

PATIENT PRESENTING CLINICAL SIGNS

Bodhi Nakayama

History: P has history of intermittent vomiting. An ultrasound was done in 2021, and P has been on a novel protein diet (Instinct Raw Rabbit) with not much improvement. P is also on Provable probiotic first 7 days of each month, 1-TDC 3 times a week and Dasuquin

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: Last BW done Nov 2021 as pre-dental BW ,CBC - Wnl except platelets 464K suspect reactive thrombocytosis secondary to inflammation; Chemistry profile - Superchem: wnl; Heartworm test - Neg; Thyroid hormones - TT4 - 1.2 (0.8-3.50; Urinalysis - Plan to collect at time of dental USG from small sample yesterday = 1.046; O&P / OP&G - Centrifuge: nps Giardia ELISA- negative

BREED

Shih Tzu

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

SEX

Neutered male

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.

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 this age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. The left kidney measured 4.39 cm. The right kidney measured 4.75 cm.

WEIGHT

19.6 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

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 0.95 cm at the cranial pole and 0.68 cm at the caudal pole. The left adrenal gland measured 0.58 cm at the caudal pole and 0.57 cm at the cranial pole.

IMAGING PERFORMED BY

Carly Pate

HOSPITAL NAME

VCA McKenzie 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. Frickle

INVOICE

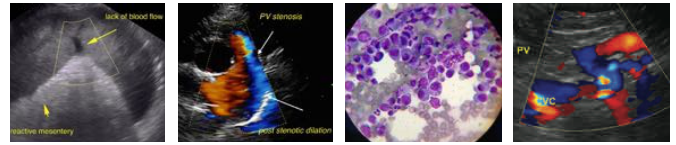
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Liver

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-

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3/10/22



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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.

SPECIES

Canine

Gastrointestinal

BREED

Shih Tzu

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.

SEX

Neutered male

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.

AGE

13 years

ULTRASONOGRAPHIC FINDINGS

WEIGHT

19.6 lbs

Benign hepatopathy.

Age related renal changes.

INTERPRETED BY

Eric Lindquist, DMV
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Otherwise, unremarkable abdomen.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There was no residual pathology compared to the prior sonogram.

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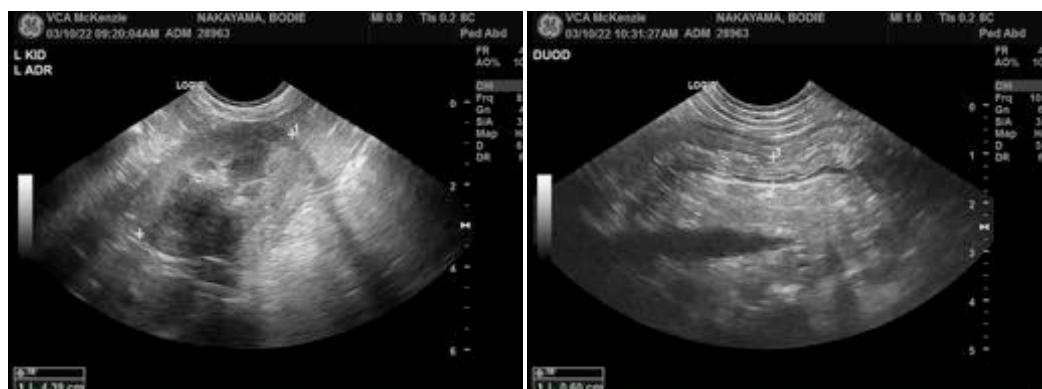
Dr. Frickle

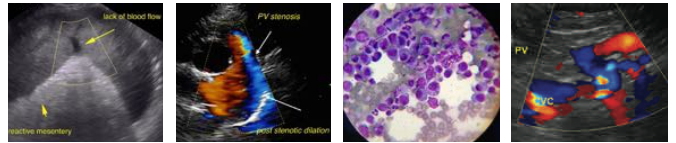
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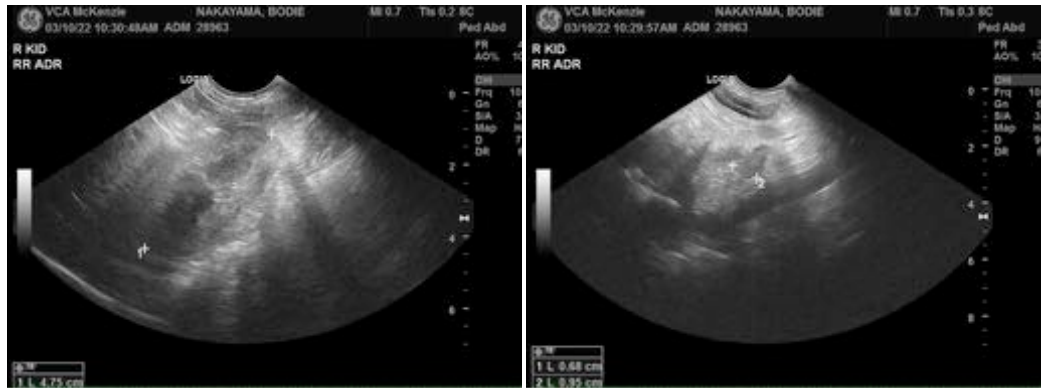
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SPECIES

