

**DATE PRESENTING CLINICAL SIGNS**

12/10/21

PATIENT

Alli Benfield

SPECIES

Canine

BREED

Miniature Schnauzer

SEX

Female Intact

AGE

7/10/20

WEIGHT

8.8 Lbs.

INTERPRETED BYEric Lindquist, DMV
DABVP, Cert. IVUSS**IMAGING PERFORMED BY**

Rachel Brillhart RDMS

HOSPITAL NAME

Churchville VC

REFERRING VET

Dr. Hoerle

INVOICE

13001

History: 12/6/2021 - Presented for spay, normal hx and PE. ALT 588 on pre-anesthetic labwork. Bile acids/expanded chemistry and UA sent to Idexx on 12/6 - will have available at scan. Per owner pt vomited 1-2 times over the weekend but generally BAR at home, nothing remarkable to report.

Current Medications: Denamarin Advanced started on 12/6/2021.

Lab Results: ALT 588, Bile acid pending, Expanded chemistry pending, UA pending.

Date of Previous IntraPet Ultrasound: No previous IntraPet scans.

Sedation: Not required to complete full diagnostic ultrasound.

Stat Report: Not requested.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**Urinary System**

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 **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 3.46 cm. The left kidney measured 3.51 cm.

Adrenal Glands

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 1.29 cm x 0.48 cm at the caudal pole and 0.57 cm at the cranial pole. The left adrenal gland measured 1.65 cm x 0.57 cm at the caudal pole and 0.57 cm at the cranial pole.

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.

Liver

The **liver** was slightly subnormal in size (2.84 cm in short axis) with coarse architecture and increased portal markings. The gallbladder and common bile duct were unremarkable. The portal vein the vena cava ratio is 1:1. No evidence of extrahepatic shunting.

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.

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.

Other

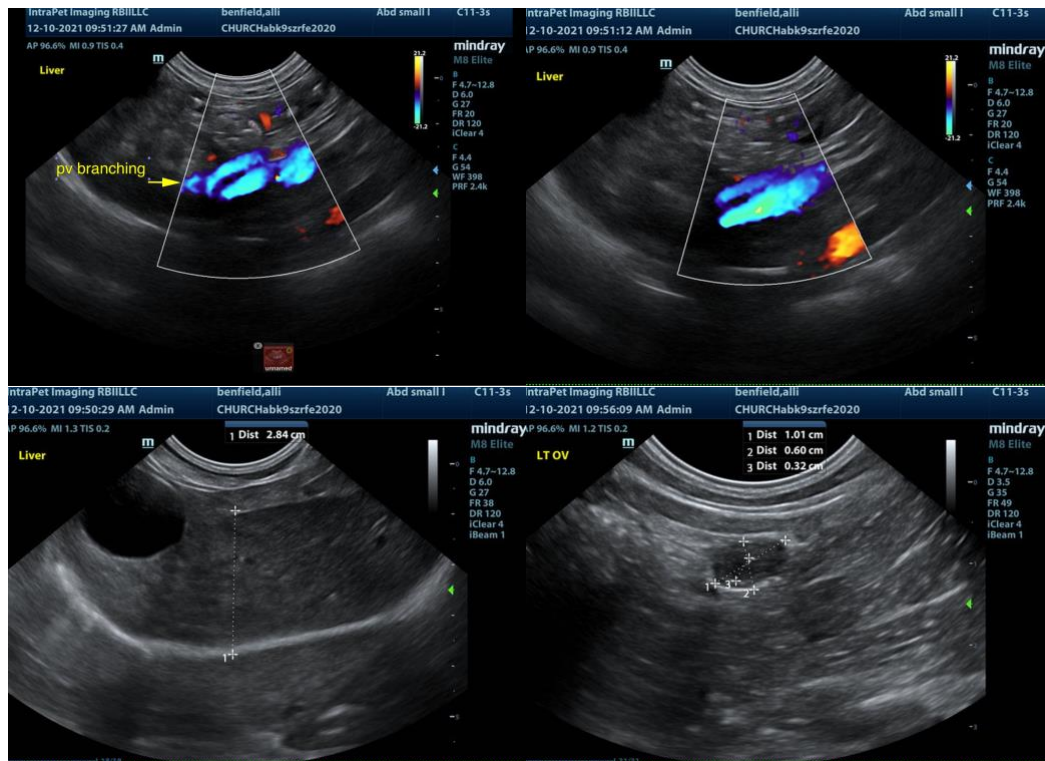
The **ovaries** were uniform. The left ovary measured 0.6 cm. The right ovary measured 0.64 cm. The **uterus** was uniform.

