



PATIENT

Avery Leinweber

PRESENTING CLINICAL SIGNS

History: Vomiting lethargic. On Trazadone gabapentin and detomidine for scan
Abnormal PE/Chem/CBC/UA Results: Mod elevation of liver enzymes

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

Shepherd Labrador
Cross

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.

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 this age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. Slight mineralization was noted in the kidneys. The left kidney measured 6.62 cm. The right kidney measured 5.82 cm.

AGE

9 years

WEIGHT

21 kg

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 0.62 cm at the caudal pole and 0.54 cm at the cranial pole. The right adrenal gland measured 0.67 cm at the cranial pole and 0.58 cm at the caudal pole.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUS

IMAGING PERFORMED BY

Dr. Belan

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. 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 was noted.

HOSPITAL NAME

Healthy Paws
Forward AH

REFERRING VET

Dr. Luis

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 was over distended with dependent and suspended debris. The common bile duct revealed a 0.85 cm calculus at the junction of the proximal common bile duct just after the cystic duct.

INVOICE

97890

DATE

3/29/22



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Gastrointestinal

Avery Leinweber

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.

SPECIES

Canine

Pancreas

The **pancreas** revealed minor, hyperechoic changes. This is consistent with remodeling.

BREED

Shepherd Labrador Cross

SEX

Spayed Female

ULTRASONOGRAPHIC FINDINGS

Mucoduct/biliary calculus, post hepatic obstruction pattern. Cholangitis and cholangiohepatitis pattern with mucoduct and biliary sand. Mild, post hepatic obstruction.

AGE

9 years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Surgical intervention with cholecystectomy and common bile duct lavage is recommended. Ursodiol therapy can be considered with supportive care. Some level of pancreatitis can be present.

