



PATIENT PRESENTING CLINICAL SIGNS

PATIENT
Gio Solano History: Patient with history of vomiting presents for suspicion of possible liver lesion.

Abnormal PE/Chem/CBC/UA Results: ALP 1136, T. bil (WNL) 0.3, BUN 91, creat. 1.6, glucose 113.

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine

Urinary System

BREED
Maltese 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
Neutered Male The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some moderate 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. Cortical cysts noted at the dorsal cranial cortex of the right kidney. The right kidney measured 4.28 cm. An anechoic cyst was noted at the dorsal cortex of the left kidney. The left kidney presented moderate degenerative renal changes. The left kidney measured 3.82 cm.

WEIGHT Adrenal Glands

10.8 Pounds 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 right adrenal gland measured 1.67 cm x 0.65 cm at the caudal pole and 0.53 cm at the cranial pole. The left adrenal gland measured 1.34 cm x 0.6 cm at the caudal pole and 0.37 cm at the cranial pole.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Spleen

IMAGING PERFORMED BY

Kelly Vazquez

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 were noted. Areas of mineralization noted.

HOSPITAL NAME

Animal Paradise H

Liver

REFERRING VET

Dr. Bravo

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Vascular and biliary tracts were of normal volume and no evidence of congestion was noted. The gallbladder presented approximately 80% non-mobile bile with striations and overdistention consistent with mucocele formation, however, I'm not 100% convinced that the mucocele is the sole cause of the clinical status. Dilated cystic duct noted. Mild inflammatory pattern noted with polypoid changes. The common bile duct was mildly dilated, measuring the upper limits of normal at 4.0 mm. Occasional parenchymal cysts noted in the liver as well.

INVOICE

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Gastrointestinal

DATE

9/20/21

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



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demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

Pancreas

SPECIES

Canine

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Some mild 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 subxyphoid palpation then low-grade smoldering chronic pancreatitis should be suspected.

BREED

Maltese

ULTRASONOGRAPHIC FINDINGS

SEX

Neutered Male

- Immature gallbladder mucocele with hepatic remodeling and polyps
- Chronic renal changes
- Structurally insignificant GI tract
- Pancreatic remodeling

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

AGE

13 Years

Treatment for acute hepatitis warranted as well as stabilization and eventual cholecystectomy. I recommend 48–72-hour IV fluid protocol, GI protectant protocol and ursodiol over the next 6-8 weeks. Gallbladder motility study would be ideal to assess gallbladder function as to whether cholecystectomy would be necessary in this patient. Chronic IV fluid support with correction of azotemia indicated. Monitoring of the gallbladder with gallbladder motility study as well as liver enzyme pattern over the next week to 2 weeks would be indicated.

