



PATIENT

PRESENTING CLINICAL SIGNS

Max Piekatz

Elevated ALP 2398, ALT 194, UCCR 18, proteinuria.

SPECIES

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine

Urinary System

BREED

Pomeranian

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

Neutered male

The residual prostate measured 0.7 cm.

AGE

14 years

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. Idiopathic, hyperechoic medullary rim sign was noted. 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 4.8 cm.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Adrenal Glands

The left adrenal gland was at the upper limits of normal to slightly enlarged and uniform. The left adrenal gland measured 2.34 x 0.92 cm at the caudal pole and 0.74 cm at the cranial pole. The left adrenal gland revealed minor, echogenic remodeling. The right adrenal gland was at the upper limits of normal and measured 1.9 x 0.26 cm at the cranial pole and 0.67 cm at the caudal pole.

IMAGING PERFORMED BY

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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.

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Liver

The **liver** was uniformly swollen with minor, excessive gallbladder debris and over distension with dependent and suspended bile without evidence of overt mucocele formation. However, excessive sludge was present. A 1.0 cm anechoic cyst was noted in the left cranial liver and is subjectively benign. The liver presented coarse architecture with mildly increased portal markings and subtle, mixed echogenic changes. This is consistent with vacuolar hepatopathy and some level of remodeling and history of inflammatory component. There was no overt suspicion of neoplasia.

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Gastrointestinal

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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

BREED

Pomeranian

The left limb of the **pancreas** was unremarkable. The right limb revealed mixed, hyperechoic remodeling. This is consistent with fibrosis or possible amyloid secondary to history of pancreatitis.

SEX

Neutered male

ULTRASONOGRAPHIC FINDINGS

Benign hepatopathy with remodeling and benign cysts.

AGE

14 years

Pancreatic remodeling particularly in the right pancreas.

Prominent adrenal glands with heterogenous parenchymal changes.

Medullary rim kidneys.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Assessment for potential emerging diabetic state or proteinuria should be considered. There was no evidence of neoplasia. The abdomen appears stable for this patient. However, adrenal disease should be monitored.

