



**PATIENT PRESENTING CLINICAL SIGNS**

Abby Greenstein History: Petite mal seizures. Persistent progressive and elevated ALP activity, triglycerides, and PSL. No PuPd. On low fat intestinal diet.

**SPECIES** Physical Examination: N/A.

Canine Urinalysis: SG 1.040, calcium oxalate crystals.

**BREED** CBC: N/A.

Shih Tzu Serum Biochemistry: Elevated ALP activity, triglycerides, and PSL.  
Radiographic Findings: N/A.

**SEX**

FS

**AGE**

10 years

**WEIGHT**

16.1 #

**INTERPRETED BY**

Remo Lobetti, BVSc,  
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ECVIM

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

Small urinary bladder with a normal thickness and appearance of the wall. Normal anechoic urine with no sediment or uroliths evident.

Normal trigone area, proximal urethra, and iliac blood vessels.

Normal iliac lymph nodes. Ureters not visualized.

Normal renal size (left 4 cm, right 4.1 cm), with increased echogenic appearance, some loss of cortico-medullary differentiation, and normal pelvis and capsule.

**Reproductive System**

N/A.

**Adrenal Glands**

Normal shape, echogenic appearance, position, and size. Left 0.92 x 0.36 cm, right 1.03 x 0.43 cm.

**Spleen**

Normal size and echogenic appearance. Smooth homogenous parenchyma, regular curvilinear capsule, and normal vasculature. No evidence of inflammatory, neoplastic, infarction, or infiltrative changes noted.

**Liver**

Normal size with a mottled and nodular echogenic appearance, some loss of portal markings, and regular curvilinear capsule. Nodules are faint, hypoechoic, and parenchymal. No masses evident. Full gall bladder containing moderate amount of hyperechoic sediment. Normal appearance and thickness of the gall bladder wall. Normal bile duct.

**INVOICE**

303509

**DATE**

10/26/22

**IMAGING PERFORMED BY**

Dr Megan Cassels-Conway,  
DVM

**HOSPITAL NAME**

Central Broward Animal  
Hospital

**REFERRING VET**

Dr Oms



**PATIENT** *Gastrointestinal*

Abby Greenstein Normal appearance of the stomach, duodenum, small intestine, ileo-cecal junction, and colon with no loss of layering, normal wall thickness and peristaltic activity, and no distension of the lumen.

**SPECIES** *Pancreas*

Canine Normal size with a diffuse mottled echogenic appearance. Normal echogenic appearance of the mesentery and fat surrounding the pancreas.

**BREED** *Free Abdomen*

Shih Tzu No mesenteric lymphadenomegaly.  
No ascites.

**SEX**

FS

**ULTRASONOGRAPHIC FINDINGS**

**AGE**

10 years

- Primary Findings:
- Hepatopathy.
  - Chronic pancreatitis.

**WEIGHT**

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- Secondary Findings:
- Gall bladder sediment.
  - Age-related renal changes.

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Etiologies for the hepatopathy would be reactive, vacuolar, drug-induced, nodular regeneration, chronic hepatitis, granulomatous disease, and neoplasia.

The appearance of the pancreas is consistent with chronic pancreatitis.

Further assessment would be FNA cytology of the liver, although Tru-Cut/wedge biopsy may be required for a final etiological diagnosis.

Specific therapy would be dependent on an etiological diagnosis. Symptomatic management of the liver and gall bladder would be ursodiol.