WEIGHT

10.8 Pounds

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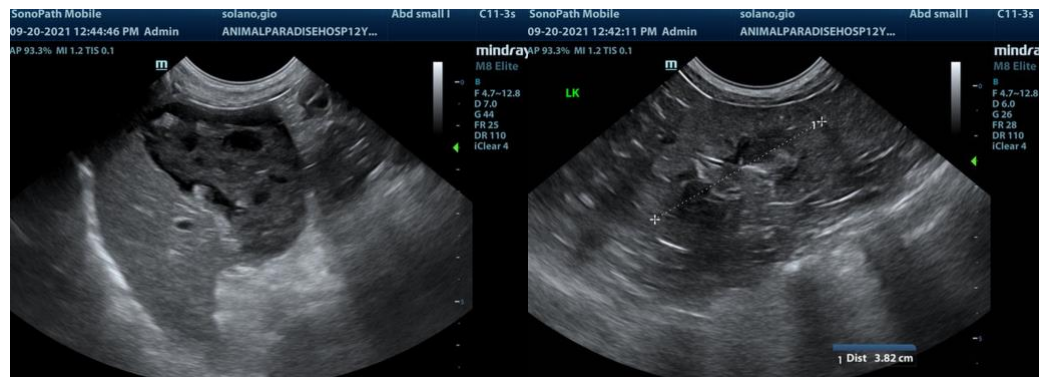
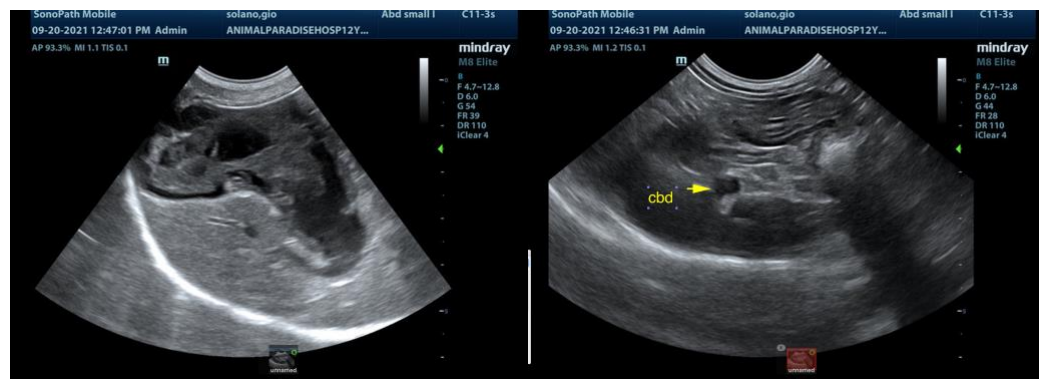
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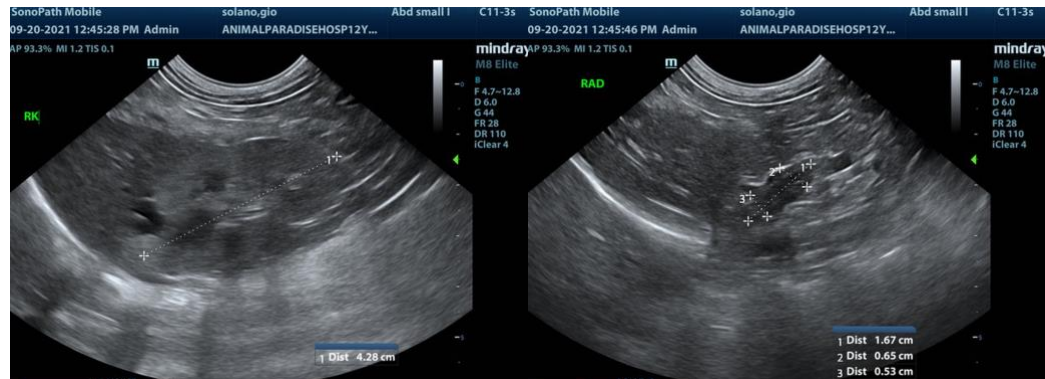
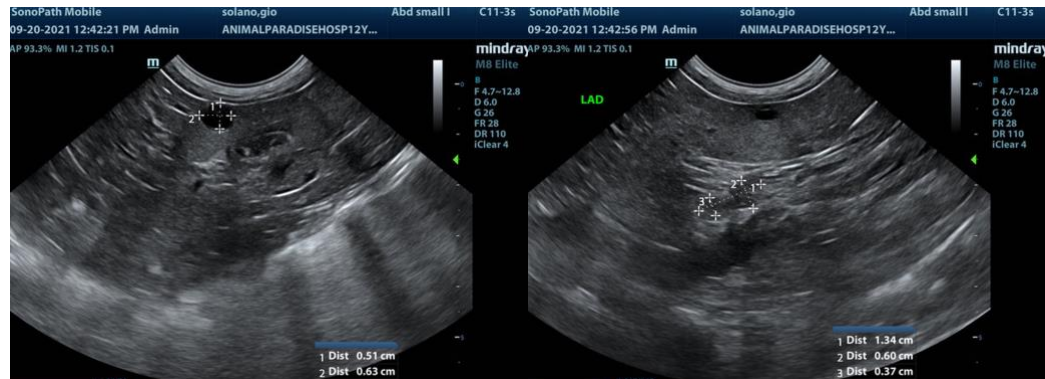
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.



PATIENT

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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.

SPECIES

Canine

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BREED

Maltese

SEX

Neutered Male

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