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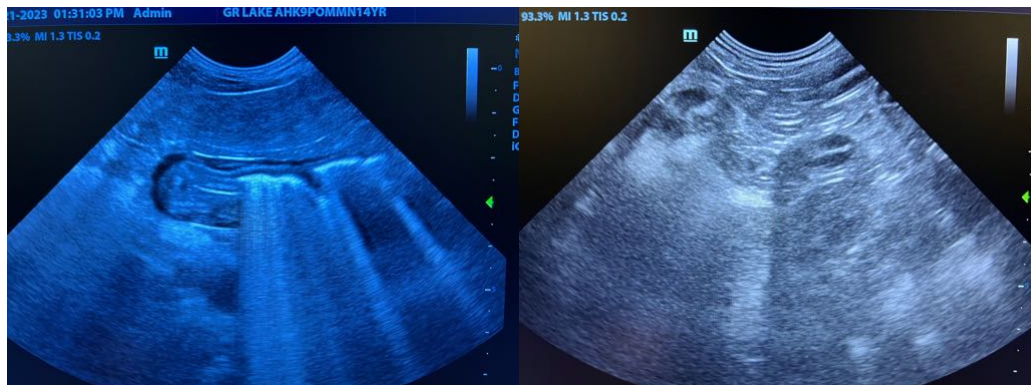
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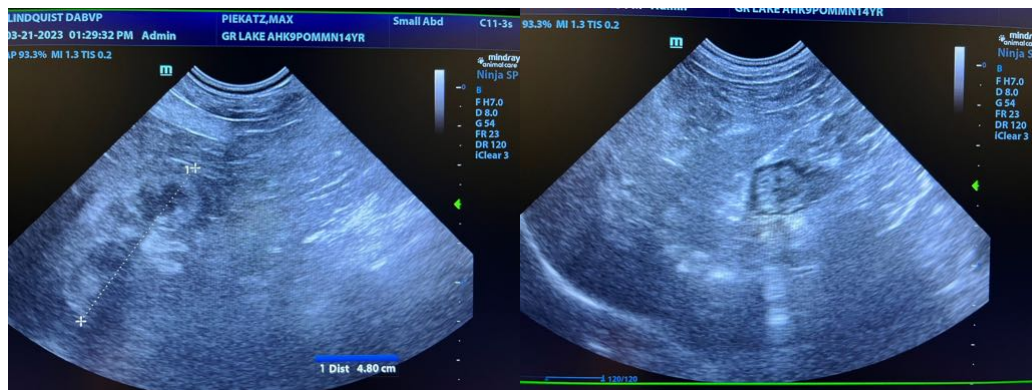
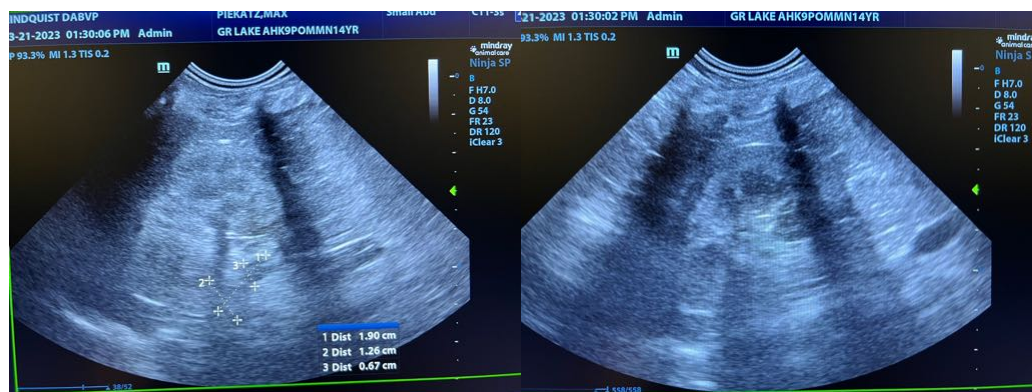
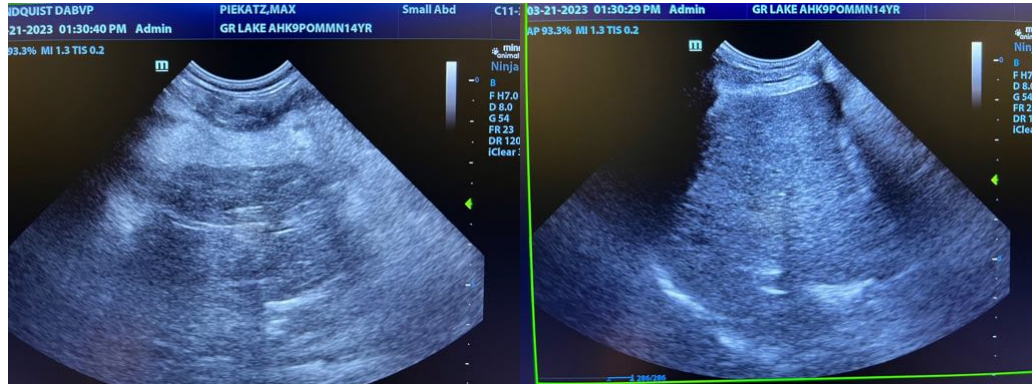
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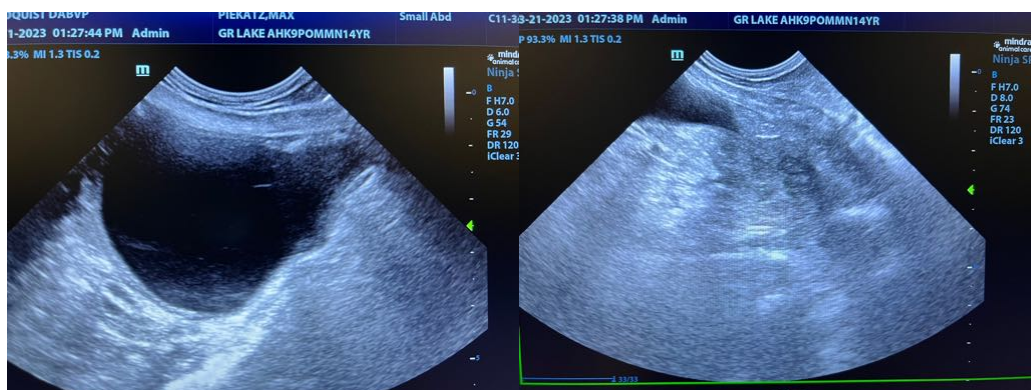
