



**PATIENT PRESENTING CLINICAL SIGNS**

Lucy Daniels liver failure, gastroenteritis

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Canine 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 were noted. Ureteral papillae were normal. The pelvic urethra was imaged 1.0 cm beyond the cystourethral junction.

**SEX**

Spayed Female

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. The left kidney measured 3.85 cm. The right kidney measured 3.76 cm.

**AGE**

11 Years

**Adrenal Glands**

**WEIGHT**

23 Pounds

The **right adrenal gland** was 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 1.95 cm x 0.85 cm at the cranial pole and 0.61 cm at the caudal pole.

**INTERPRETED BY**

Eric Lindquist, DMV

The **left adrenal gland** was slightly irregular at the caudal pole, consistent with adenoma or hyperplasia. The left adrenal gland measured 1.67 cm x 0.87 cm at the caudal pole and 0.38 cm at the cranial pole.

DABVP, Cert. IVUSS

**Spleen**

**IMAGING PERFORMED BY**

Jenn

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.

**HOSPITAL NAME**

Rockaway AH

**Liver**

The **liver** revealed multifocal cystic and mixed hypoechoic complex masses, occupying the majority of the liver and deviating the diaphragm. Ill-defined margins noted. The masses expanded to approximately 10 cm, non-resectable. The masses occupied the left cranial and right cranial liver.

**REFERRING VET**

Dr. Maniar

**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.

**DATE**

5/5/22

**Pancreas**



**PATIENT**

Lucy Daniels

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.

**SPECIES**

Canine

**ULTRASONOGRAPHIC FINDINGS**

- Large hepatic masses, non-resectable – carcinoma suspected.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

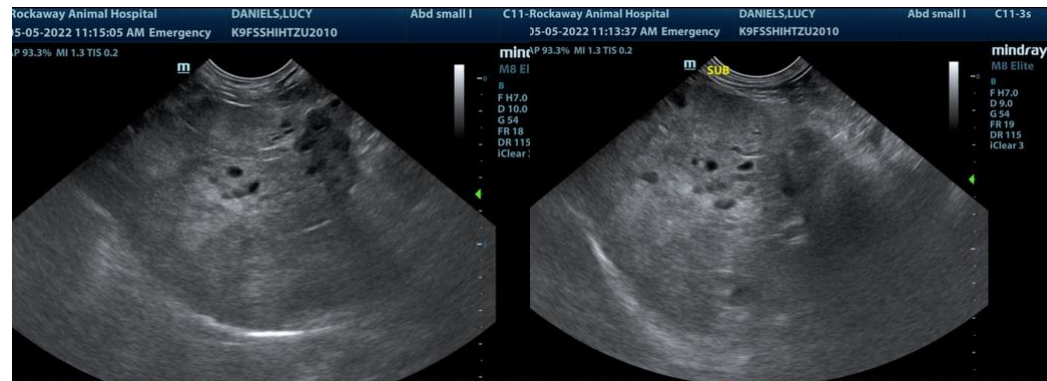
**BREED**

Shih Tzu

FNA of the parenchymal portions could be considered for further definition. Bile acid profile indicated to assess hepatic dysfunction if bilirubin levels are not elevated.