WEIGHT

21 kg

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Healthy Paws Forward AH

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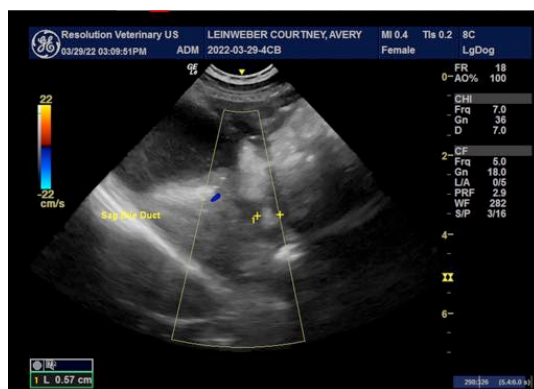
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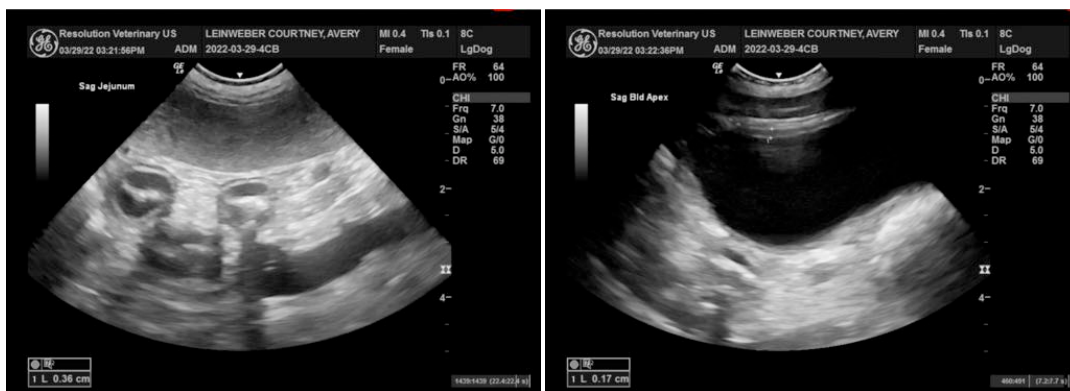
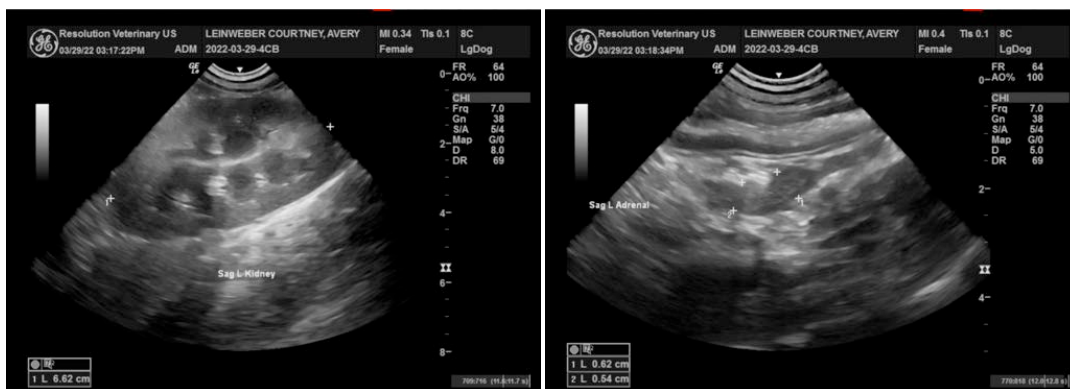
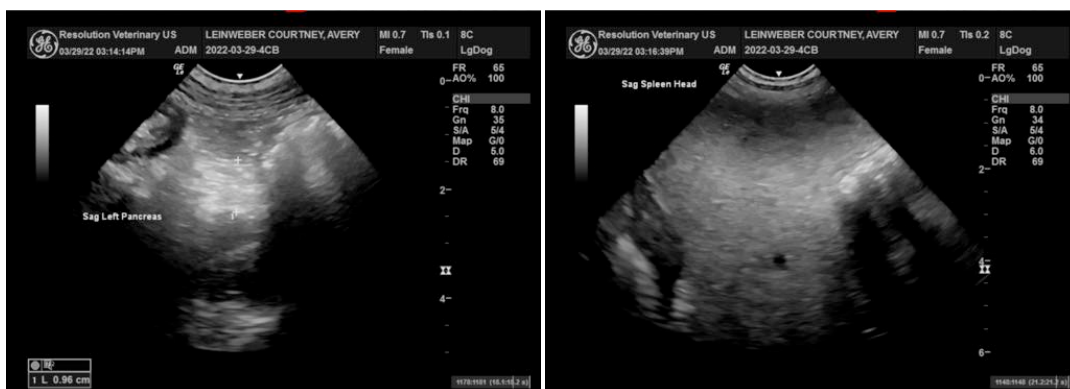
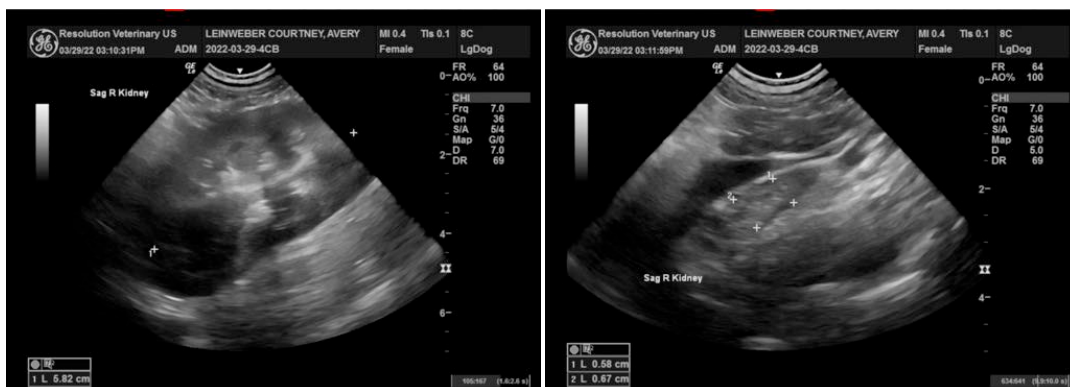
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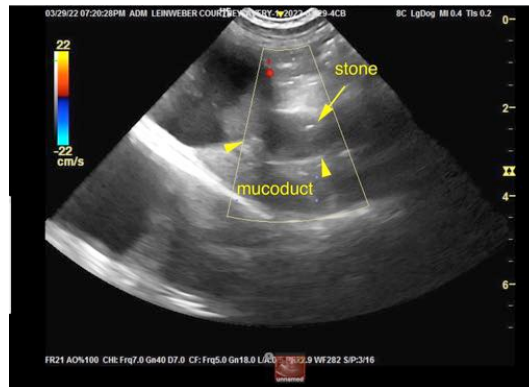
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FURTHER IMAGES PROVIDED

Further images evaluated confirming mucocyst measuring 1.7 cm wide with debris and biliary stones. Surgical intervention recommended.



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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