

**PATIENT PRESENTING CLINICAL SIGNS**

Fritz Burgess Chronic ADR, decreased appetite, intermittent diarrhea.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**SPECIES**  
*Urinary System*

Canine

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 residual prostate measured 5.0 mm.

**BREED**

Shih Tzu

**SEX**

Neutered Male

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 his age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. Occasional cortical cysts noted. The left kidney measured 4.65 cm. The right kidney measured 4.65 cm.

**AGE**

14 Years

*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 left adrenal gland measured 1.63 cm x 0.62 cm. The right adrenal gland measured 1.77 cm x 0.98 cm at the cranial pole and 0.67 cm at the caudal pole.

**INTERPRETED BY**

Eric Lindquist, DMV  
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*Spleen*

**IMAGING PERFORMED BY**

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The **spleen** was largely smooth with subtle heterogeneous parenchymal changes while maintaining normal echogenic relationship to the liver and kidney. These changes are consistent with normal age-related alteration. The capsule was smooth without noticeable impingement from within the spleen or from pathology in the adjacent abdomen. The splenic vasculature demonstrated normal volume without signs of congestion or significant contraction. No evidence of active acute or chronic inflammatory, neoplastic, or infarctual changes were noted.

**HOSPITAL NAME**

Bergen County VC

*Liver*

**REFERRING VET**

Dr. Shiffman

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some age-related parenchymal remodeling was noted but likely not clinically significant at this time. A mixed echogenic nodular change was noted measuring 2.35 cm in the left liver with minor vascularity noted. Vascular and biliary tracts were of normal volume and no evidence of congestion was noted. The gallbladder presented some dependent debris with essentially normal contour. The cystic and common bile ducts were normal. No overt evidence of active inflammatory, infiltrative or regenerative pathology was noted but should be paired with current or past LE elevations regarding any clinical significance to this presentation. The hepatic lymph nodes were unremarkable.

**INVOICE**

24605

**DATE**

8/13/21

*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.



**PATIENT** *Pancreas*

Fritz Burgess 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 subxyphoid palpation then low-grade smoldering chronic pancreatitis should be suspected.

**SPECIES**

Canine

**ULTRASONOGRAPHIC FINDINGS**

**BREED**

Shih Tzu

- Left liver nodule
- Pancreatic remodeling
- Age related renal changes

**SEX**

Neutered Male

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The nodular change in the left liver is likely hyperplasia. Minor potential for carcinoma. FNA could be considered, yet unlikely to be related to the clinical signs. History of pancreatitis likely, however the patient was not painful upon imaging. Full CNS examination, orthopedic/spinal examination warranted as well chest radiographs. I do not feel that the abdominal presentation is responsible for the clinical signs.