**SEX**

Spayed Female



**AGE**

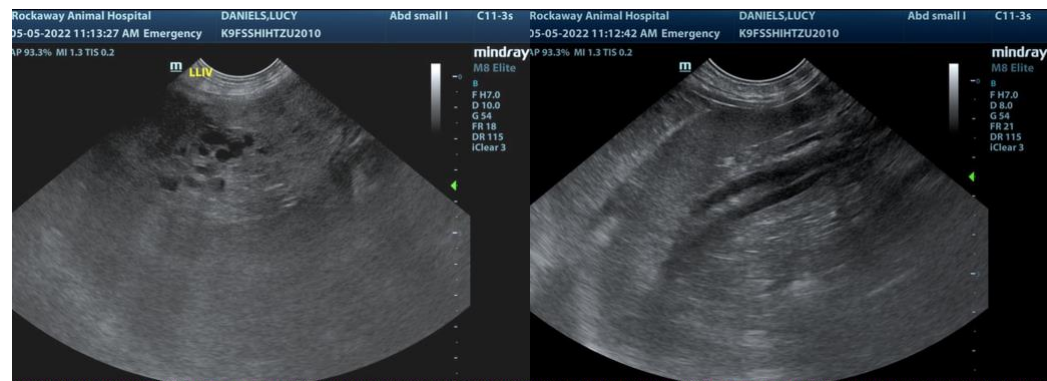
11 Years

**WEIGHT**

23 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV  
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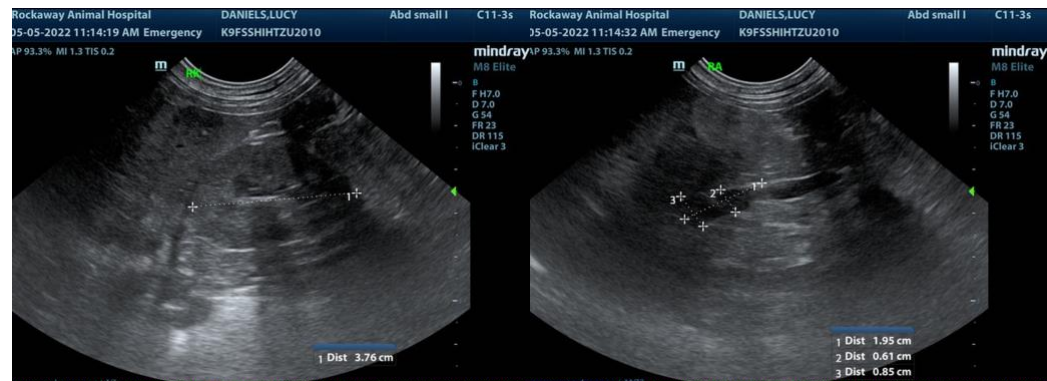


**IMAGING PERFORMED BY**

Jenn

**HOSPITAL NAME**

Rockaway AH



**REFERRING VET**

Dr. Maniar

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**DATE**

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## PATIENT

Lucy Daniels

## SPECIES

Canine

## BREED

Shih Tzu

## SEX

Spayed Female

## AGE

11 Years

## WEIGHT

23 Pounds

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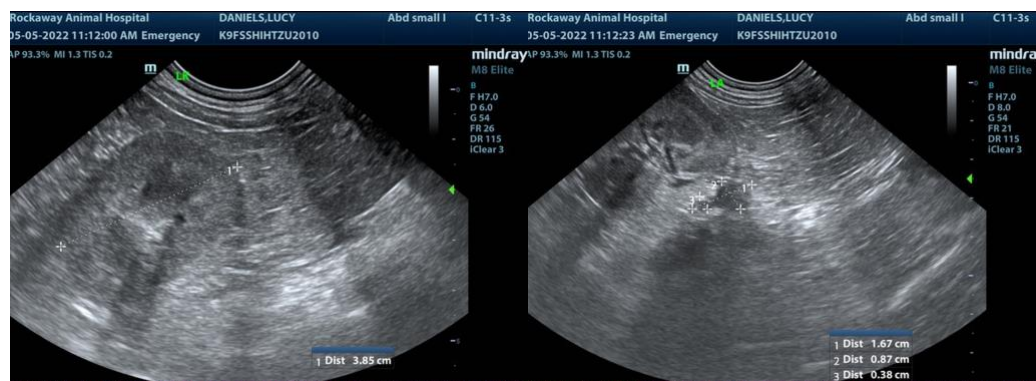
Dr. Maniar

## INVOICE

37402

## DATE

5/5/22



The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. 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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