



**PATIENT**

Max Friedman

**PRESENTING CLINICAL SIGNS**

History: wt loss over last several month on Deramaxx for arthritis cc v/d/anorexia/lethargy bw negative PLI BUN/SDMA are a bit elevated 2+ proteinuria usg1.040 resting cortisol and b12 pending

**SPECIES**

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

**BREED**

Shih Tzu

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**

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 this age patient. Medullary structure differed distinctly from that of the cortex. Occasional cortical cyst was noted. Minor pyelectasia was noted in the right kidney. The right kidney measured 3.7 cm. The left kidney measured 3.88 cm.

**AGE**

14 years

**WEIGHT**

11 lbs

**Adrenal Glands**

The right **adrenal gland** was enlarged and measured 0.8 cm at the cranial pole and 0.6 cm at the caudal pole. The left adrenal gland was normal and measured 0.5 cm with a cortical cyst in the left kidney.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**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.

**IMAGING PERFORMED BY**

Dr. Barnea

**HOSPITAL NAME**

Tenaflly VC

**Liver**

The **liver** was uniformly swollen with minor, excessive gallbladder debris and over distension with dependent and suspended bile without evidence of overt mucocele formation. However, excessive sludge was present. Some striating bile was noted. Minor bile stones were visualized, yet not obstructive. The gallbladder in long axis measured 4.0 x 2.5 cm. The liver presented coarse architecture with mildly increased portal markings and subtle, mixed echogenic changes. This is consistent with vacuolar hepatopathy and some level of remodeling and history of inflammatory component. There was no overt suspicion of neoplasia.

**REFERRING VET**

Dr. Barnea

**INVOICE**

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10/14/21



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**Gastrointestinal**

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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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Canine

**BREED**

Shih Tzu

**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.

**SEX**

Neutered male

**ULTRASONOGRAPHIC FINDINGS**

Prominent right adrenal gland. Likely a normal variant.

**AGE**

14 years

Moderate, chronic degenerative renal changes.

Emerging gallbladder mucocele.

**WEIGHT**

11 lbs

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Ursodiol therapy is warranted in this patient over the next 6-8 weeks ideally followed by a recheck ultrasound. I am most concerned about the chronic degenerative renal changes in this patient. Urine specific gravity should be monitored carefully as the kidneys appear approximately 50-60% compromised.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

