



PATIENT PRESENTING CLINICAL SIGNS

Gizmo Smith History: 3/6 murmur, several years - cough, straining to defecate, blood from penis
 Abnormal PE/Chem/CBC/UA Results: USG 1.048 mild blood and protein

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Urinary System

Australian Shepherd

The urinary bladder was normal in size and tone with a mildly prominent ventral to ventral apical urinary bladder wall with mild asymmetrical luminal surface contour. Anechoic urine was present in the lumen with mild focally to accrued areas of dependent mineral to small calculi. The ureteral papillae were normal. The ureters were not visible which is normal.

SEX

M

Normal size and margination was present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and mild loss of corticomedullary symmetry and definition expected for the age of the patient. Minor areas of medullary mineral noted. No evidence of pelvic dilation was present. The left kidney measured 4.9 cm in length. The right kidney measured 4.9 cm in length.

AGE

12 years

The area of the aortic trifurcation was free of pathology.

WEIGHT

31.4

The prostate was enlarged in size with intact, symmetrical capsule contour. The margins of the gland were intact and able to be differentiated from the surrounding tissue. The prostatic parenchyma was mildly echogenic to heteroechoic with variably sized thinly walled cysts, an example measuring 2.8 cm in diameter. The prostate measured 7.6 cm x 3 cm.

INTERPRETED BY

R. McKenzie Daniel,
 DVM, DABVP
 (Canine and Feline)

The right testicle was sonographically unremarkable measuring 2.5 cm diameter.

The left testicle exhibited a focal mildly nonhomogeneous to micro cystic nodule measuring 1.6 cm in diameter. Overall, the left testicle measured 2.8 cm in diameter.

IMAGING PERFORMED BY

Rebekah Jakum, CVT
 ARDMS/RVT

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.53 cm width at the caudal pole and 0.47 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.44 cm width at the caudal pole and 0.63 cm width at the cranial pole.

HOSPITAL NAME

The Village
 Veterinarian

Spleen

The spleen exhibited primarily finely textured parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Mild generalized parenchyma heterogeneity was present without evidence of nodular changes. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. The parenchymal heterogeneity is likely consistent with benign changes such as extramedullary hematopoiesis or age related remodeling with minor potential for inflammatory or neoplastic disease.

REFERRING VET

Dr. Longenecker

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Liver

The liver was subjectively normal in size, structure, and contour. The liver parenchyma was uniform and hypoechoic to the spleen with a mild coarse echotexture. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

DATE

05/10/2022



PATIENT *Gastrointestinal*

Gizmo Smith The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction or foreign material.

SPECIES The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material.

Canine Normal visible colon wall layers were present with apparent formed feces in lumen.

BREED *Pancreas*

Australian Shepherd The parenchyma of the left limb, body and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease was evident.

SEX *Free Abdomen*

M No overt lymphadenopathy or peritoneal effusion was present.

AGE

12 years

ULTRASONOGRAPHIC FINDINGS

WEIGHT

31.4

- Nonspecific nondisruptive left testicle nodule
- Prostatomegaly exhibiting nonhomogeneous parenchyma with variably sized intraparenchymal cysts-benign prostatic hyperplasia with intraparenchymal cysts, potential for prostatitis possible
- Mild dependent urinary bladder mineral/calculi and suspect mild cystitis
- Mild chronic renal changes with non obstructive medullary mineral

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

A urine C/S on sterile urine sample would be ideal given the presence of mild urinary bladder mineral/calculi. Potentially this patient may be passing small amounts of mineral from the kidneys into the UB. Mild impingement of the prostate into the area of the colon is possible as a contributing factor to the patient's straining to defecate. Neutering would be ideal with sonographic monitoring of prostatic involution as well as submission of left testicle for histopathology. A urinary diet could be considered for potential dissolution of the UB mineral.

