

PATIENT PRESENTING CLINICAL SIGNS

PATIENT Remy Rintelmann History: Elevated liver enzyme activity but asymptomatic. On Apoquel for atopy and budesonide for IBD.

SPECIES Canine Physical Examination: Normal.

Urinalysis: N/A.

BREED Bulldog Mix CBC: Normal.

Serum Biochemistry: Elevated ALT and ALP activity.

Radiographic Findings: Small liver.

SEX

MN

AGE

6 years

WEIGHT

25.1 #

INTERPRETED BY

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Dipl. ECVIM

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

Full urinary bladder with a thickened apical wall with the rest of the wall having a normal thickness and appearance. Normal anechoic urine with no sediment or uroliths evident.

Normal trigone area, proximal urethra, and iliac blood vessels.

Normal iliac lymph nodes. Ureters not visualized.

Normal renal size (left 4.4 cm, right 4.7 cm), echogenic appearance, cortico-medullary differentiation, capsule, and pelvis.

Reproductive System

N/A.

Adrenal Glands

Normal shape, position, echogenic appearance, and size.

Spleen

Normal size and echogenic appearance. Smooth homogenous parenchyma, smooth curvi-linear capsule, and normal vasculature. No evidence of inflammatory, neoplastic, infarction, or infiltrative changes noted.

Liver

Small with normal echogenic appearance, portal markings, and regular curvilinear capsule. No nodules or masses evident. Full gall bladder containing normal anechoic bile. Normal appearance and thickness of the gall bladder wall. Normal bile duct.

Gastrointestinal

Normal appearance of the stomach, ileo-cecal junction, and colon with no loss of layering, normal wall thickness and peristaltic activity, and no distension of the lumen. Thickening of the duodenum (0.63 cm) and small intestine (0.56 cm) with mucosal stippling and no loss of layering or distension of the lumen.

IMAGING PERFORMED BY

M. Kermendy, CVT

HOSPITAL NAME

Wauwatosa Veterinary
Clinic

REFERRING VET

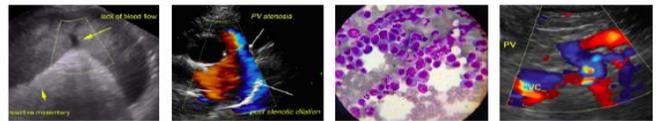
Dr Elaine Binor, DVM

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PATIENT *Pancreas*

Remy Rintelmann Normal size and echogenic appearance. Normal echogenic appearance of the mesentery and fat surrounding the pancreas.

SPECIES *Free Abdomen*

Canine No mesenteric lymphadenomegaly.
No ascites.

BREED

Bulldog Mix

ULTRASONOGRAPHIC FINDINGS

Primary findings:

- Small liver.
- Thickened bladder wall.
- Enteropathy.

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Secondary findings:

- None.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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Etiologies of the urinary bladder would be incidental finding, cystitis, and emerging neoplasia.

Although the liver appears small, ultrasonographically it is structurally normal. Reactive, vacuolar, drug-induced, and chronic hepatitis would need to be considered. There are no reports of Apoquel causing a hepatopathy, however, there is one report of budesonide resulting in elevated liver enzyme activity.

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The appearance of the small intestine is in line with the diagnosis of inflammatory bowel disease.

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Further assessment would be urinalysis, urine culture, BRAF assay, and FNA cytology of the liver. Tru-cut/wedge biopsy of the liver may, however, be required for a final etiological diagnosis.

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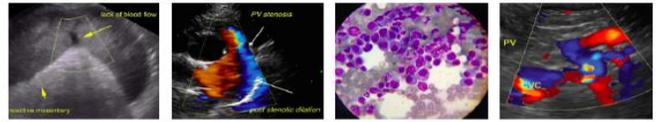
Specific therapy would be dependent on an etiological diagnosis. Symptomatic management of the liver would be ursodiol.

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PATIENT IMAGES

Remy Rintelmann **Urinary bladder**

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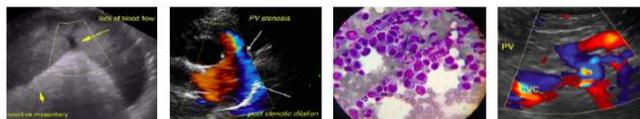
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Small intestine





PATIENT Liver

Remy Rintelmann

SPECIES

Canine

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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.

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.

IMAGING PERFORMED BY

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