



PATIENT

PRESENTING CLINICAL SIGNS

Aida VerVoorn

Elevated liver values. Mildly elevated reticulocyte count.

SPECIES

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine

Urinary System

BREED

The **bladder** in this patient was mildly thickened with slight echogenic mural changes. No calculi or masses were noted. Slight micropolypoid changes were noted. This is a frequent finding in older animals and may be linked to a history of chronic urinary tract infection or active urinary tract infection. Urinalysis would be recommended with culture if any evidence of inflammatory sediment is present. The region of the trigone and visible pelvic urethra were normal.

Rat Terrier

SEX

Spayed female

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 left kidney measured 4.74 cm. The right kidney measured 5.11 cm.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Adrenal Glands

IMAGING PERFORMED BY

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The **adrenal glands** appeared slightly enlarged and swollen. No evidence of focal capsular expansion or invasion into the phrenic veins was noted. No overt suspicion of neoplasia was noted. This is considered likely a hyperplastic change associated with stress or adrenal endocrinopathy (PDH). If isosthenuria is persistently present and the patient morphologically suggests Cushing's disease then ACTH testing would be indicated. The left adrenal gland measured 2.43 x 0.88 cm at the caudal pole and 0.77 cm at the cranial pole. The right adrenal gland measured 2.45 x 1.23 cm at the cranial pole and 1.0 cm at the caudal pole.

HOSPITAL NAME

Butler VH

Spleen

REFERRING VET

Dr. Garro

The **spleen** in this patient was mildly enlarged with uniform parenchyma and was folded upon itself. This is a positional variant and is not pathological. There was no evidence of significant disease. Hyperechoic lipogranulomatous occlusions were noted.

INVOICE

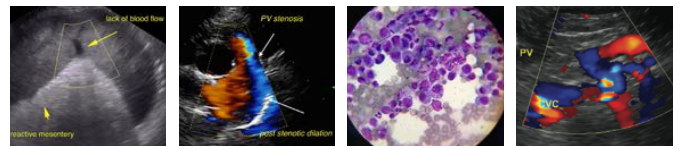
42514

Liver

DATE

11/15/22

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.



PATIENT

Gastrointestinal

Aida VerVoorn

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

Rat Terrier

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.

SEX

Spayed female

ULTRASONOGRAPHIC FINDINGS

Geriatric abdomen.

AGE

13 years

Bilateral adrenal hypertrophy.

Reactive hepatopathy/vacuolar hepatopathy.

INTERPRETED BY

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

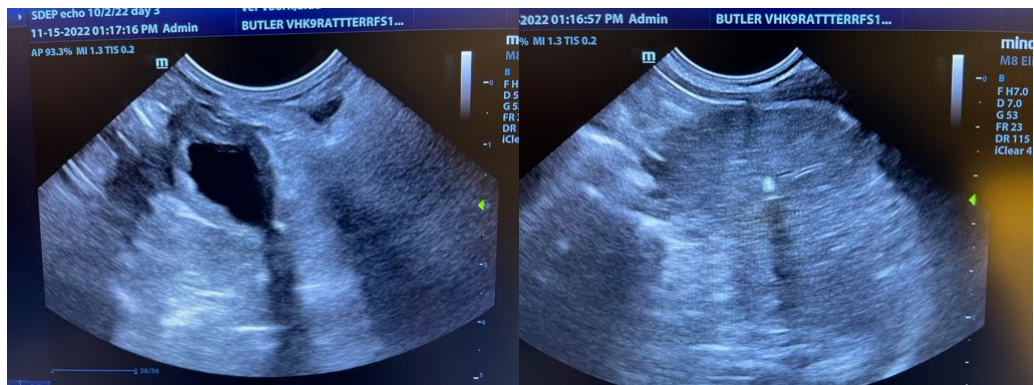
FNA of the liver can be considered for further definition. Hydrolyzed diet with 7-10 days of Metronidazole is recommended followed by reassessment of the liver values. Full adrenal panel to the University of Tennessee would be ideal in this patient. If the urine specific gravity drops below 1.020 time work-up for PDH is indicated. I recommend reassessment of the urinalysis for any inflammatory sediment that would suggest urinary tract infection is indicated.

