



**PATIENT**

Louie Klein

**SPECIES**

Canine

**BREED**

Multipoo

**SEX**

MN

**AGE**

15½ years

**WEIGHT**

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Lara Wiseman, DVM

**HOSPITAL NAME**

Calusa Veterinary  
Center

**REFERRING VET**

Dr Ranade

**INVOICE**

303845

**DATE**

2/2/23

**PRESENTING CLINICAL SIGNS**

History: Acute anorexia/hyporexia, vomiting, and abdominal pain.

Physical Examination: N/A.

Urinalysis: N/A.

CBC: N/A.

Serum Biochemistry: Azotemia, elevated phosphate, PSL, and liver enzyme activity.

Radiographic Findings: N/A.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

Full urinary bladder with a normal thickness (0.2 cm) and appearance of the wall. Small amount of floating hyperechogenic sediment present. No uroliths evident.

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

Normal iliac lymph nodes. Ureters not visualized.

Left kidney – normal size (4.2 cm) with increased echogenic appearance, some loss of cortico-medullary differentiation, pyelectasia (0.2 cm), and normal capsule.

Right kidney – large irregular mottled echogenic cavitatory mass (5 x 5.3 cm).

**Reproductive System**

Small hypoechoic prostate (0.8 cm).

**Adrenal Glands**

Normal shape, echogenic appearance, position, and size. Left 0.51 cm, right 0.49 cm.

**Spleen**

Normal size (1.1 cm) and echogenic appearance. Smooth homogenous parenchyma, regular curvilinear capsule, and normal vasculature. No evidence of inflammatory, neoplastic, infarction, or infiltrative changes noted.

**Liver**

Enlarged with mottled echogenic appearance, loss of portal markings, and irregular capsule. Multiple irregular mottled echogenic masses (up to 2.9 x 3.2 cm) with bulging of the overlying capsule. Full gall bladder containing small amount of hyperechogenic sediment. Normal thickness and echogenic appearance of the gall bladder wall. Normal bile duct.



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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, normal wall thickness (jejunum 0.31 cm) and peristalsis, and no distension of the lumen.

**Pancreas**

Normal size 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:

- Right renal mass.
- Hepatic masses.

Secondary findings:

- Gall and urinary bladder sediment.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The appearance of the right kidney and liver is consistent with metastatic neoplasia.

Further assessment that could be considered would be 3-view thoracic radiographs and FNA cytology of the renal and hepatic masses.

At this point palliative therapy would be indicated.

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**IMAGES**

Liver





**PATIENT**

**Right kidney**

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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.

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