



**PATIENT**

Lola Richman

**SPECIES**

Canine

**BREED**

Havanese

**SEX**

Spayed Female

**AGE**

13 years

**WEIGHT**

19 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING  
PERFORMED BY**

Jessica Miller, RDMS

**HOSPITAL NAME**

Summit Dog and Cat  
Hospital

**REFERRING VET**

Dr. Levitian

**INVOICE**

94395

**DATE**

12/8/21

**PRESENTING CLINICAL SIGNS**

History: Elevated liver enzymes. Current meds: Amoxi, Denosyl  
Abnormal PE/Chem/CBC/UA Results: ALKP 360, ALT 124, B/C Ratio 41

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

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.

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 right kidney measured 4.49 cm. The left kidney measured 4.12 cm.

**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 1.68 x 0.52 cm at the caudal pole and 0.45 cm at the cranial pole. The right adrenal gland measured 1.56 x 0.51 cm at the caudal pole and 1.05 cm at the cranial pole.

**Spleen**

A 1.0 cm anechoic cyst was noted at the caudal pole of the spleen. The remainder of the spleen was unremarkable.

**Liver**

The **liver** revealed mildly increased portal markings with coarse architecture. The liver was normal in size. The common bile duct was unremarkable. This is a non-specific, inflammatory hepatopathy.

**Gastrointestinal**

The **gastrointestinal tract** revealed a full stomach. This is consistent with post prandial presentation. Transit of chyme into the small intestine appeared to be normal. There was no evidence of structural disease.



**PATIENT**

**Pancreas**

Lola Richman

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.

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**ULTRASONOGRAPHIC FINDINGS**

Havanese

Non-specific inflammatory hepatopathy with pancreatic remodeling.

**SEX**

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Spayed Female

Underlying antigen surveillance issues may be playing a role in this patient. FNA of the liver would be appropriate to assess inflammatory cell type. Empirical trial with Amoxicillin and Metronidazole over a 7-10 day period and hydrolyzed diet implementation over the next 4-6 weeks is recommended followed by reassessment of the liver values.