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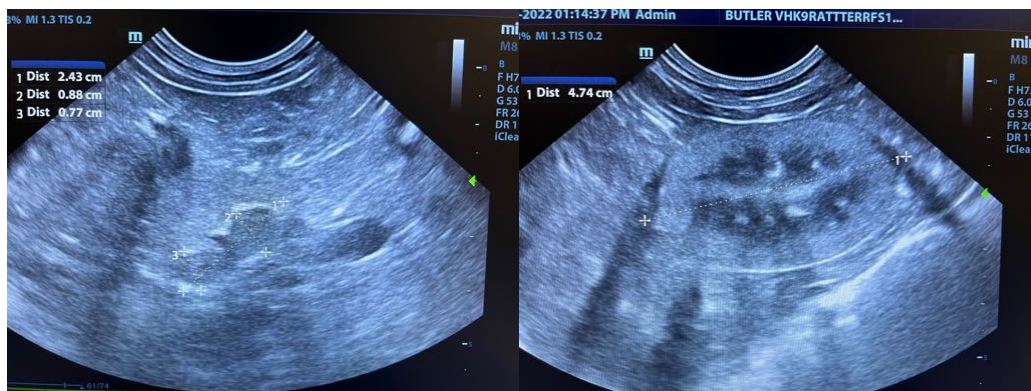
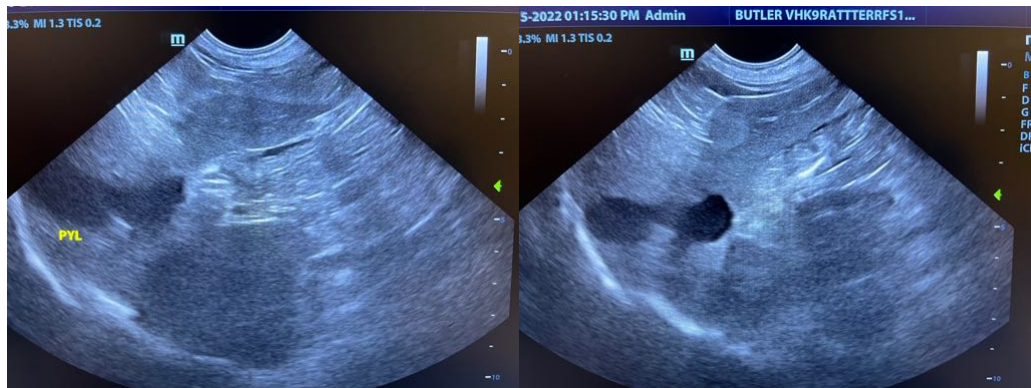
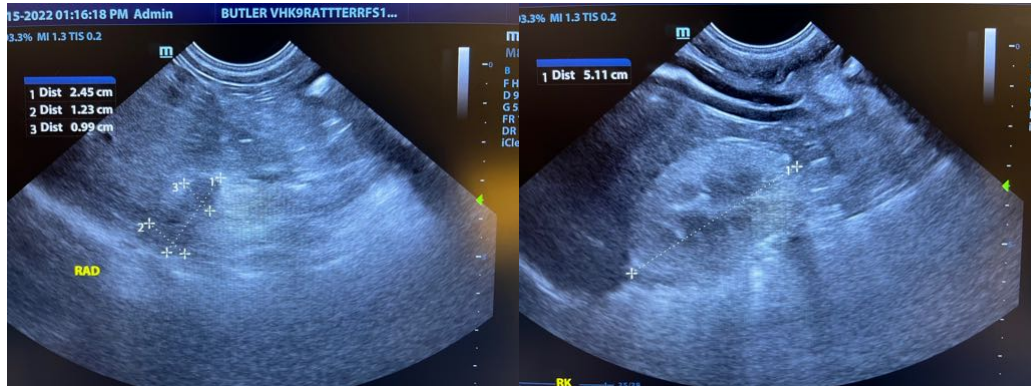
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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

Rat Terrier

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SEX

Spayed female

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