



PATIENT

Biscuit Bullen

SPECIES

Canine

BREED

Jindo

SEX

Female

AGE

9.5 Years

WEIGHT

33.9 Pounds

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Heidi Schultz

HOSPITAL NAME

Marina Village Vet & Integrative Care

REFERRING VET

Dr. Heidi Schultz

INVOICE

46001

DATE

3/16/23

PRESENTING CLINICAL SIGNS

Patient came in for a wellness visit 1 month ago and had moderate dental disease, so a COHAT was performed. Due to patient's temperament, bloodwork was run the morning of surgery. Patient had a mixed hepatopathy present (ALT 833, ALP 630) and GGT was 11 (high normal). Other labwork was unremarkable (no inflammatory leukogram, etc). Liver values checked 1 week later and they were persistently elevated so ultrasound was recommended. P has generally been doing fine at home, does not seem clinical but can be picky with her food.

Abnormal PE/Chem/CBC/UA Results: 2/28 - ALT 833, ALP 630 3/8 - ALT 833, ALP 754

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

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 5.15 cm. The right kidney measured 5.3 cm.

Adrenal Glands

The **left 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 left adrenal gland measured 0.50 cm.

The **right adrenal gland** was not visualized.

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 were noted.

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. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.

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. Minor excessive upper GI gas



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noted. 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.

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Jindo

ULTRASONOGRAPHIC FINDINGS

SEX

- Structurally unremarkable abdomen, subacute inflammatory hepatopathy

Female

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

AGE

9.5 Years

FNA of the liver indicated. Leptospirosis titers indicated.

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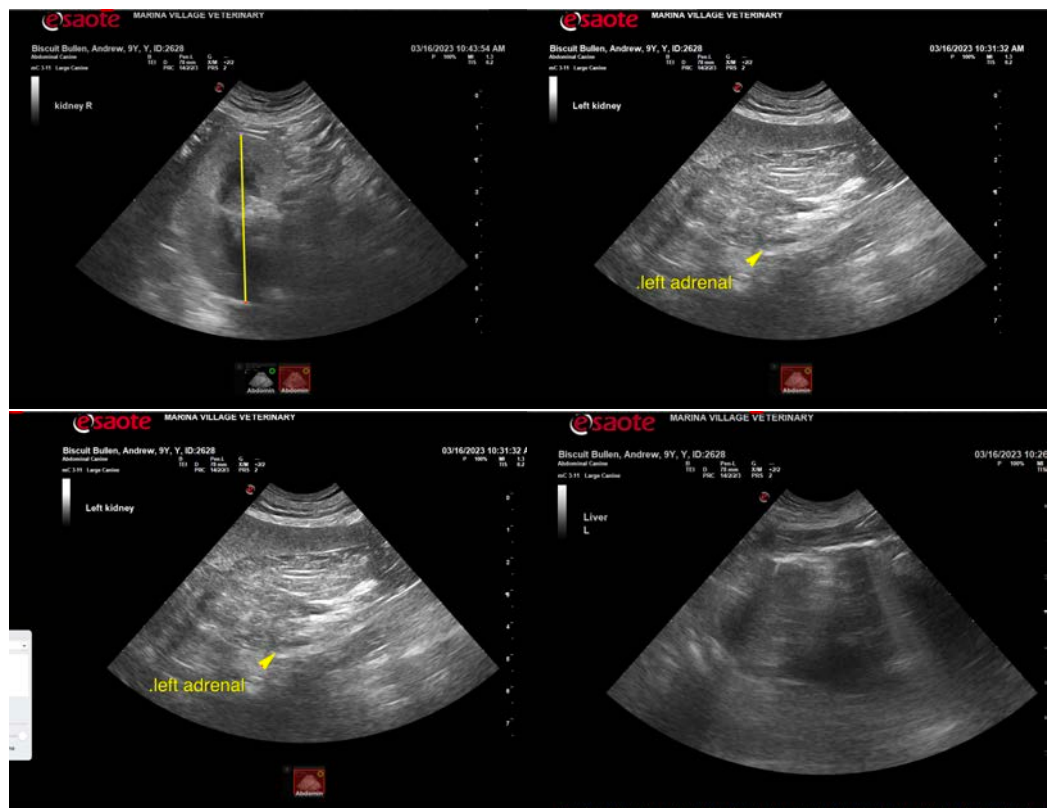
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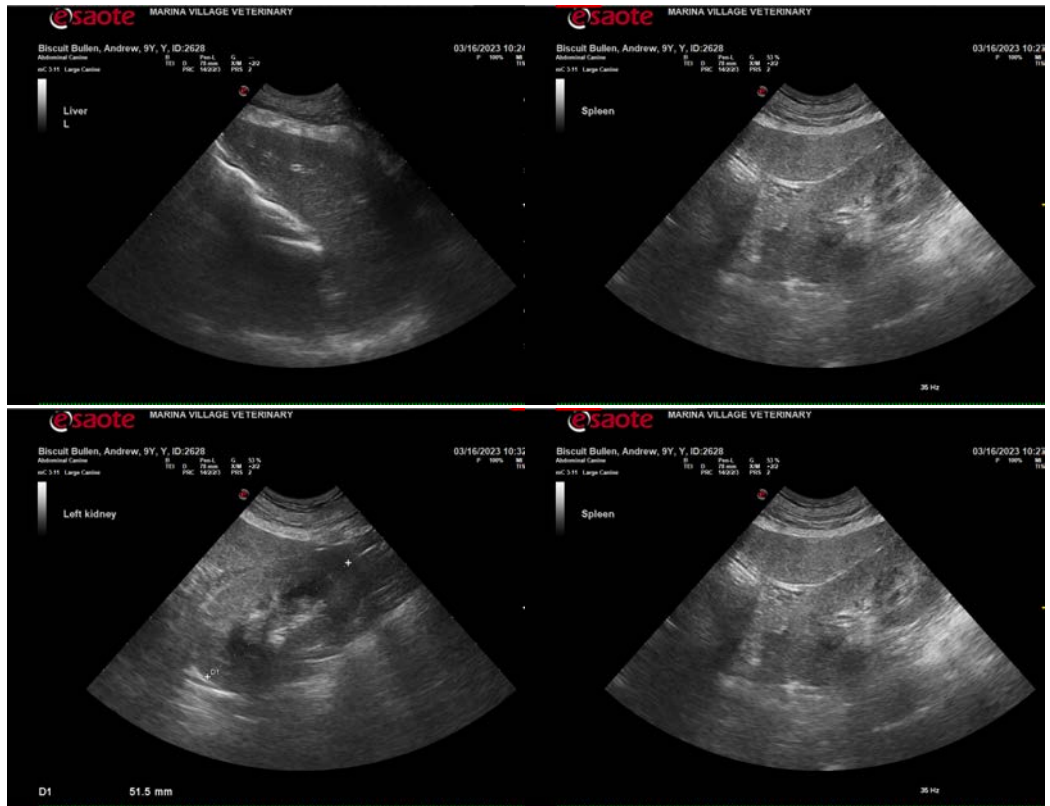
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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