


**PATIENT PRESENTING CLINICAL SIGNS**

**PATIENT**  
Koadia MacPhail History: PuPd. Normal appetite, weight loss.

**SPECIES**  
Physical Examination: N/A.

Canine Urinalysis: Isosthenuria.

CBC: N/A.

**BREED**  
Serum Biochemistry: Elevated ALT and ALP activity.

Shepherd Mix Radiographic Findings: N/A.

**SEX**

MN

**Age**

12 years

**WEIGHT**

24 kg

**INTERPRETED BY**

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

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**
**Urinary System**

Small urinary bladder with a normal thickness 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 (0.3 cm). Ureters not visualized.

Normal renal size (left 6.8 cm, right 7.2 cm) with increased echogenic appearance, some loss of cortico-medullary differentiation, and normal pelvis and capsule.

**Reproductive System**

Small hypoechogenic prostate.

**Adrenal Glands**

Normal position, echogenic appearance, shape, and size. Left 0.77 cm.

**Spleen**

Normal size and echogenic appearance. Smooth homogenous parenchyma, regular curvilinear capsule, and normal vasculature. Small focal hypoechogenic parenchymal nodule (0.8 cm) in the body of the spleen. No evidence of inflammatory, neoplastic, infarction, or infiltrative changes noted.

**Liver**

Enlarged with a mottled echogenic and nodular appearance, loss of portal markings, and an irregular capsule. Nodules vary from hypo- to hyperechogenic, parenchymal, and of various sizes. No masses evident. Full gall bladder containing normal anechoic bile. Normal thickness and echogenic appearance of the gall bladder wall. Normal bile duct.

**Gastrointestinal**

Normal appearance of the stomach, duodenum, small intestine, ileo-cecal junction, and colon with no loss of layering, normal wall thickness (duodenum, 0.54 cm, jejunum 0.46 cm) and peristaltic activity, and no distension of the lumen.

**IMAGING PERFORMED BY**

Dr Sarah Barthelemy

**HOSPITAL NAME**

Bridgeland Vet Clinic

**REFERRING VET**

Dr Elock

**INVOICE**

303630

**DATE**

12/7/22

**PATIENT** *Pancreas*

Koadia MacPhail

Normal size and echogenic appearance, Regular capsule. Normal echogenic appearance of the mesentery and fat surrounding the pancreas.

**SPECIES**

Canine

*Free Abdomen*

No mesenteric lymphadenomegaly.  
No ascites.

**BREED**

Shepherd Mix

**ULTRASONOGRAPHIC FINDINGS****SEX**

Primary Findings:

MN

- Nodular hepatopathy.
- Splenic nodule.

**Age**

12 years

Secondary Findings:

- Age-related renal changes.

**WEIGHT**

24 kg

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

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Etiologies for the hepatopathy would be nodular regeneration, granulomatous disease, chronic hepatitis, and neoplasia.

Although the splenic nodule is most likely an incidental hyperplastic nodule, neoplasia and granuloma needs to be considered.

Further assessment would be 3-view thoracic radiographs and FNA cytology of the liver. Tru-Cut/wedge biopsy may, however, be required for a final etiological diagnosis.

Specific therapy would be dependent on an etiological diagnosis.

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**PATIENT**

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**SPECIES**

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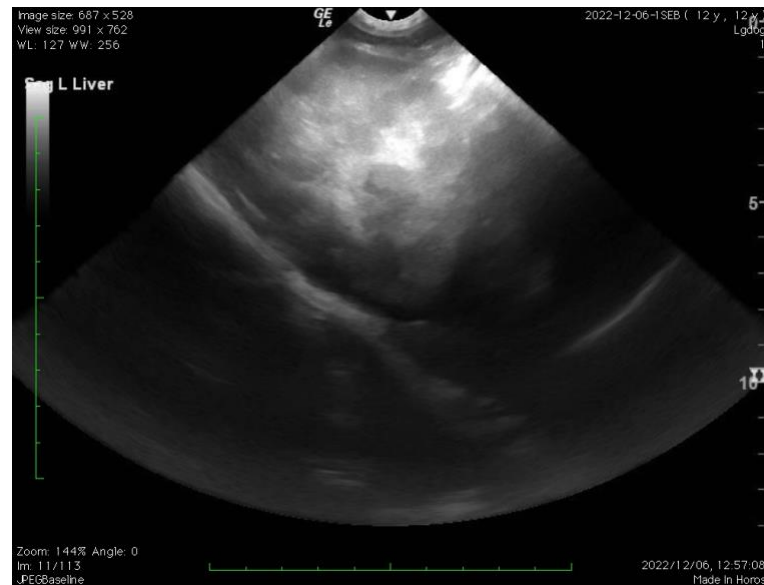
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**IMAGES**
**Liver**


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.

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