



PATIENT PRESENTING CLINICAL SIGNS

Storm Kayte History: Patient presents for elevated liver enzymes on routine blood work. Current meds: Denamarin.

SPECIES Abnormal PE/Chem/CBC/UA Results: ALT 147, ALP 408, T. bili 0.4.

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED *Urinary System*

Pit Bull 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

AGE

9 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 this age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. The right kidney measured 5.66 cm. The left kidney measured 5.75 cm with trace pyelectasia.

WEIGHT

Adrenal Glands

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

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 2.04 x 0.7 cm at the caudal pole and 0.67 cm at the cranial pole. The left adrenal gland measured 2.16 x 0.51 cm at the caudal pole and 0.58 cm at the cranial pole.

IMAGING PERFORMED BY

Kelly Vazquez, CVT

Spleen

HOSPITAL NAME

The Venturing Vet

The **spleen** revealed hypoechoic, mildly expansive 2.26 cm nodule at the mid cranial body. Subtle heterogenous splenic changes were noted. This is likely hyperplasia.

REFERRING VET

Dr. Herzog

Liver

INVOICE

94283

DATE

12/2/21

Exam of the cranial abdomen demonstrated excessive **liver** size and swollen contour. Mild, coarse architecture was noted with increased portal markings and minor parenchymal remodeling is suggestive of an inflammatory component. Minor excessive GB debris was noted with the presence gall bladder dilation and precipitate without the overt formation of mucocele but this may be an issue in the future. This type of liver presentation typically is associated with slow and gradual SAP elevations with low-grade ALT rise. USG-FNA sampling is encouraged if more aggressive LE profiles are present such as ALT > 200 or rapid rise in SAP. These presentations are usually reactive hepatopathies owing to other disease processes either endocrine (Diabetes, Hypothyroidism, Cushing's disease), "antigen surveillance" from the gut/pancreas, or idiopathic breed predisposed progressions.



PATIENT *Gastrointestinal*

Storm Kayte 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

Pit Bull

SEX

Spayed Female

AGE

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Pancreas

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.

ULTRASONOGRAPHIC FINDINGS

Subjectively benign vacuolar hepatopathy liver pattern.

Age related renal changes.

Subtle heterogenous splenic changes were noted, likely hyperplasia.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

FNA of the spleen and liver would be ideal; however, subjectively they appear benign. The spleen should be monitored in a month for any progression. There is no contraindication to anesthetic procedure if necessary.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

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HOSPITAL NAME

The Venturing Vet

REFERRING VET

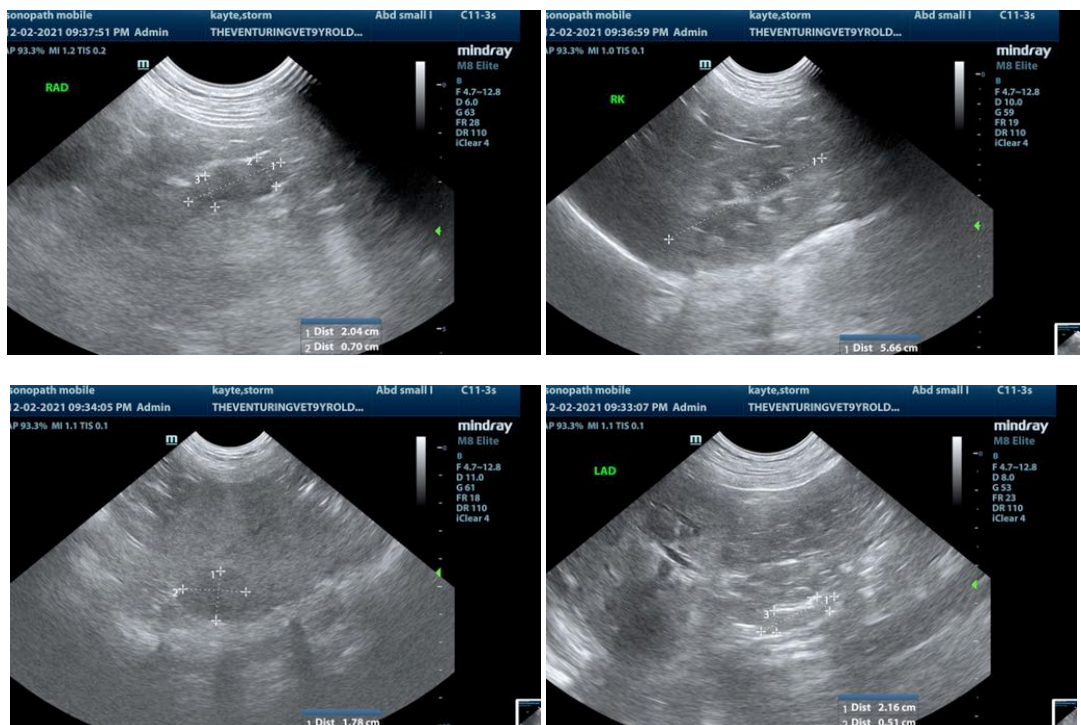
Dr. Herzog

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PATIENT

Storm Kayte

SPECIES

Canine

BREED

Pit Bull

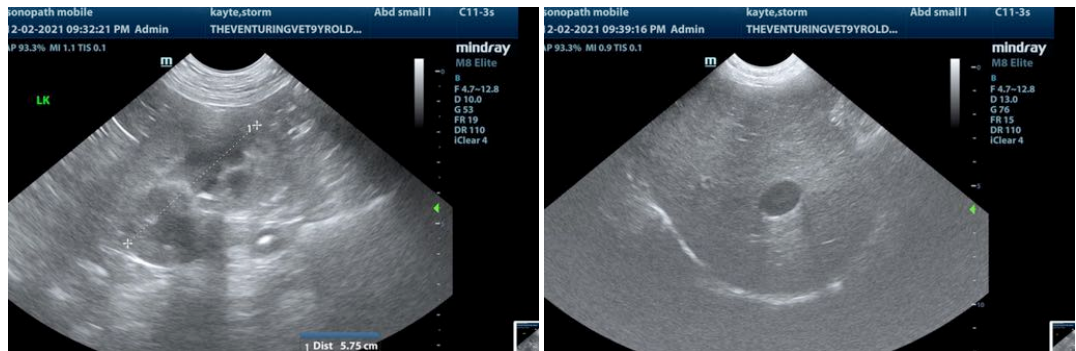
SEX

Spayed Female

AGE

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WEIGHT



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.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

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
info@SonoPath.com

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