



PATIENT PRESENTING CLINICAL SIGNS

Jake Coello History: Wellness assessment with owner reporting that he had been pickier with his food, showed vomiting, and was polydipsic.

SPECIES Physical Examination: Normal.

Canine Urinalysis: 4+ protein, leukocytes and erythrocytes. UPC 14.

BREED CBC: Thrombocytopenia.

Bichon Frise Serum Biochemistry: Hypoproteinemia, azotemia. *Borrelia burgdorferi* positive.
Radiographic Findings: N/A.

SEX

Male

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

AGE *Urinary System*

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

WEIGHT

7.6 #

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

Normal iliac lymph nodes. Ureters not visualized.

INTERPRETED BY

Remo Lobetti, BVSc,
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ECVIM

Normal renal size with increased echogenic appearance, loss of cortico-medullary differentiation, normal pelvis, and irregular capsule.

Reproductive System

Prostamegaly with normal shape, increased echogenic appearance, and regular capsule. Normal appearance of the peri-prostatic tissue.

IMAGING PERFORMED BY

Dr Paul Kim

Adrenal Glands

Normal shape, echogenic appearance, position, and size. Left 1.72 x 0.57 cm, right 1.63 cm.

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Hospital

Spleen

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

REFERRING VET

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Liver

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Normal size, echogenic appearance, portal markings, and regular curvilinear capsule. No nodules or masses evident. Small gall bladder containing normal anechoic bile. Normal thickness and appearance of the gall bladder wall. Normal bile duct.

DATE

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Gastrointestinal

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. Small amount of fluid within the stomach.



PATIENT *Pancreas*

Jake Coello Normal size (left 0.4 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

Bichon Frise **ULTRASONOGRAPHIC FINDINGS**

Primary Findings:

SEX

- Renal disease.

Male

Secondary Findings:

AGE

- Benign prostatic hyperplasia.

9 years

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

7.6 #

The appearance of the kidneys is consistent with chronic kidney disease and most likely from the Lyme disease with bacterial nephritis a less likely differential diagnosis.

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Further assessment would be urine culture and blood pressure.

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Management of the Lyme disease would be a 4-week course doxycycline. Management of the renal disease would be renal diet, enteric phosphate binders as needed, and an ACE inhibitor/receptor blocker.

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PATIENT IMAGES

Jake Coello **Left kidney**

SPECIES

Canine

BREED

Bichon Frise

SEX

Male

AGE

9 years

WEIGHT

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Right kidney





PATIENT

Jake Coello

Prostate

SPECIES

Canine

BREED

Bichon Frise

SEX

Male

AGE

9 years

WEIGHT

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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.

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