



**PATIENT**

Rosie Roper

**PRESENTING CLINICAL SIGNS**

Non clinical with persistent moderate elevation of liver enzymes  
Abnormal PE/Chem/CBC/UA Results: Persistent moderate elevation of liver enzymes

**SPECIES**

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

**BREED**

Bedlington Terrier

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.

**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 right kidney measured 4.38 cm. The left kidney measured 3.94 cm.

**AGE**

14 Years

**Adrenal Glands**

**WEIGHT**

8.4 kg

The **right adrenal gland** was enlarged, irregular and heterogeneous with a hyperechoic nodule measuring 1.5 cm x 1.3 cm at the cranial pole. Mineralization noted. The caudal pole measured 1.0 cm. Capsular expansion noted. The **left adrenal gland** measured 0.64 cm at the caudal pole and 0.39 cm at the cranial pole.

**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

**Spleen**

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. Hyperechoic lipogranulomatous changes noted. 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.

**IMAGING PERFORMED BY**

Dr. Belan

**Liver**

**HOSPITAL NAME**

Healing Tradition AC

The **liver** presented fairly uniform vacuolar hepatopathy pattern with minor heterogeneous parenchymal changes. Slight increased portal markings noted. The gallbladder presented polypoid changes with dependent debris, not overtly pathological.

**REFERRING VET**

Dr. Vockeroth

**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.

**INVOICE**

39176

**Pancreas**

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

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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.

**PRIMARY FINDINGS**

- Mineralized, enlarged right adrenal gland – appears resectable.

**SPECIES**

Canine

**SECONDARY FINDINGS**

- Benign chronic hepatopathy
- Age related renal changes
- Age related splenic changes
- Age related pancreatic changes

**BREED**

Bedlington Terrier

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**SEX**

Spayed Female

Adenoma, hyperplasia, pheochromocytoma, adenocarcinoma possible. Blood pressures warranted. Recommend right adrenalectomy and liver biopsy indicated after blood pressures and full adrenal workup. If hypertension is present, assessment for urine catecholamine warranted. No overt caval invasion noted.

