



PATIENT

PRESENTING CLINICAL SIGNS

Chai Rosado

Pre/Post prandial bile acids results read: Pre: 95.3, Post 68.2 - specialist recommended abdominal ultrasound.

SPECIES

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine

Urinary System

BREED

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.

Dachshund

SEX

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The right kidney measured 3.7 cm. The left kidney measured 3.35 cm.

Spayed Female

AGE

Adrenal Glands

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 right adrenal gland measured 1.23 cm x 0.30 cm at the caudal pole and 0.90 cm at the cranial pole. The left adrenal gland measured 1.69 cm x 0.27 cm at the caudal pole and 0.28 cm at the cranial pole.

WEIGHT

Spleen

10.5 Pounds

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

Liver

Eric Lindquist, DMV

The **liver** was mildly subnormal in size. The gallbladder and common bile duct were unremarkable. Minor increased portal markings noted.

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Kelly Vazquez

Portal vein to vena cava ratio was 1:1. No evidence of extrahepatic shunting. Both measured 0.6 cm.

HOSPITAL NAME

Gastrointestinal

Animal Paradise

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. Bravo

INVOICE

Pancreas

39879

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

7/27/22



PATIENT

Chai Rosado

ULTRASONOGRAPHIC FINDINGS

- Mild microhepatica – portal hypoplasia/microvascular dysplasia suspected.

SPECIES

Canine

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No evidence of intrahepatic or extrahepatic shunting. Core biopsy would be necessary for further definition. However, medical management with the following could be considered. Given the hepatic remodeling noted, Leptospirosis titers indicated.

BREED

Dachshund

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.

SEX

Spayed Female

AGE

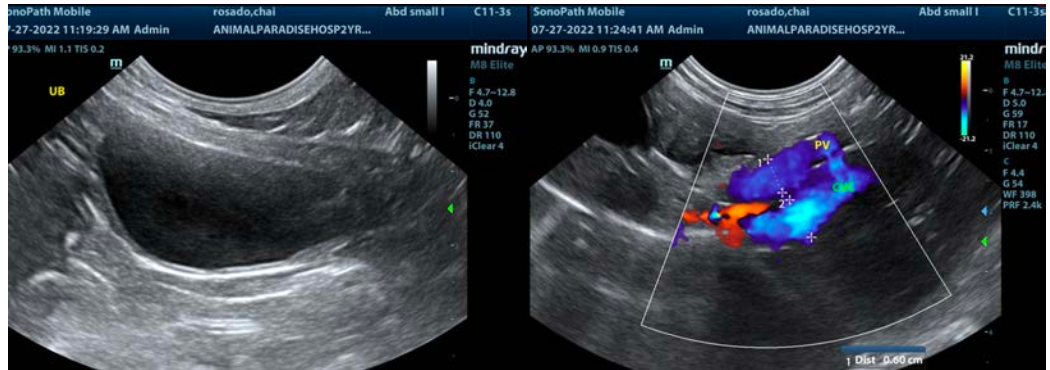
2 Years

WEIGHT

10.5 Pounds

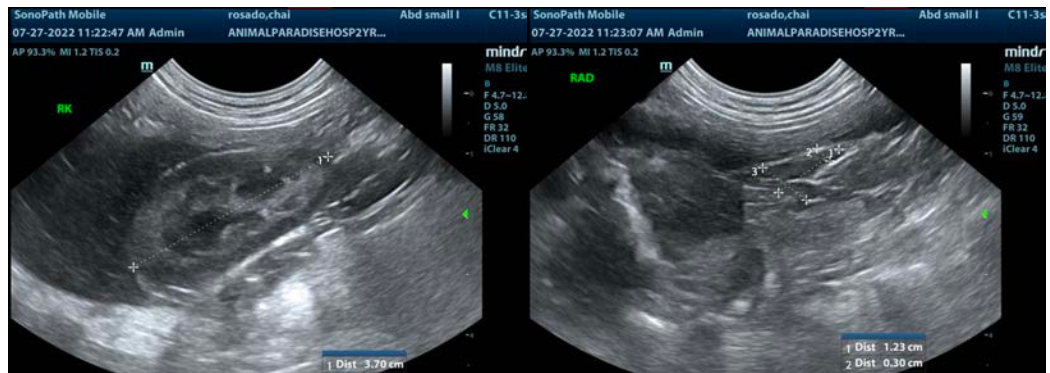
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SPECIES

Canine

BREED

Dachshund

SEX

Spayed Female

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2 Years

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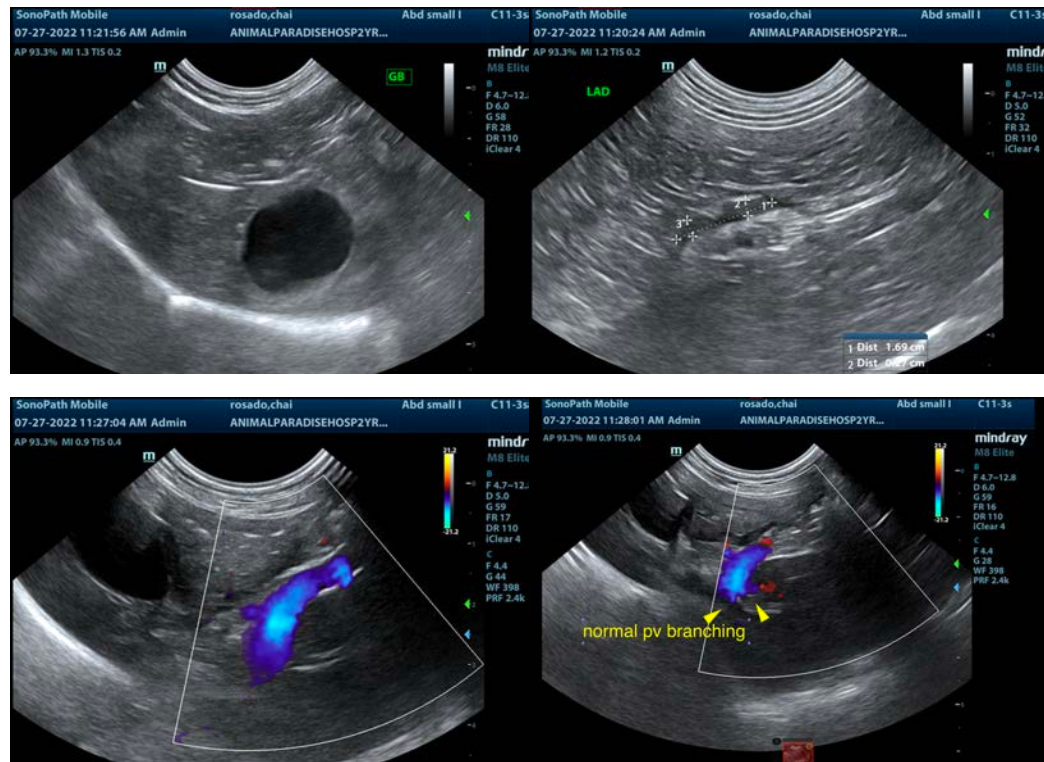
Dr. Bravo

INVOICE

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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.

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

info@SonoPath.com