Canine

BREED

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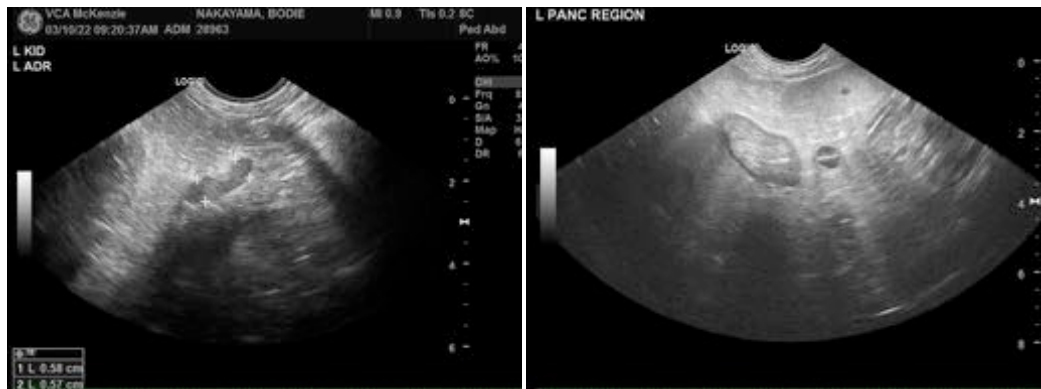
Neutered male

AGE

13 years

WEIGHT

19.6 lbs



INTERPRETED BY

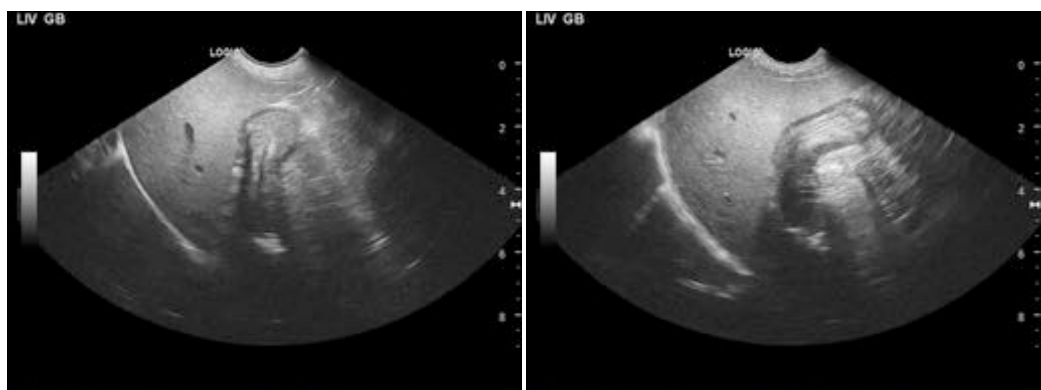
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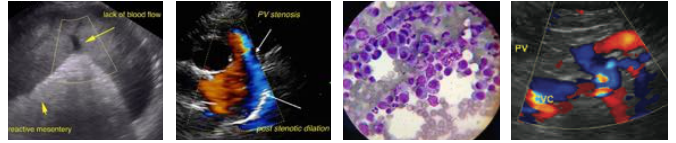
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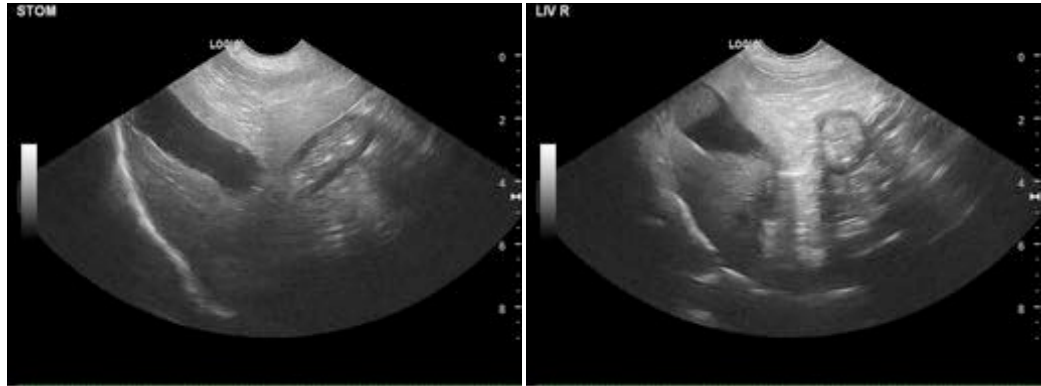
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BREED

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AGE

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WEIGHT

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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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