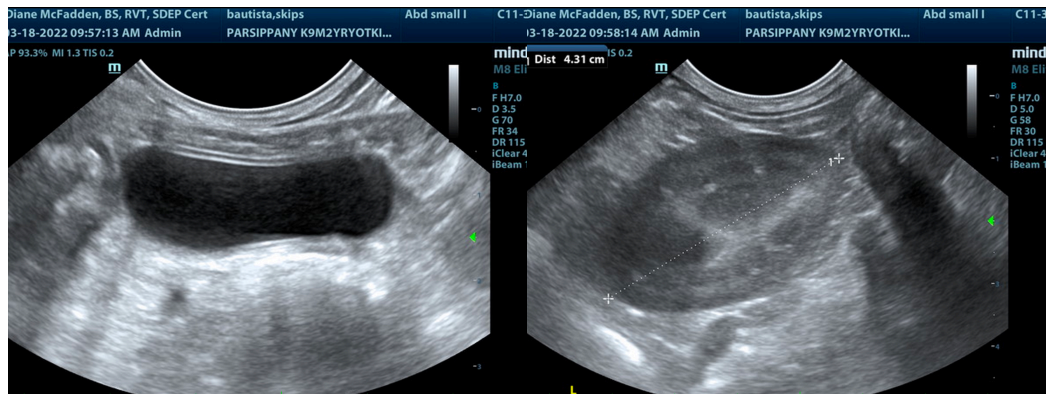
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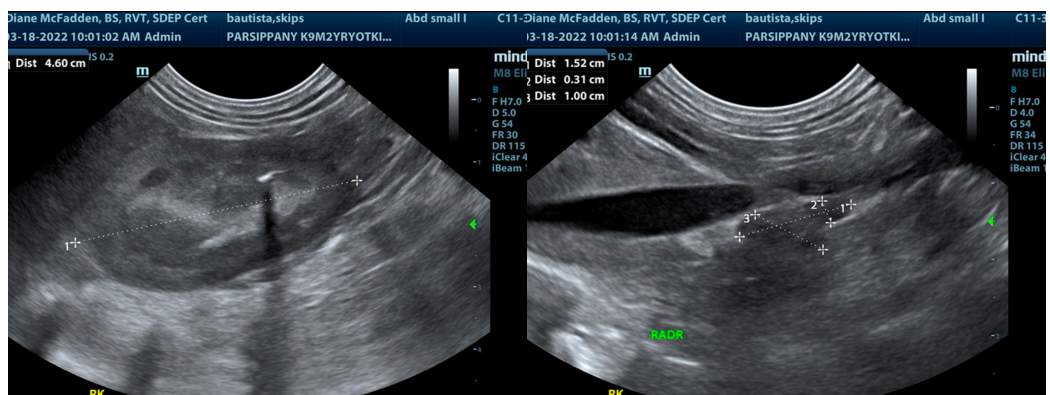
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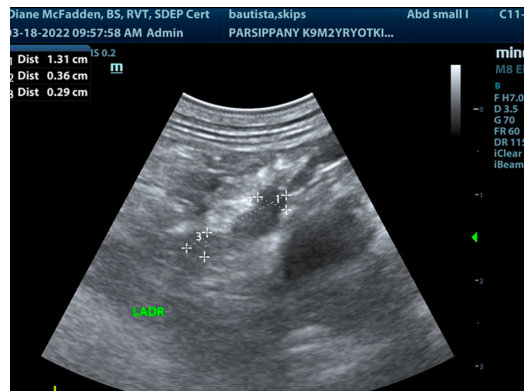
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WEIGHT

N/A

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.

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