



PATIENT PRESENTING CLINICAL SIGNS

Cokito Ale History: Referred for abdominal ultrasound for evaluation of azotemia, anemia and leukopenia.
SPECIES Physical Examination: N/A.
 Canine Urinalysis: N/A.
BREED CBC: Anemia, mild leukopenia.
 Shih Tzu Serum Biochemistry: Azotemia, hypoalbuminemia, hyperglobulinemia.
 Radiographic Findings: N/A.

SEX ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

MN Urinary System

AGE Full urinary bladder with a normal thickness (0.1 cm) and appearance of the wall. Small amount of floating hyperechogenic sediment. No uroliths evident.

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

13.1 # Normal iliac lymph nodes (right 0.4, left 0.5 cm). Ureters not visualized.

Normal renal size (left 4.9 cm, right 4.5 cm) with increased echogenic appearance, loss of cortico-medullary differentiation, and irregular capsule. Bilateral pyelectasia (0.56 cm).

INTERPRETED BY Reproductive System

Remo Lobetti, BVSc, MMedVet (Med), PhD, Dipl. ECVIM
 Small hypoechogenic prostate (1 cm).

IMAGING PERFORMED BY Adrenal Glands

Dr Gabriel Ferrer, DVM
 Normal shape, echogenic appearance, position, and size. Left 0.56 cm, right 0.37 cm.

HOSPITAL NAME Spleen

Paseos Veterinary Center
 Normal size (1.2 cm) and echogenic appearance. Smooth homogenous parenchyma, regular capsule, and normal vasculature. No evidence of inflammatory, neoplastic, infarction, or infiltrative changes noted.

REFERRING VET Liver

Dr Carlos Zequeira
 Normal size, echogenic appearance, and portal markings. No nodules or masses evident. Full gall bladder containing moderate amount of hyperechogenic sediment. Normal thickness (0.1 cm) and echogenic appearance of the gall bladder wall. Normal bile duct.

INVOICE Gastrointestinal

302954

DATE Normal appearance of the stomach, duodenum, small intestine, ileo-cecal junction, and colon with no loss of layering, normal wall thickness (stomach 0.28 cm, duodenum 0.41 cm, jejunum 0.32 cm, colon 0.19 cm) and peristaltic activity and no distension of the lumen.

5/10/22



PATIENT *Pancreas*

Cokito Ale Normal size (left 1.4 cm, right 1.1 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

Shih Tzu **ULTRASONOGRAPHIC FINDINGS**

Primary Findings:

- Renal disease.

SEX

MN

Secondary Findings:

AGE

9 years

- Gall and urinary bladder sediment.

WEIGHT **INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

13.1 # The appearance of the kidneys is consistent with chronic kidney disease with pyelonephritis a differential diagnosis.

INTERPRETED BY Although the gall bladder sediment is most likely an incidental finding, monitoring for the development of a mucocele would be recommended.

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

Further assessment would be urinalysis, urine culture, UPC (if culture and sediment negative) and blood pressure. Although the anemia can be ascribed to the renal disease with the leukopenia and severe hyperglobulinemia, conditions such as multiple myeloma with secondary hypercalcemia nephropathy needs to be considered with serum calcium assay and serum protein electrophoresis recommended.

IMAGING PERFORMED BY

Dr Gabriel Ferrer, DVM

Specific therapy would be dependent on an etiological diagnosis.

HOSPITAL NAME

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PATIENT

Cokito Ale

SPECIES

Canine

BREED

Shih Tzu

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AGE

9 years

WEIGHT

13.1 #

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IMAGES

Left kidney



Right kidney





PATIENT Gall bladder

Cokito Ale

SPECIES

Canine

BREED

Shih Tzu

SEX

MN

AGE

9 years

WEIGHT

13.1 #



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MMedVet (Med), PhD,
Dipl. ECVIM

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.

IMAGING PERFORMED BY

Dr Gabriel Ferrer, DVM

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.

HOSPITAL NAME

Paseos Veterinary Center

Remo Lobetti, BVSc, MMedVet (Med), PhD, Dipl. ECVIM (Internal Medicine)
rlobetti@mweb.co.za

REFERRING VET

Dr Carlos Zequeira

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