**AGE**

14 Years

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**HOSPITAL NAME**

Bergen County VC

**REFERRING VET**

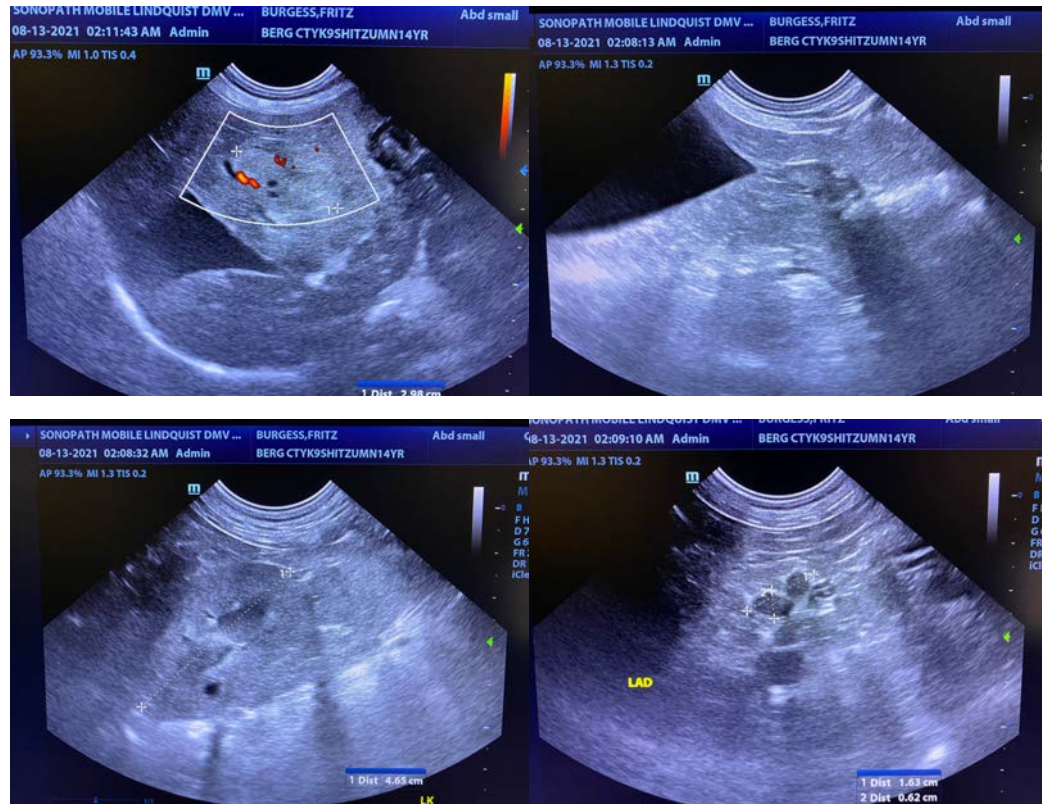
Dr. Shiffman

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**PATIENT**

Fritz Burgess

**SPECIES**

Canine

**BREED**

Shih Tzu

**SEX**

Neutered Male

**AGE**

14 Years

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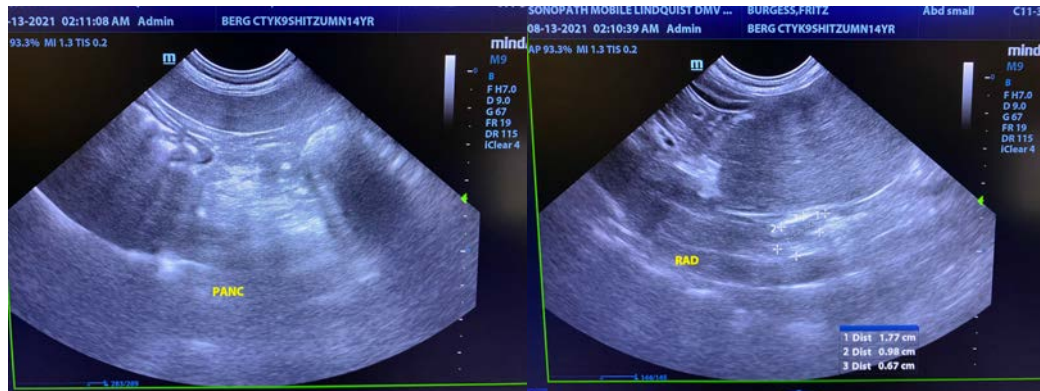
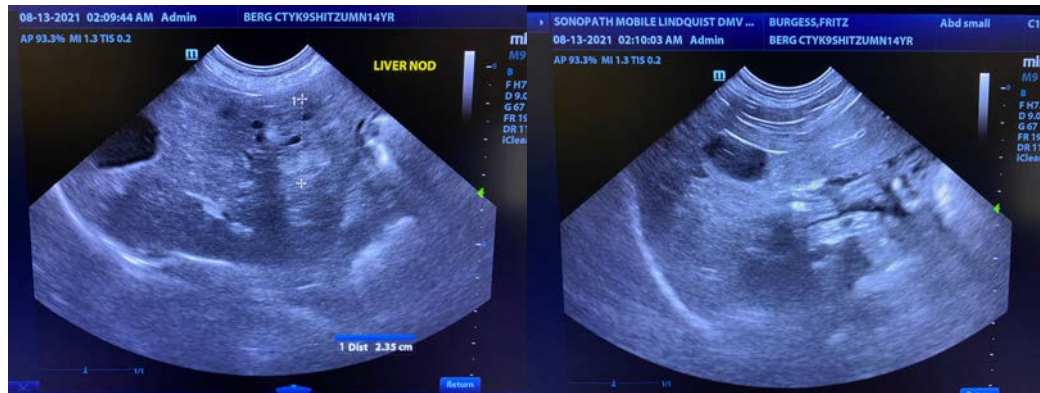
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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