



PATIENT PRESENTING CLINICAL SIGNS

Brownie Villafañe Martínez History: Elevated liver enzyme activity on pre-anesthesia bloods for routine dental – treated with Denamarin.

SPECIES Physical Examination: N/A.

Canine Urinalysis: N/A.

BREED CBC: N/A.

Terrier Mix Serum Biochemistry: Mildly elevated urea and ALT activity, elevated GGT activity and bilirubin.
Radiographic Findings: N/A.

SEX

MN

AGE

3 years

WEIGHT

38.8 #

INTERPRETED BY

Remo Lobetti, BVSc,
MMedVet (Med), PhD,
Dipl. ECVIM

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

Full urinary bladder with a normal thickness (0.1 cm) and appearance of the wall. Normal anechoic urine with no sediment or uroliths evident.

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

Normal iliac lymph nodes (left 0.4 cm, right 0.4 cm). Ureters not visualized.

Normal renal size (left 5.5, right 5.6 cm), increased echogenic appearance, cortico-medullary differentiation, pelvis, and capsule.

Reproductive System

Small hypoechogenic prostate (0.7 x 1 cm).

Adrenal Glands

Normal shape, echogenic appearance, position, and size. Left 0.41 cm, right 0.36 cm.

Spleen

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

Liver

Normal size with an increased echogenic appearance and some loss of portal markings. No nodules or masses evident. Full gall bladder containing normal anechoic bile. Normal thickness (0.2 cm) and appearance 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 (stomach 0.33 cm, colon 0.14 cm) and peristaltic activity and no distension of the lumen. Thickening of the duodenum (0.57 cm) and small intestine (0.53) with a hypoechogenic appearance of the submucosal layer but no loss of layering or distension of the lumen.

INVOICE

303044

DATE

6/20/22

IMAGING PERFORMED BY

Dr Gabriel Ferrer, DVM

HOSPITAL NAME

Paseos Veterinary Center

REFERRING VET

Dr Marylin Davila, DVM



PATIENT *Pancreas*

Brownie Villafañe
Martínez Normal size (right 1.3 cm, left 1.8 cm) and echogenic appearance. Normal echogenic appearance of the mesentery and fat surrounding the pancreas.

SPECIES *Free Abdomen*

Canine No mesenteric lymphadenomegaly.
No ascites.

BREED

Terrier Mix

ULTRASONOGRAPHIC FINDINGS

Primary Findings:

- SEX**
- Hepatopathy.
 - Enteropathy?

MN

Secondary Findings:

AGE

3 years

- None.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Etiologies for the liver would be reactive, vacuolar, metabolic, hepatitis (viral, bacterial, toxins) with infiltrative neoplasia a far less likely differential diagnosis.

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Although the appearance of the small intestine may be an incidental finding, inflammatory bowel disease, parasitic enteritis, and dietary hypersensitivity need to be considered.

With the liver changes and elevated bilirubin and urea, hemolytic disease (immune-mediated, vector-borne) needs to be considered.

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Further assessment would be fecal analysis, FNA cytology of the liver, in-saline agglutination /Coombs' test, 4Dx, and if there are compatible clinical signs, then endoscopy of the upper GI tract with biopsies.

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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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Martinez

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IMAGES

Liver



Jejunum



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.

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