



## PATIENT

Ivy Roen

## SPECIES

Canine

## BREED

Shorthair Pointer

## SEX

Spayed female

## AGE

2 years

## WEIGHT

42.2 lbs

## INTERPRETED BY

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

## IMAGING PERFORMED BY

Cassie Quillen DVM

## HOSPITAL NAME

Zumbrota VC

## REFERRING VET

Dr. Quillen

## INVOICE

69341

## DATE

12/16/25

## PRESENTING CLINICAL SIGNS

History: Presented to rDVM for follow up on chronically elevated liver enzymes. Owner reports previous blood work was normal and she remains asymptomatic with no known toxin exposure. Treated 2/24/25 with Clavamox x 2 weeks and Denamarin x 1 month with mild improvement in values. UTD on Rabies, DAPP, Lepto, Lyme, Bordetella

Abnormal PE/Chem/CBC/UA Results: 2/24/25: PE: unremarkable CBC: wnl Chem: alkph high 297 (23-212), ALT high 1,728 (10-125), BUN high 31 (7-274) rest wnl 4dx: negative x 4 Fecal: pos for eimeria, otherwise negative 3/24/25 PE: unremarkable CBC: wnl Chem: alkph high 277, ALT high 911 rest wnl Lytes: Na high 161 (144-160), rest wnl 4/24/25 Chem: alkph high 317, ALT high 886, GGT high 14 (0-11) 12/3/25 PE: unremarkable CBC: wnl Chem: alkph high 488, ALT high 1,648, GGT high 20 Lytes: wnl Bile acids: Pre 39.1; post >180 4dx: negative x 4

## 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 normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The left kidney measured 5.39 cm. The right kidney measured 5.76 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 0.43 cm. The right adrenal gland measured 0.39 cm.

### Spleen

The **spleen** revealed mild, uniform enlargement and was folded upon itself cranially and caudally.

### Liver

The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. There was no evidence of portosystemic shunting. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common



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bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.

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**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.

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**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.

**AGE**

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**WEIGHT**

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**ULTRASONOGRAPHIC FINDINGS**

Structurally normal abdomen.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

Acute hepatic insult such as Leptospirosis should be considered in this patient.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Hepatic FNA is indicated. Leptospirosis titers, IV Ampicillin and supportive care as well as nutraceuticals are all indicated.

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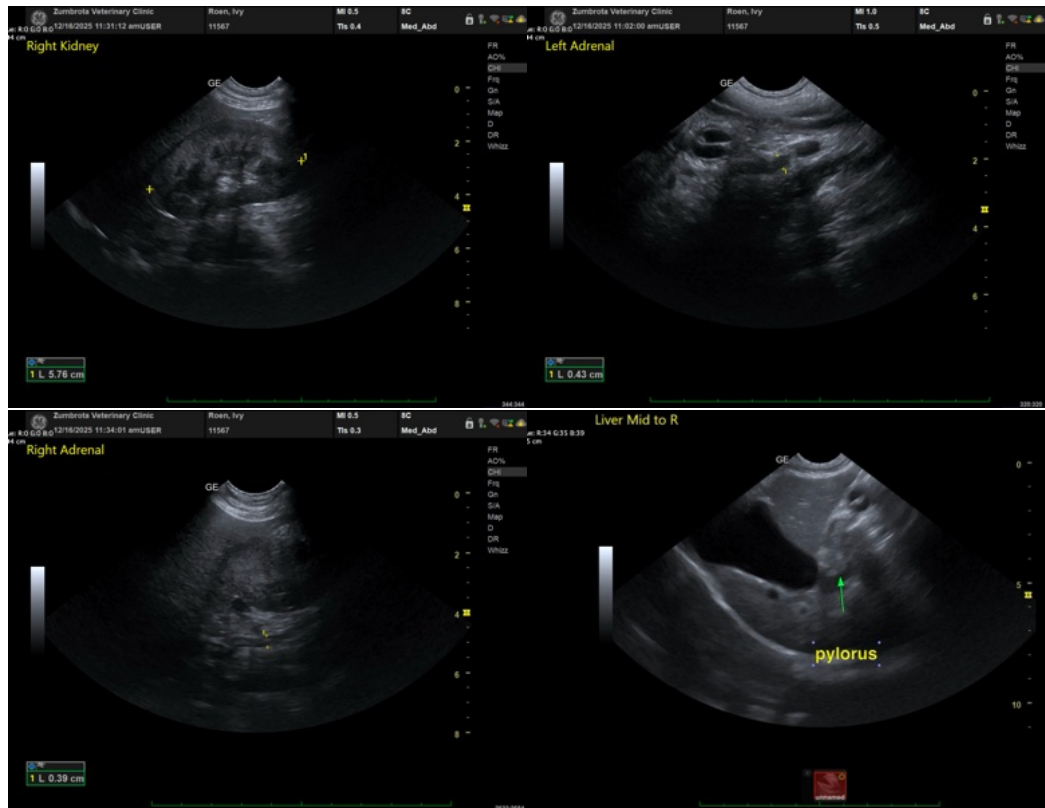
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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 (CFM), Cert. IVUSS, CEO of SonoPath.com

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