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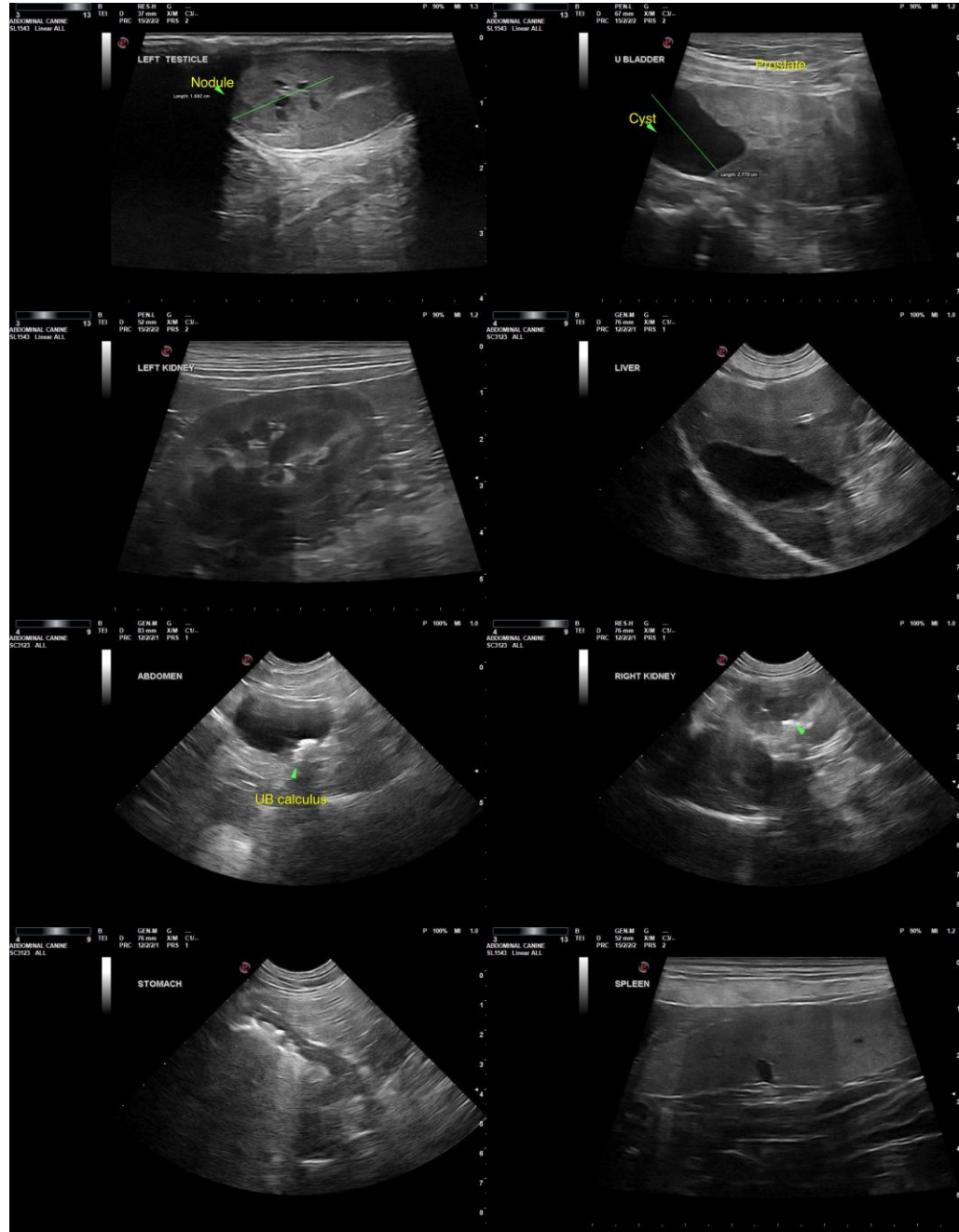
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)
mac.daniel@sonopath.com



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