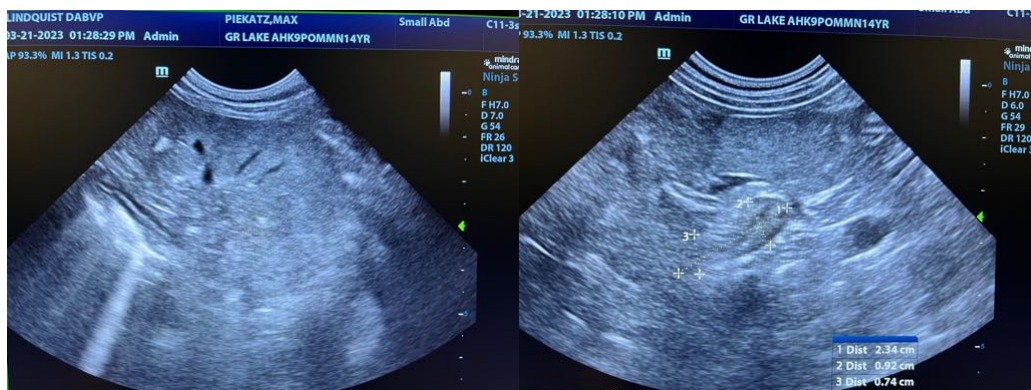
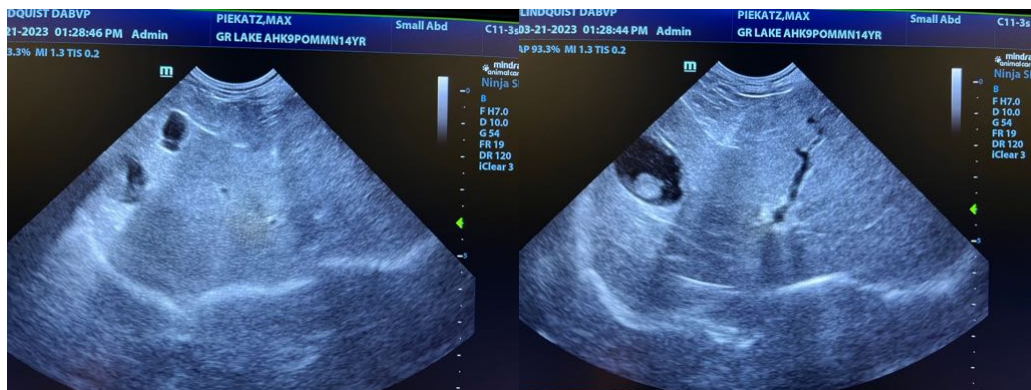
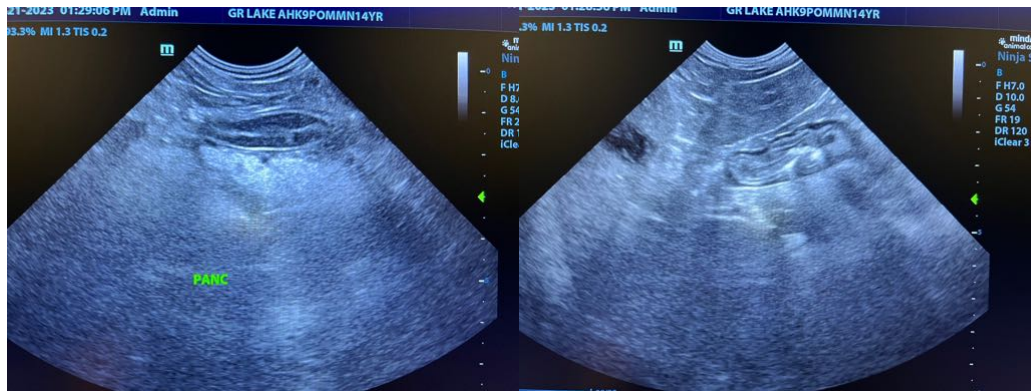
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

BREED

Pomeranian

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SEX

Neutered male

AGE

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