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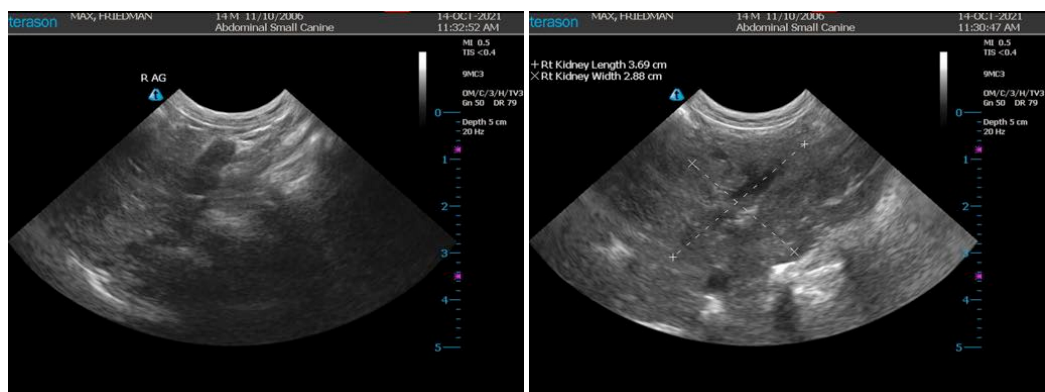
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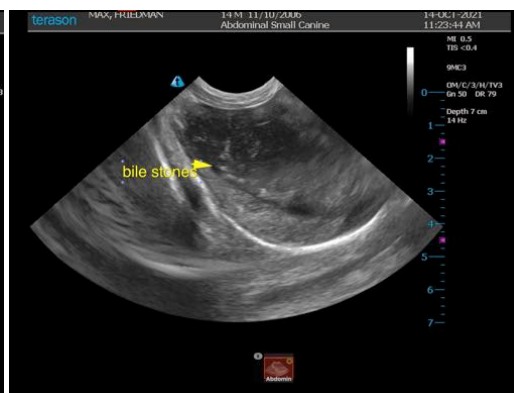
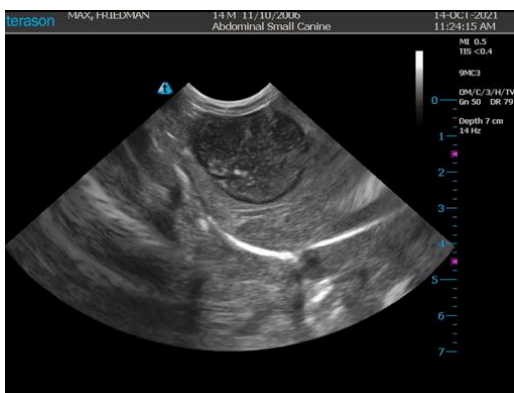
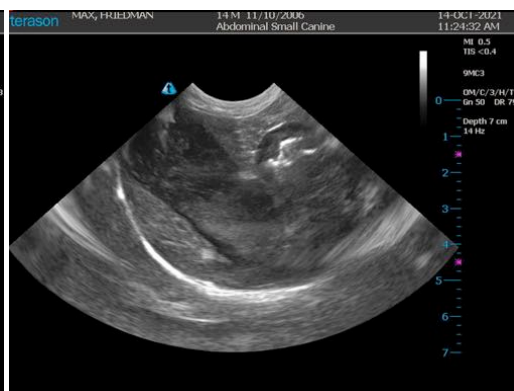
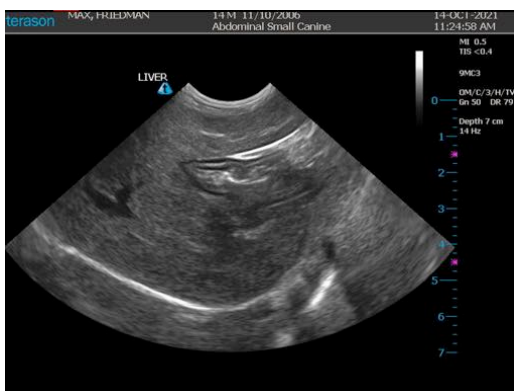
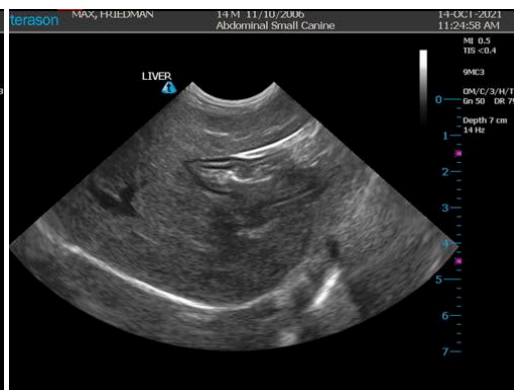
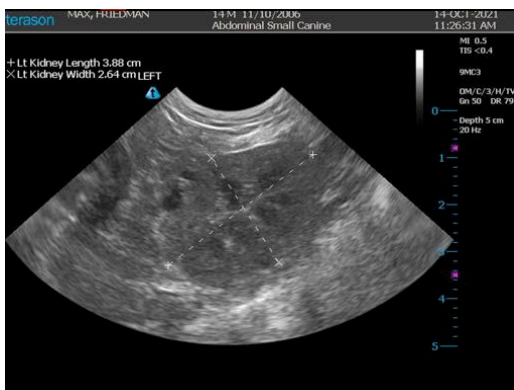
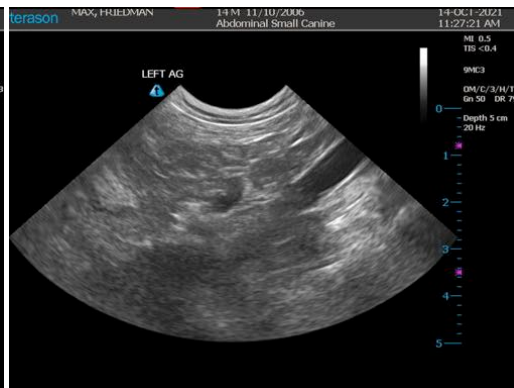
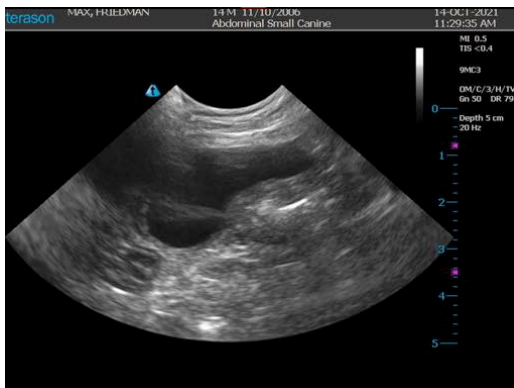
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

**SPECIES**

Canine

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.

**BREED**

Shih Tzu

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

**SEX**

Neutered male

**AGE**

14 years

**WEIGHT**

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