



PATIENT PRESENTING CLINICAL SIGNS

Max Lauri History: 1 year recheck Cardiac + monitor Adrenal Mass. Current meds: Galliprant, Vetmedin 2.5mg BID

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

Shih Tzu

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

The residual prostate measured 0.5 cm.

Neutered male

AGE

13 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. 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 4.96 cm. The left kidney measured 4.56 cm.

WEIGHT

21 lbs

Adrenal Glands

A right **adrenal** mass was noted and measured 3.88 x 2.6 cm. The mass was nodular and irregular. The right adrenal mass appeared peripherally inflamed. The mass impinges upon the vena cava, yet no evident invasion was noted. This appears resectable; however, some peripheral inflammation was present. The left adrenal gland was normal in size and contour measuring 1.86 x 0.4 cm at the caudal pole and 0.33 cm at the cranial pole.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jessica Miller, RDMS

HOSPITAL NAME

Marsh AH

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 was noted.

REFERRING VET

Dr. Milwicki

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. 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.

INVOICE

43856

DATE

4/12/23



PATIENT *Gastrointestinal*

Max Lauri 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

BREED

Shih Tzu

SEX

Neutered male

Pancreas

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

AGE

13 years

ULTRASONOGRAPHIC FINDINGS

Right adrenal mass.

WEIGHT

21 lbs

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The right adrenal mass has now increased in size and is peripherally inflamed. I strongly recommend surgical removal. This may still be adenoma or myelipoma; however, pheochromocytoma and adenocarcinoma are potentials. CT evaluation of the abdomen and chest would be ideal for metastatic disease and surgical planning. However, from a sonographic perspective there was no evidence of caval invasion present and there was some peripheral inflammation associated with the right adrenal gland capsule. Although this is minor, it does suggest a progressively, expansive process.

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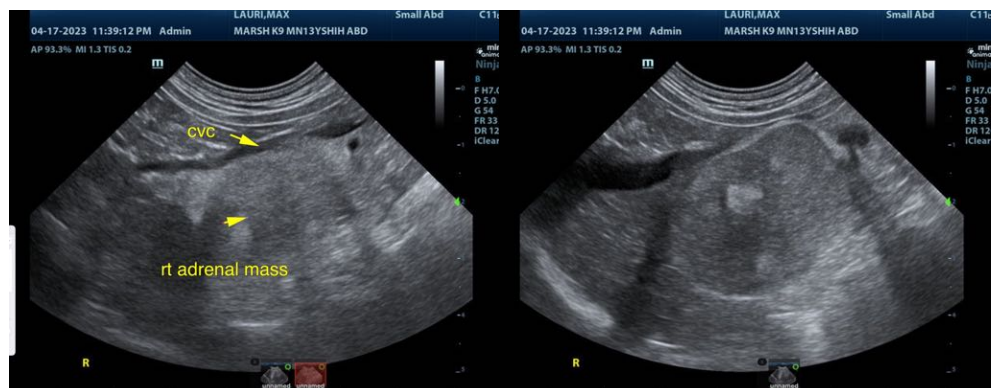
Dr. Milwicki