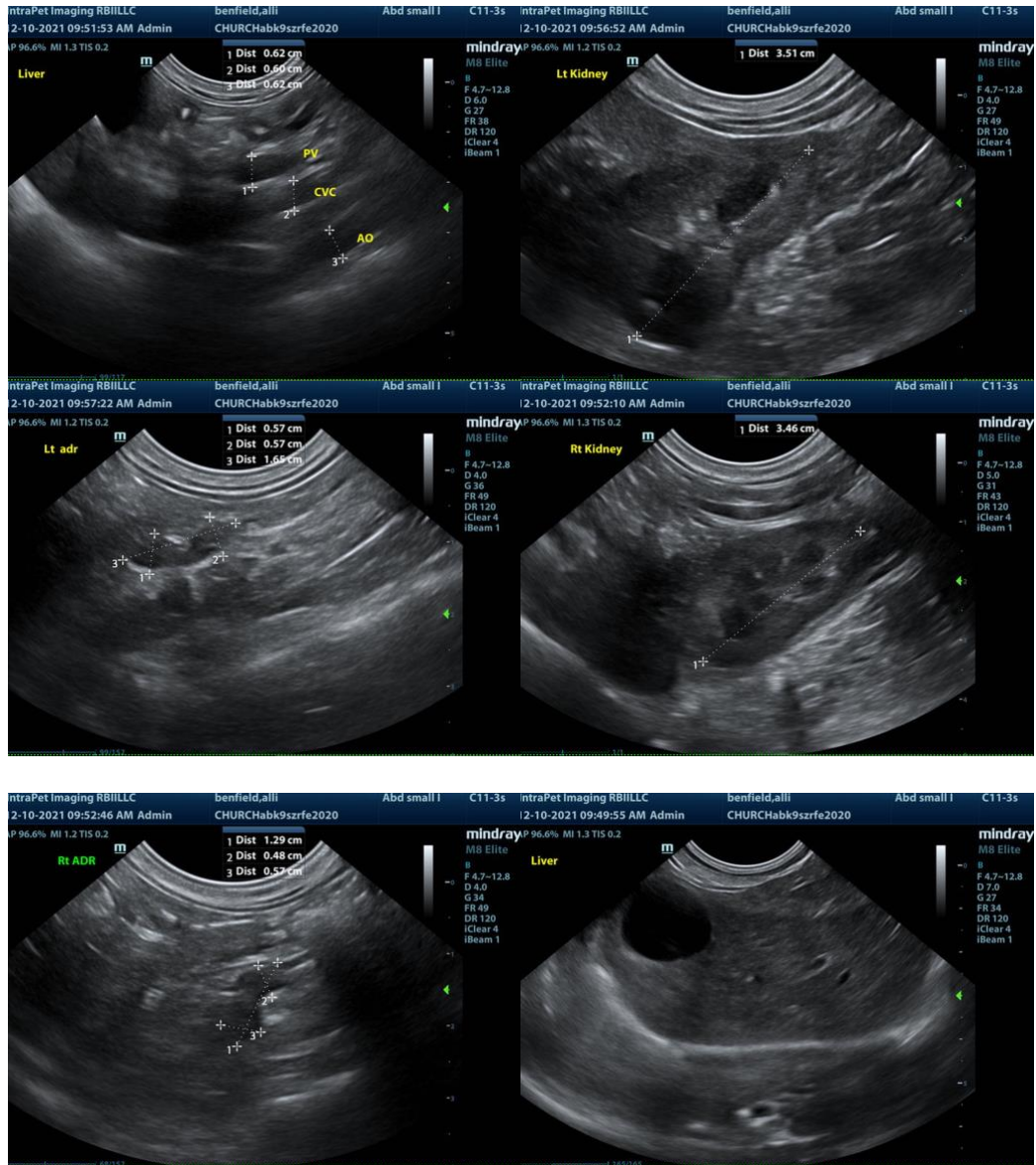
ULTRASONOGRAPHIC FINDINGS

- Cholangiohepatitis liver presentation with mild microhepatica

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No evidence of intrahepatic or extrahepatic shunting. Leptospirosis titers warranted. Liver biopsy warranted, could be performed at the time of surgery if bile acids are not exceedingly elevated. Branching of the portal vein was normal (1:1 ratio with the vena cava).





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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