



**PATIENT**

Snowball Wolenski

**PRESENTING CLINICAL SIGNS**

Elevated ALT, seizures. R/O Shunt vs other. Current meds: 250mg KBR q24h. Abnormal PE/Chem/CBC/UA Results: ALT 412, ALKP 257, USG 1.033

**SPECIES**

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

**BREED**

Bichon Frise

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 was noted. Ureteral papillae were normal.

**SEX**

Spayed Female

**AGE**

12 years

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for this age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. The left kidney measured 3.55 cm. The right kidney measured 3.94 cm.

**WEIGHT**

15 lbs

**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 1.77 x 0.64 cm at the cranial pole and 0.38 cm at the caudal pole. The left adrenal gland measured 1.16 x 0.37 cm at the cranial pole and 0.38 cm at the caudal pole.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Shari Reffi, CVT

**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 was noted. The spleen measured 1.01 cm.

**HOSPITAL NAME**

Tranquility VC

**REFERRING VET**

Dr. Chirstensen

**Liver**

The **liver** revealed coarse architecture and normal size. The portal markings were increased and there was hepatic remodeling. Mild irregular caudate process was noted in this patient. The gallbladder was unremarkable.

**INVOICE**

95349

**DATE**

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**Gastrointestinal**

Snowball Wolenski

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.

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**Pancreas**

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Some parenchymal remodeling, however, with mild deviation from curvilinear normalcy was observed. Pancreatic duct and capsular irregularities were present consistent with age related changes. If pain upon imaging (+ Murphy sign) was present or if the patient is focally painful in subxiphoid palpation then low-grade smoldering chronic pancreatitis should be suspected.

**AGE**

12 years

**ULTRASONOGRAPHIC FINDINGS**

Non-specific hepatic remodeling.  
Minor pancreatic remodeling.

**WEIGHT**

15 lbs

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

There was no evidence of intrahepatic or extrahepatic shunting. FNA of the liver can be considered for further definition as well as bile acid profile. However, given the seizure activity brain CT with contrast would be indicated.

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Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**ABOUT SONOPATH CT SERVICES:**

**SonoPath CT Services** are offered at the [Blairstown Animal Hospital](http://Blairstown Animal Hospital). Blairstown, New Jersey. More information can be found at