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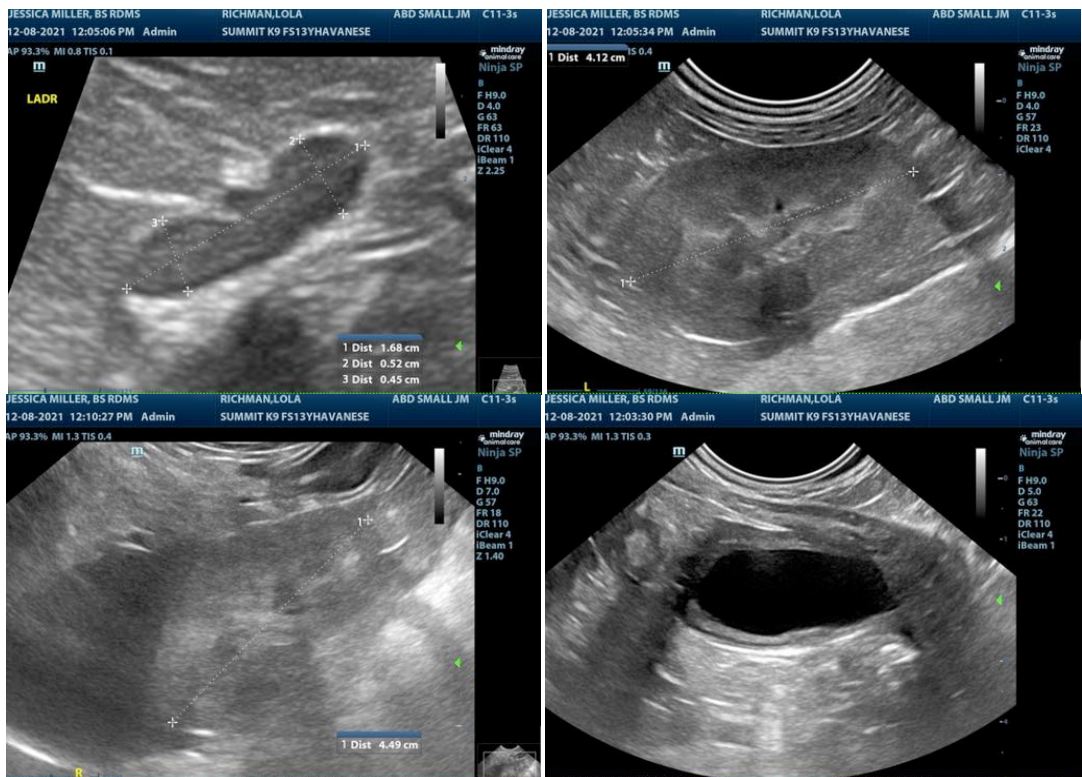
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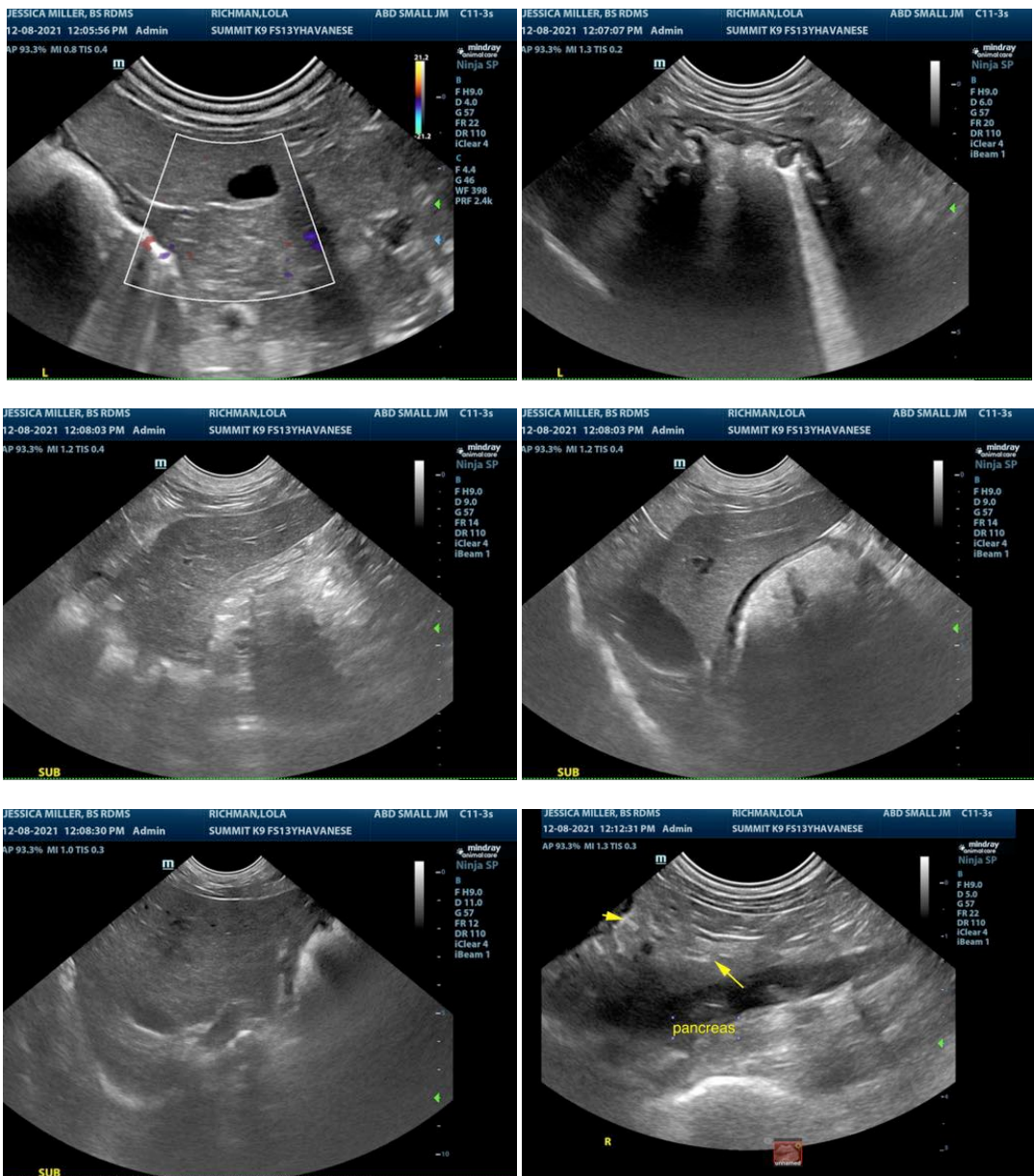
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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  
info@SonoPath.com