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**PATIENT IMAGES**

Abby Greenstein

**Liver**

**SPECIES**

Canine

**BREED**

Shih Tzu

**SEX**

FS

**AGE**

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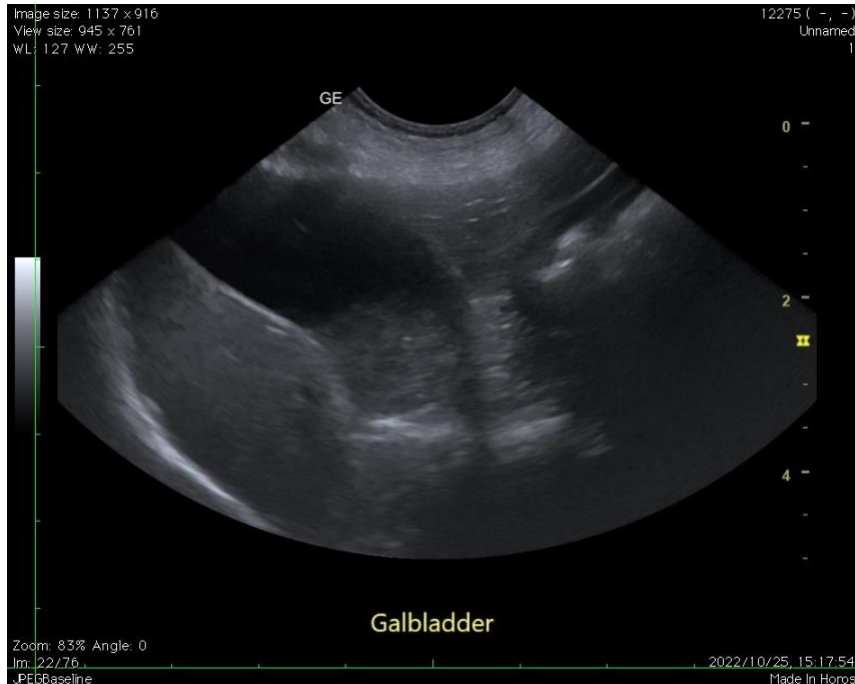
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**Gall bladder**





**PATIENT**      **Pancreas**

Abby Greenstein

**SPECIES**

Canine

**BREED**

Shih Tzu

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FS

**AGE**

10 years

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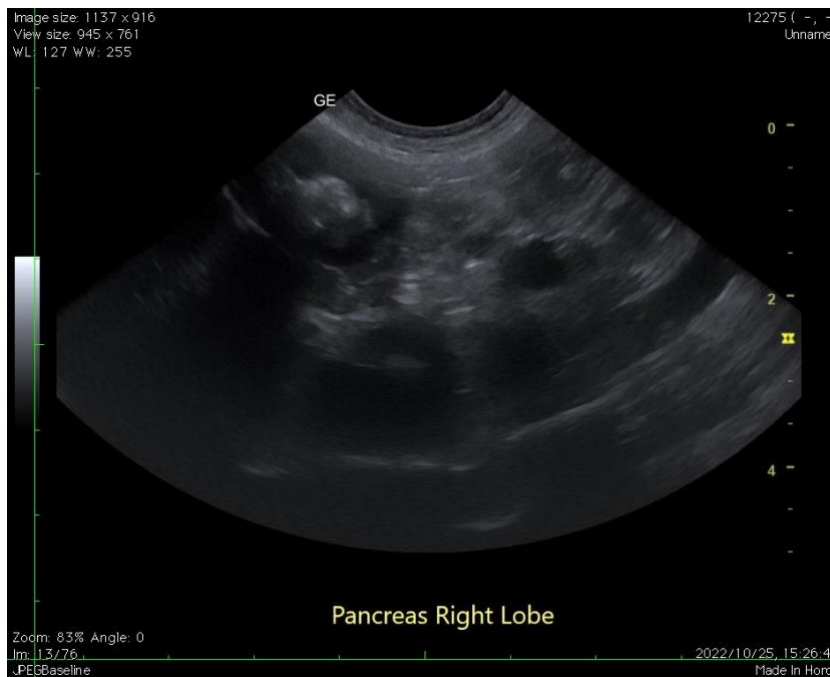
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**The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.**

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.

**Remo Lobetti, BVSc, MMedVet (Med), PhD, Dipl. ECVIM (Internal Medicine)**  
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