

**PATIENT PRESENTING CLINICAL SIGNS**

**PATIENT** Alfee Bains  
**SPECIES** Canine  
**BREED** Yorkie X

History: Was in for neuter yesterday which was cancelled due to bloodwork elevations in ALT and SDMA Random bile acids test performed yesterday - 12 (0-14.9) so recommended pursuing ultrasound Sent home with Aventi Liver complete tabs Gave first dose yesterday, took him for a walk in the afternoon, in the evening went to emerg for tremoring, lethargy with loss of bladder control. Better this morning, ate and drank, normal urination/defecation. Aventi GI Complete tab 1/2 tab SID started yesterday afternoon. Concerned about liver shunt.

Abnormal PE/Chem/CBC/UA Results: Alt 144 SDMA 24.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**SEX** *Urinary System*

**SEX** Intact Male  
**AGE** 8 Months

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 pelvic urethra was imaged 1.0 cm beyond the cystourethral junction.

**WEIGHT** 3.1 kg

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 left kidney measured 3.24 cm. The right kidney measured 3.01 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 0.79 cm x 0.65 cm at the cranial pole and 0.34 cm at the caudal pole. The left adrenal gland measured 0.8 cm x 0.26 cm at the caudal pole and 0.33 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. The portal vein to vena cava ratio was 1:1. No evidence of intrahepatic or extrahepatic shunting. Portal vein branching was identified. Portal vein measured 4.0 mm. The vena cava measured 4.0 mm. The gallbladder and common bile duct were unremarkable.

**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

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Crystal Hill

**HOSPITAL NAME**

Snelgrove VS

**REFERRING VET**

Dr. Loannou

**INVOICE**

14666

**DATE**

4/8/22



**PATIENT**

Alfee Bains

demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

**Pancreas**

**SPECIES**

Canine

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.

**BREED**

Yorkie X

**ULTRASONOGRAPHIC FINDINGS**

- Normal abdomen with minor microhepatica probable portohypoplasia/microvascular dysplasia. No evidence of macroscopic portosystemic shunting.

**SEX**

Intact Male

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

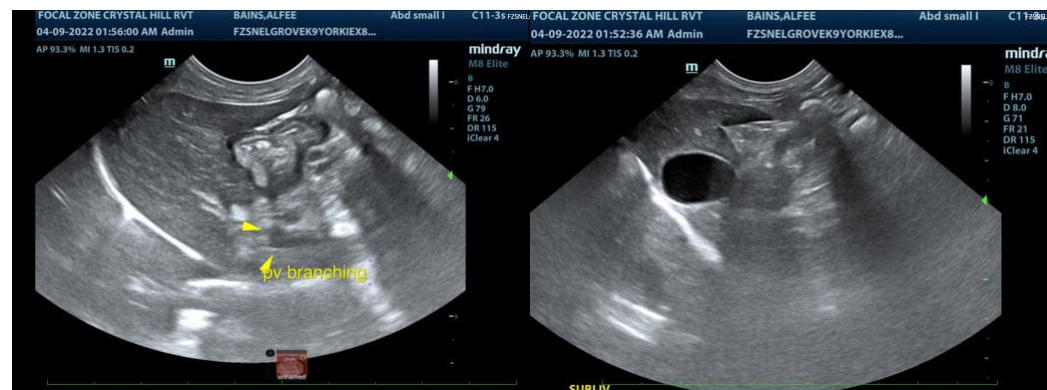
Other causes of the clinical signs should be considered. I do not believe that they are related to any evidence of liver disease.

**AGE**

8 Months

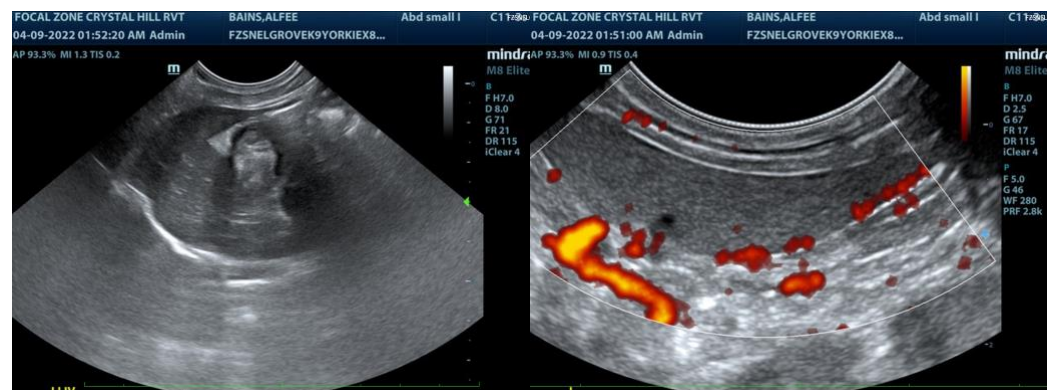
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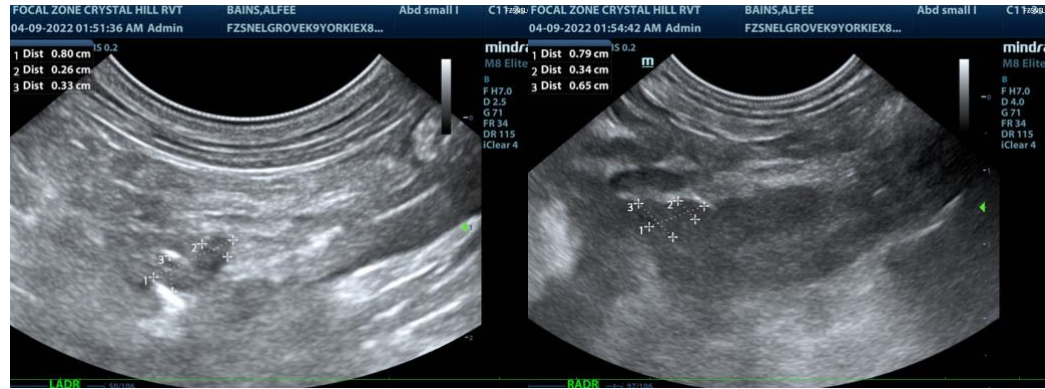
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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