



PATIENT PRESENTING CLINICAL SIGNS

History: Geriatric assessment. Chronic elevated liver enzyme activity but asymptomatic.

Physical Examination: N/A.

Urinalysis: Normal.

CBC: N/A.

Serum Biochemistry: Elevated ALT, ALP, and GGT activity and bilirubin.

Miniature Poodle Radiographic Findings: N/A.

SEX ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

MN *Urinary System*

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

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

WEIGHT Normal iliac lymph nodes (0.8 cm). Ureters not visualized.

3.4 kg Normal renal size (left 4.5 cm right 4.8 cm) with increased echogenic appearance, some loss of cortico-medullary differentiation, and normal pelvis and capsule.

INTERPRETED BY *Reproductive System*

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

Adrenal Glands

IMAGING PERFORMED BY Normal shape, echogenic appearance, size, and position. Left 0.58/0.49 cm, right 0.54/0.57 cm.

Dr Stan Gira

Spleen

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

Resolution Veterinary Ultrasound

REFERRING VET *Liver*

Dr Stan Gira Normal size with increased echogenic and nodular appearance, some loss of portal markings, and regular curvilinear capsule. Nodules are faint, hypoechogenic, and parenchymal. No masses evident. Full gall bladder containing large amount of adherent and non-adherent hyperechogenic sediment. Normal thickness and appearance of the gall bladder wall. Normal bile duct (0.2 cm).

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Gastrointestinal

DATE Normal appearance of the stomach, duodenum, small intestine, ileo-cecal junction, and colon with no loss of layering, normal wall thickness and peristaltic activity, and no distension of the lumen.

8/11/22

**PATIENT** *Pancreas*

Jojo Ngo Normal size (right 1.3 cm, left 1.3 cm) and echogenic appearance. Regular capsule. Normal echogenic appearance of the mesentery and fat surrounding the pancreas.

SPECIES *Free Abdomen*

Canine No mesenteric lymphadenomegaly.
No ascites.

BREED Normal size of aorta, caudal vena cava, and portal vein

Miniature Poodle

ULTRASONOGRAPHIC FINDINGS**SEX** Primary Findings:

- MN**
- Hepatopathy.
 - Gall bladder sediment.

Age

10 years

Secondary Findings:

- Age-related renal changes.

WEIGHT

3.4 kg

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**INTERPRETED BY**

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

Etiologies for the hepatopathy would be reactive, vacuolar, metabolic, chronic hepatitis, and nodular regeneration; with granulomatous disease and infiltrative neoplasia, highly unlikely differential diagnoses.

Although the gall bladder sediment is most likely an incidental finding, an emerging mucocoele needs to be considered.

IMAGING PERFORMED BY

Dr Stan Gira

Further assessment would be FNA cytology of the liver. Tru-Cut/wedge biopsy may, however, be required for a final etiological diagnosis.

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Ultrasound

Specific therapy would be dependent on an etiological diagnosis. Symptomatic therapy would be ursodiol.

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PATIENT IMAGES

Jojo Ngo **Liver**

SPECIES

Canine

BREED

Miniature Poodle

SEX

MN

Age

10 years

WEIGHT

3.4 kg

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HOSPITAL NAME

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 Ultrasound

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Gall bladder



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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