



**PATIENT**

Kylie Turner

**SPECIES**

Canine

**BREED**

Cockapoo

**SEX**

FS

**AGE**

13 years

**WEIGHT**

31 #

**INTERPRETED BY**

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

**IMAGING  
PERFORMED BY**

Lara Wiseman, DVM

**HOSPITAL NAME**

Boca Midtowne  
Animal Hospital

**REFERRING VET**

**INVOICE**

302608

**DATE**

10/19/21

**PRESENTING CLINICAL SIGNS**

History: Elevated phosphorous, calcium, and ALP activity.

Physical Examination: N/A.

Urinalysis: N/A.

CBC: N/A.

Serum Biochemistry: Elevated phosphorous, calcium, and ALP activity.

Radiographic Findings: N/A.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

Small urinary bladder with a normal thickness (0.38 cm) and appearance of the wall. Normal anechoic urine with no sediment or uroliths evident.

Normal trigone area, proximal urethra (0.28 cm) and iliac blood vessels.

Normal iliac lymph nodes. Ureters not visualized.

Normal renal size (left 5.3 cm, right 5.6 cm) with increased echogenic appearance, some loss of cortico-medullary differentiation, and normal capsule and pelvis.

**Reproductive System**

N/A.

**Adrenal Glands**

Normal shape, echogenic appearance, size, and position. Left 0.56 cm, right 0.48 cm.

**Spleen**

Normal size (1.2 cm) and echogenic appearance. Smooth homogenous parenchyma, smooth curvi-linear capsule, and normal vasculature. No evidence of inflammatory, neoplastic, infarction, or infiltrative changes noted.

**Liver**

Enlarged with rounded edges with a diffuse hyperechogenic and coarse appearance, and some loss of portal markings. No nodules or masses evident. Full gall bladder containing small amount of hyperechogenic sediment. Normal appearance and thickness of the gall bladder wall. Normal bile duct (0.17 cm).



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**Gastrointestinal**

Normal appearance of the gastro-esophageal junction, stomach, duodenum, small intestine, ileo-cecal junction, and colon with no loss of layering and normal wall thickness (stomach 0.37 cm, duodenum 0.47 cm, jejunum 0.37 cm) and peristalsis, and no distension of the lumen.

**Pancreas**

Normal size (right 0.9 cm) and echogenic appearance. Regular capsule. Normal echogenic appearance of the mesentery and fat surrounding the pancreas.

**Free Abdomen**

No mesenteric lymphadenomegaly.  
No ascites.

**ULTRASONOGRAPHIC FINDINGS**

Primary findings:

- Hepatopathy.
- Age-related renal changes vs renal disease.

Secondary findings:

- Gall bladder sediment.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

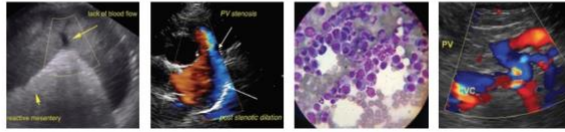
Etiologies for the hepatopathy would be age-related, reactive, vacuolar, metabolic, early cirrhosis, and chronic hepatitis, with infiltrative neoplasia, a far less likely differential diagnosis.

Although the appearance of the kidneys may merely be age-related changes, chronic kidney disease needs to be considered.

With the elevated phosphorous and calcium, renal disease, hypervitaminosis D, and Addison's disease needs to be considered.

Further assessment would be urine analysis, SDMA, and FNA cytology of the liver. Basal cortisol, PTH assay, and vitamin D assay can also be considered.

Specific therapy would be dependent on an etiological diagnosis.



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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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