



PATIENT PRESENTING CLINICAL SIGNS

Paco Arnoldi 4/6 heart murmur, difficulty urinating, dysuria, stranguria.
Medication: Vetmedin 2.5am/1.25pm, lasix 6.25

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Chihuahua Mix

Urinary System

The urinary bladder was normal in size and tone exhibiting a normal urinary bladder wall without evidence of inflammatory mural criteria or tumors. Anechoic urine was present primarily with a focal area of dependent lumen mineral in the area of the dorsal trigone and cystourethral junction. The visualized proximal urethra exhibited normal structure and tone to a depth of 3.0 cm.

SEX

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The residual prostate was symmetrically normal in size with uniform parenchyma and slight coarse echotexture measuring 0.6 cm in diameter.

AGE

2010

The area of the aortic trifurcation was free of pathology.
Normal size and margination were 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. No evidence of pelvic dilation was present. Areas of nonobstructive medullary mineralization to renolithiasis were noted primarily in the lateral diverticuli of both kidneys, more prominent in the right kidney. The left kidney measured 3.8 cm in length. The right kidney measured 4.1 cm in length.

WEIGHT

12.6

INTERPRETED BY

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

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 1.3 cm length x 0.37 cm width at the caudal pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 1.5 cm length x 0.57 cm width at the caudal pole.

IMAGING PERFORMED BY

Rebekah Jakum, CVT
ARDMS/RVT

Spleen

The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. 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. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted. Focal, discreet, hyperechoic nodule was present, consistent with benign myelolipoma.

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REFERRING VET

Dr. Bandekar

Liver/ Gallbladder

The liver was subjectively normal in size, structure, and contour. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild parenchymal remodeling. The hepatic and portal vasculature were normal in appearance without signs of congestion. Normal vascular volume was noted. The gallbladder was non-distended exhibiting normal appearance of the gallbladder wall without evidence of inflammatory criteria. The gallbladder contained anechoic content with moderate congealed nonorganized hyperechoic

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Paco Arnoldi

gallbladder sediment and suspect peripheral lumen mucus. No evidence of peripheral inflammation was noted. The cystic and common bile ducts were normal.

Gastrointestinal

SPECIES

Canine

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained nonshadowing ingesta, sonographically consistent with food without signs of obstruction or foreign material.

BREED

Chihuahua Mix

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.

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

SEX

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Pancreas

The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum, consistent with age-related pancreatic changes and incidental. No signs of active inflammation or neoplasia.

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Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

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ULTRASONOGRAPHIC FINDINGS

Primary Findings

- Sonographically unremarkable urinary bladder with focal dependent lumen mineral
- Sonographically unremarkable residual prostate and visible proximal urethra
- Bilateral nonobstructive medullary mineralization / renolithiasis
- Mild hepatic parenchymal remodeling
- Moderate congealed yet nonorganized gallbladder sediment and suspect mucus - possible early mucocele

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Secondary Findings

- Nonshadowing gastric ingesta - sonographically consistent with food

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No overt evidence of lower urinary tract pathology as an obvious cause of the patient's difficulty urinating. Potentially, this patient may be passing small amounts of mineral from the kidneys into the urinary bladder. Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered. Rectal palpation could be considered for assessment of the non-visualized urethra.

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Assessment of hepatic enzyme levels or for evidence of cholestasis is suggested. Hepatosupportive medications including Denamarin and Ursodiol are recommended if clinically indicated.

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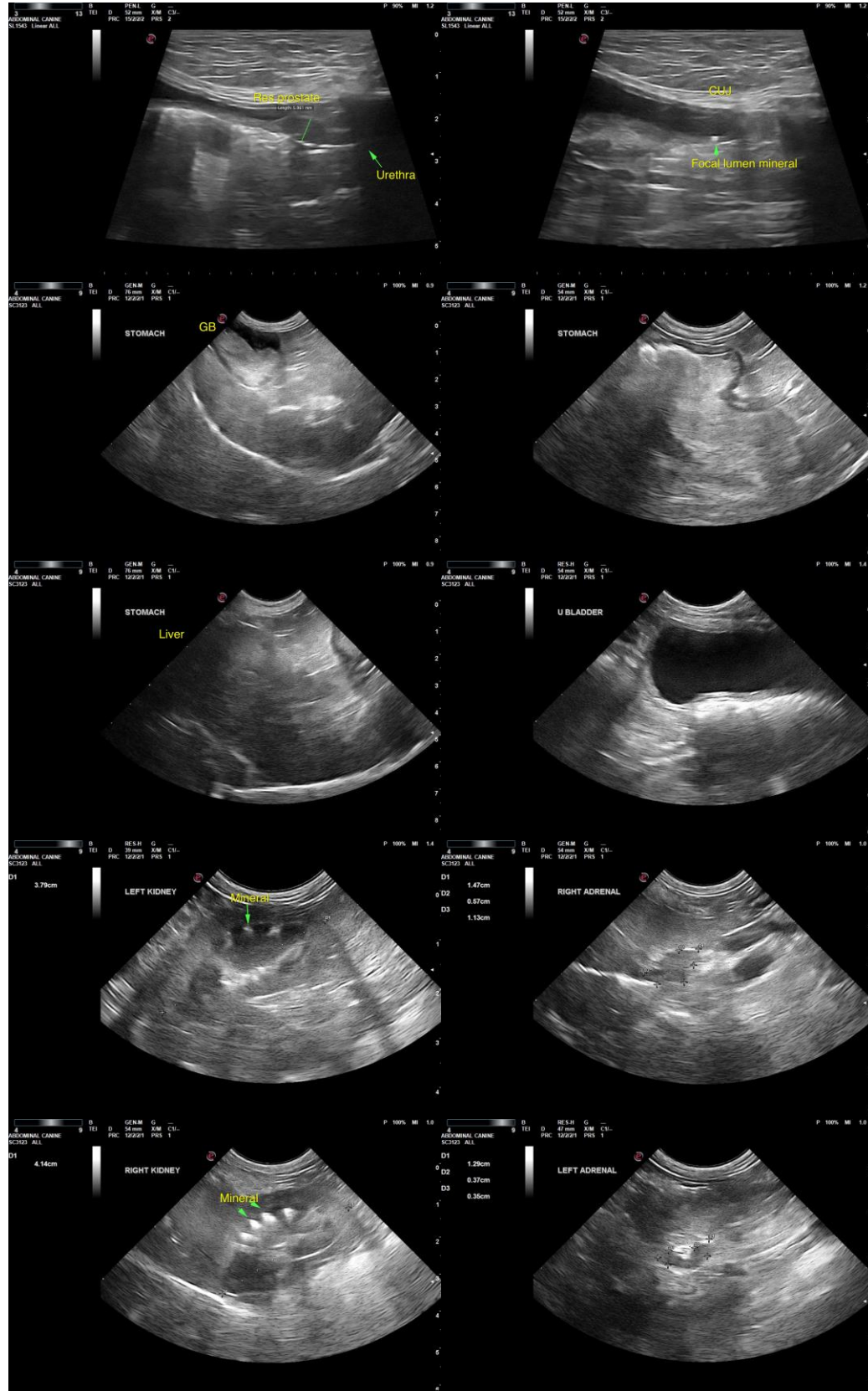
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

SPECIES

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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.

BREED

Chihuahua Mix

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