**AGE**

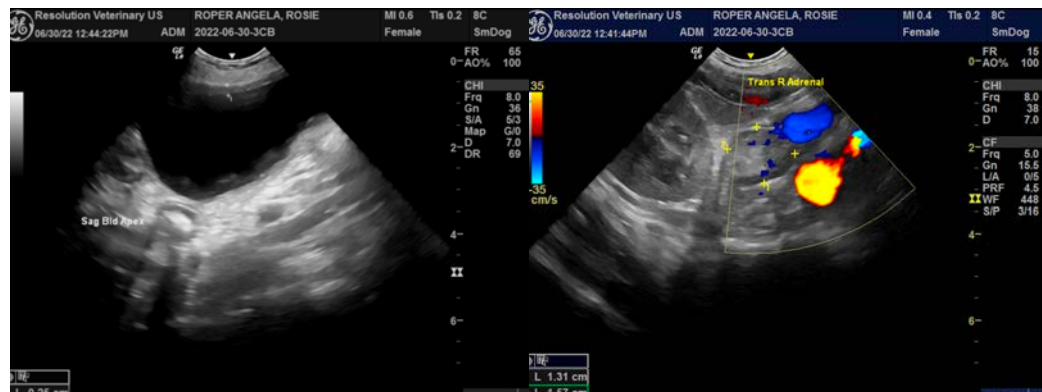
14 Years

**WEIGHT**

8.4 kg

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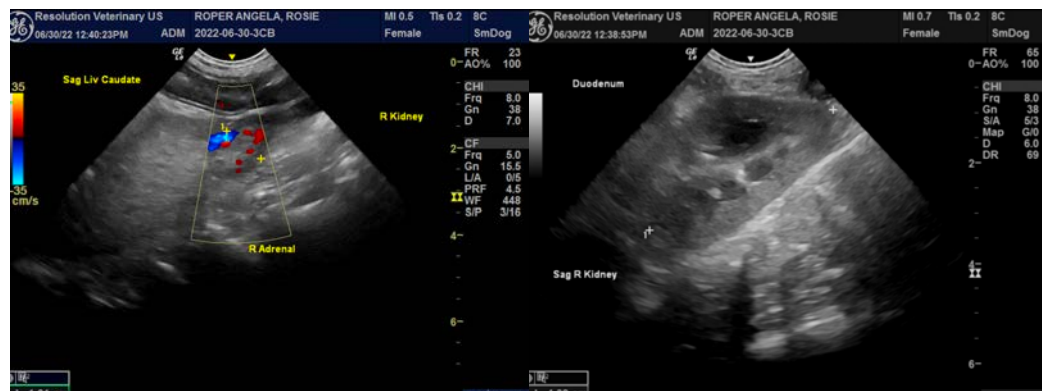


**IMAGING PERFORMED BY**

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**HOSPITAL NAME**

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**SPECIES**

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**BREED**

Bedlington Terrier

**SEX**

Spayed Female

**AGE**

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**WEIGHT**

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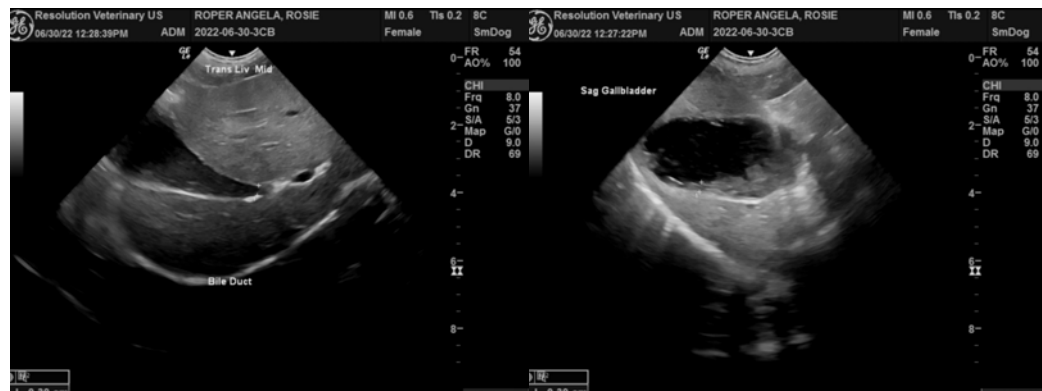
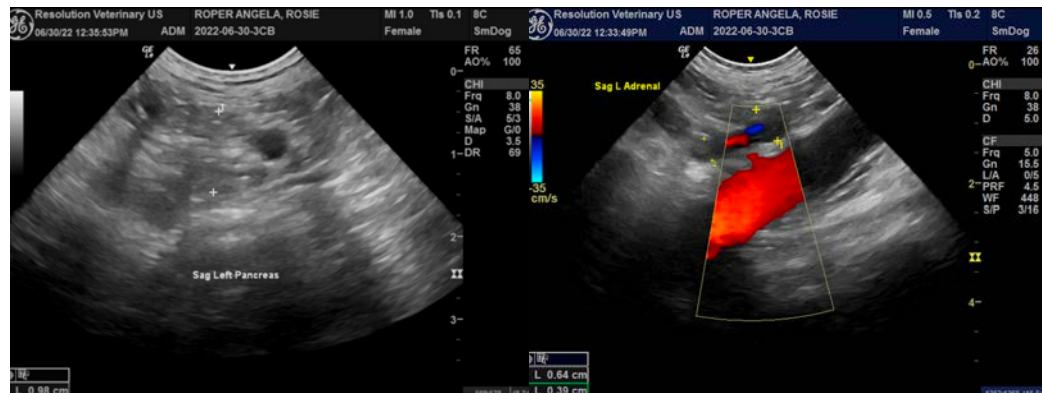
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

**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.

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

[info@SonoPath.com](mailto:info@SonoPath.com)

**BREED**

Beddington Terrier

**SEX**

Spayed Female

**AGE**

14 Years

**WEIGHT**

8.4 kg

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