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

**IMAGING PERFORMED BY**

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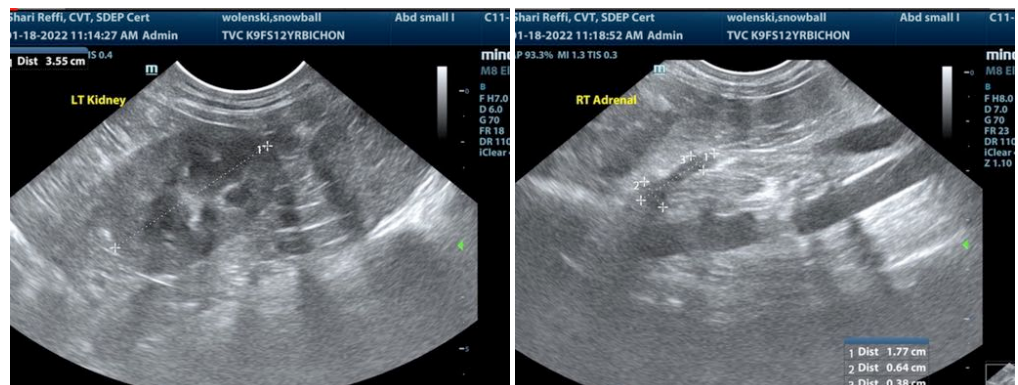
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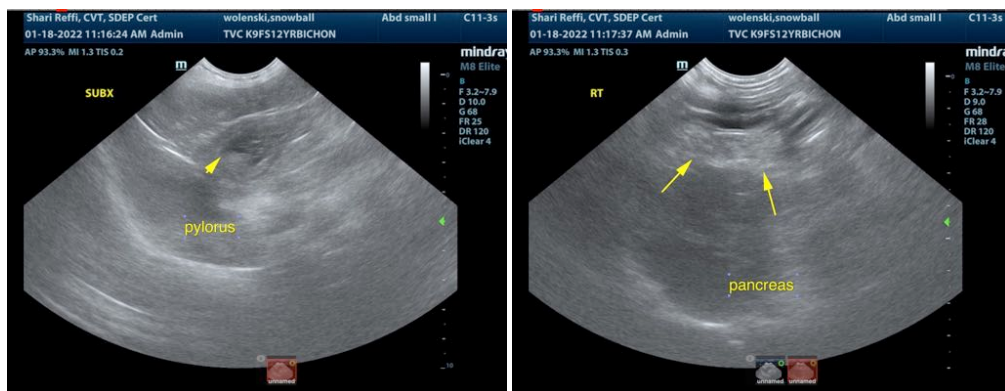
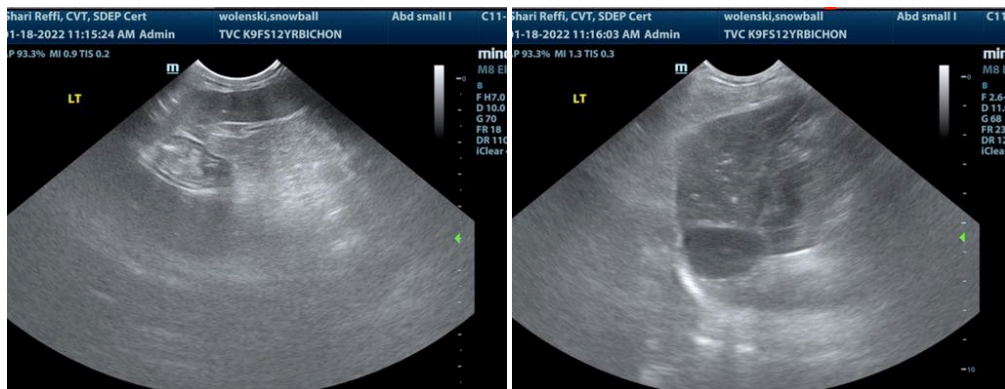
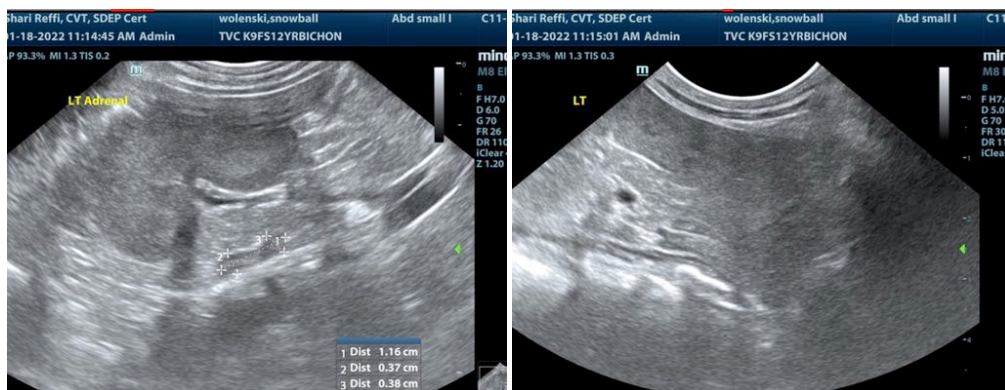
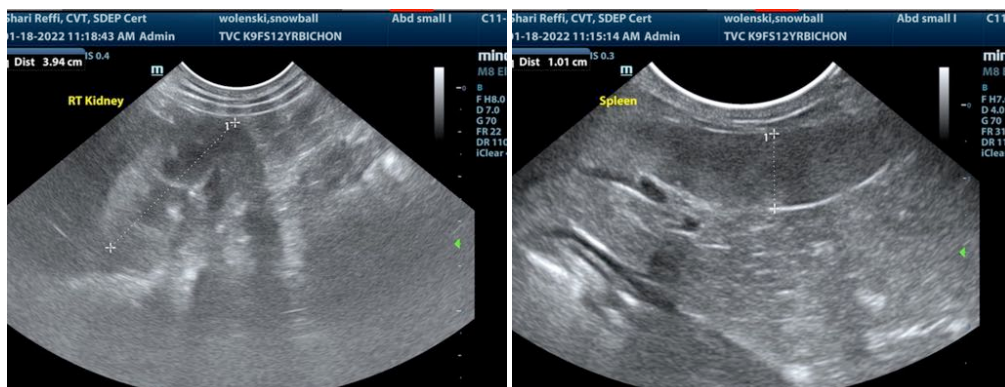
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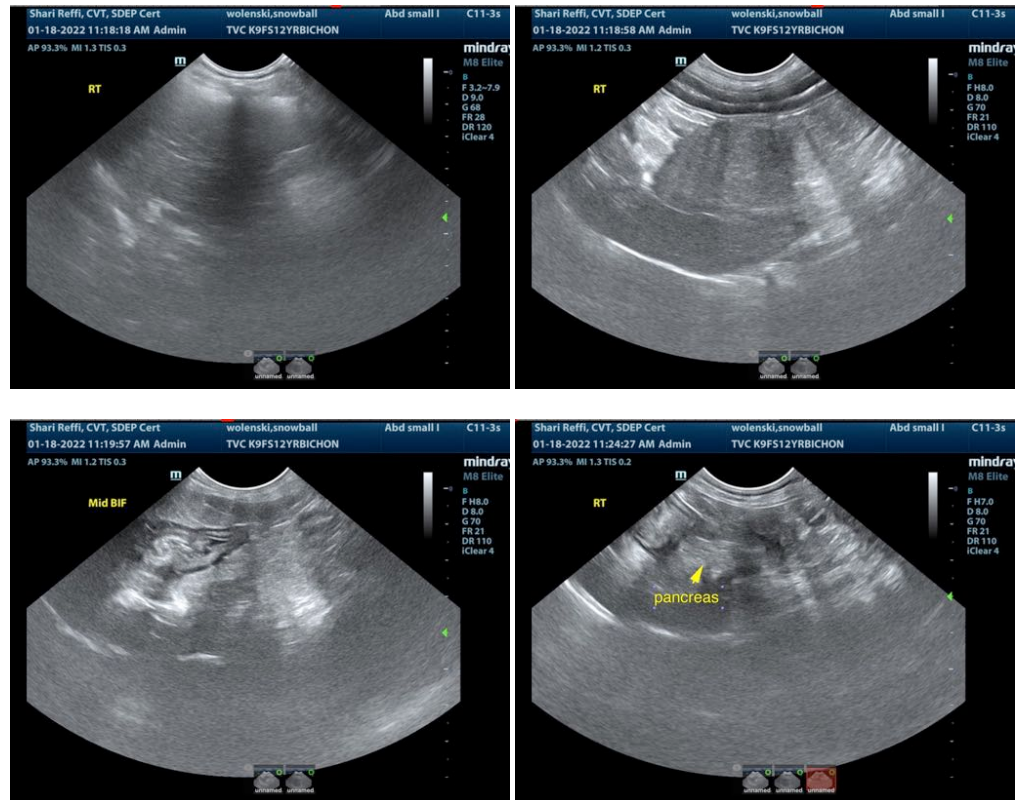
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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