



PATIENT

Jake Hicks

SPECIES

Canine

BREED

Mini Australian Shepherd

SEX

Neutered male

AGE

15 years

WEIGHT

15.4 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Emily Kalenius

HOSPITAL NAME

Willamette VH

REFERRING VET

Emily Kalenius

INVOICE

30314

DATE

5/12/22

PRESENTING CLINICAL SIGNS

Elevated liver enzymes, pancreatic enzymes, dehydration, anorexia, abdominal pain, fever
Abnormal PE/Chem/CBC/UA Results: EPOC = HCT 44%, pCO2 25.6, BE -8.7, (lytes LAC and renal values wnl) ALT (dilution) = 881 u/l

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 was noted. Ureteral papillae were normal.

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. The right kidney measured 4.93 cm. The left kidney measured 4.7 cm.

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 right adrenal gland measured 1.69 x 0.57 cm at the caudal pole and 0.56 cm at the cranial pole. The left adrenal gland measured 2.25 x 0.62 cm at the caudal pole and 0.4 cm at the cranial pole.

Spleen

The **spleen** was folded upon itself and was uniform with no evidence of pathology. This is a positional variant.

Liver

The **liver** revealed increased portal markings and mild irregular contour. Variable areas of hypoechoic parenchymal changes were noted. The gallbladder was double layered and edematous without overt obstruction.

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. 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.

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Pancreas

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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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ULTRASONOGRAPHIC FINDINGS

SEX

Swollen irregular liver with cholangitis pattern. Potential emerging round cell neoplasia.

Neutered male

Otherwise, unremarkable abdomen.

AGE

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

15 years

Hepatic FNA is recommended.

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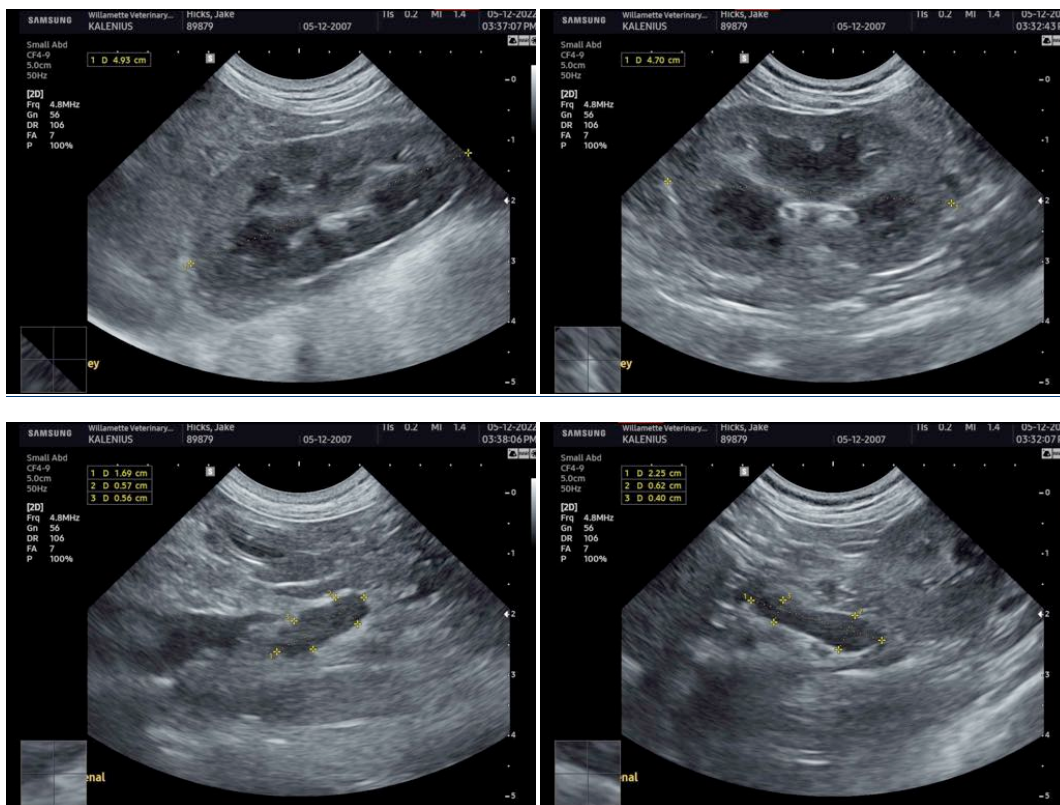
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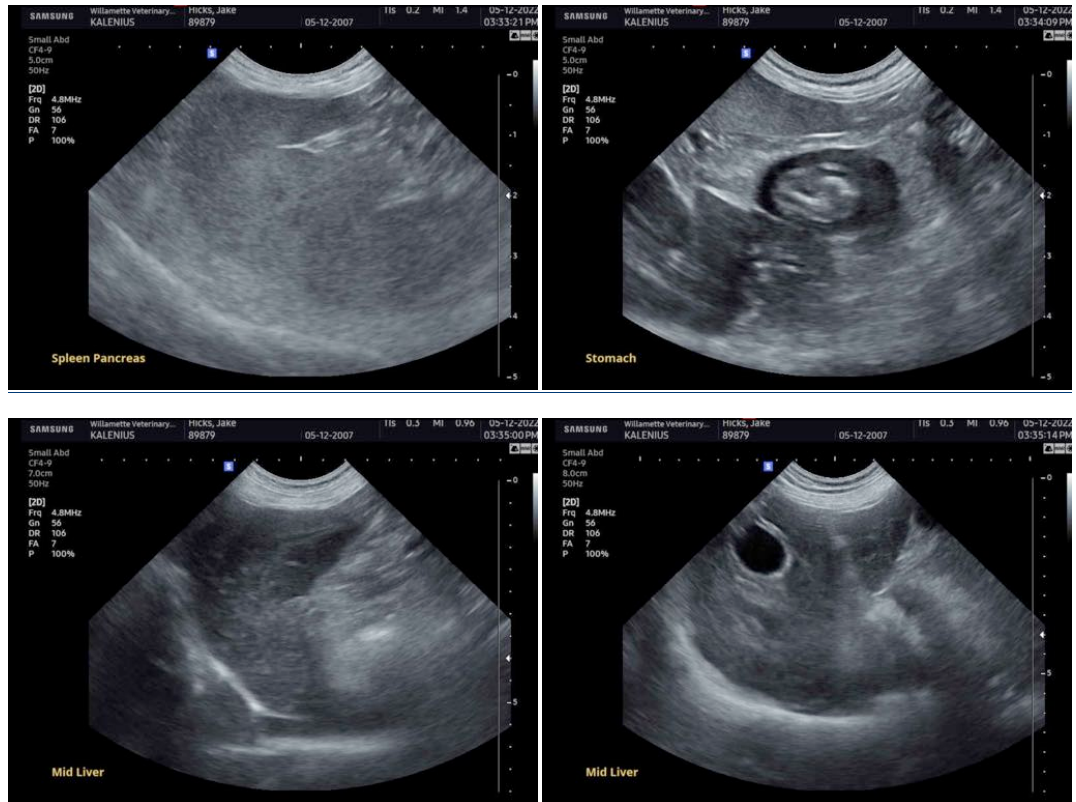
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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