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PATIENT

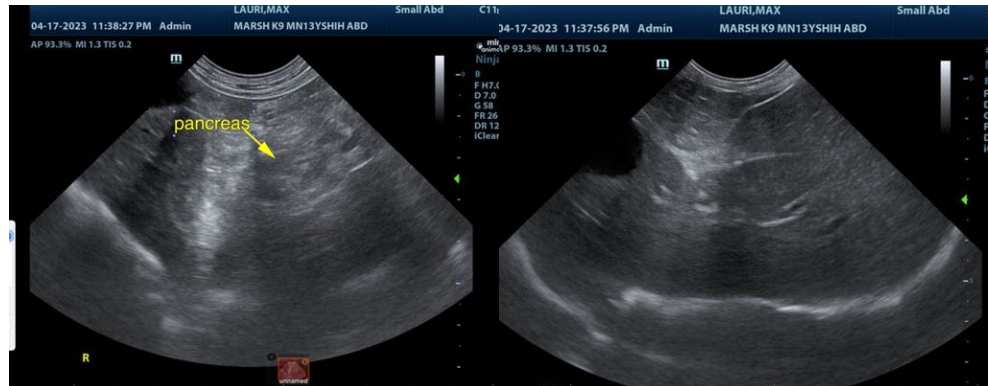
Max Lauri

SPECIES

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SEX

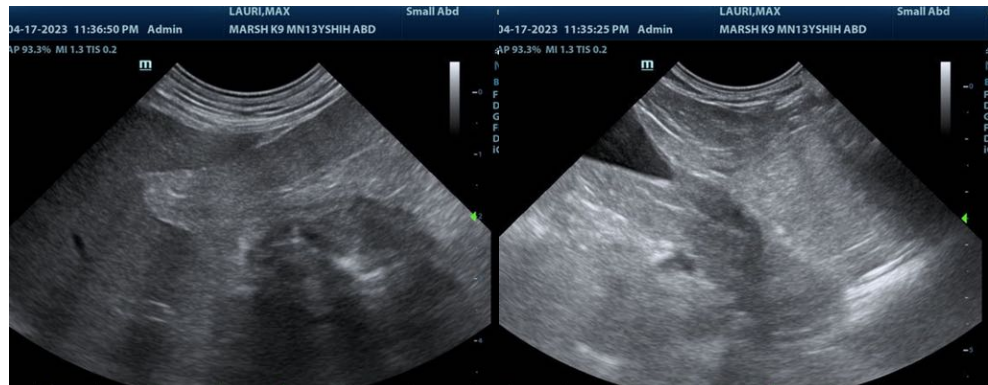
Neutered male

AGE

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WEIGHT

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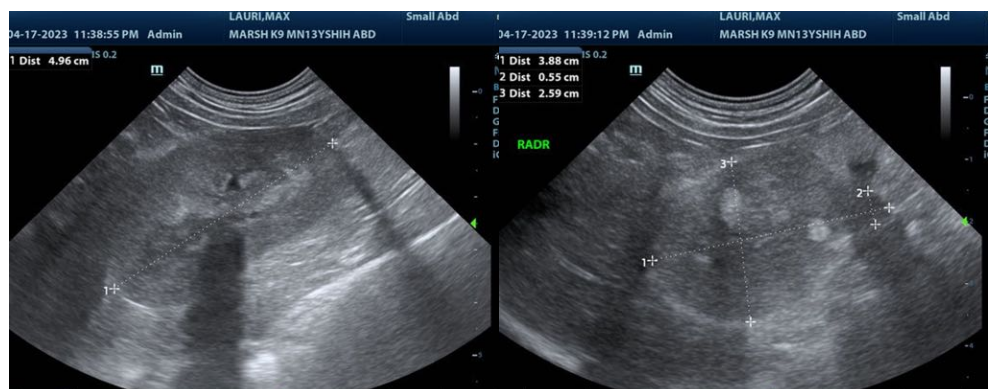
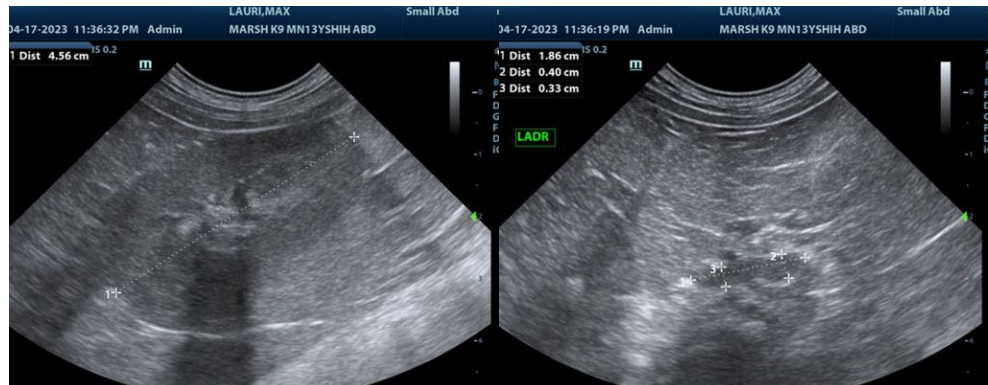
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PATIENT

Max Lauri

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

Shih Tzu

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com
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SEX

Neutered male

AGE

13 years

WEIGHT

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