

PATIENT PRESENTING CLINICAL SIGNS

PATIENT Pluto Hawes Steadily increasing kidney values. Have always been just above normal but recently spiked. Had an episode of not eating and has diarrhea off and on (however this is normal for him). IVF therapy for 24 hours overnight and mild improvement in BUN but Creatinine continues to go up.

SPECIES Canine Abnormal PE/Chem/CBC/UA Results: Urine Sp grav - 1.027 (midday) Proteinuria 4+ in urine Blood in urine 1+ Creatinine 303 Urea 14 CBC normal

BREED ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Greyhound

Urinary System

SEX The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 cm exhibited normal thickness and tone. Primarily anechoic urine was present in the lumen. Mild, non-dependent, particulate sediment, which may indicate cellular debris / protein in conjunction with urinalysis, crystalline debris, or mucus, was present without evidence of calculus formation. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic mural changes were noted.

MN

AGE 10 years

The area of the residual prostate was free of pathology.

WEIGHT 35 kg The area of the aortic trifurcation was free of pathology.

Both kidneys exhibited potential for mild subnormal size in light of the patient body weight with asymmetrical margination. A subjective maintained 1:3 cortex/medullary ratio with moderate loss of corticomedullary border demarcation and mild variably echogenic corticomedullary parenchyma were present. Bilateral pyelectasia was noted, more prominent in the left kidney. The left kidney measured 5.7 cm in length. The right kidney measured 6.6 cm in length.

INTERPRETED BY

R. McKenzie Daniel, DVM, DABVP

Adrenal Glands

IMAGING PERFORMED BY

Crystal Hill

The left adrenal gland was normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 0.86 cm width in the cranial pole and 0.80 cm width in the caudal pole. The right adrenal gland was indistinctly visualized owing to patient size and conformation without overt pathology.

HOSPITAL NAME

Queensway AH

Spleen

REFERRING VET

Dr. Hill

The spleen exhibited mild generalized enlargement with 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. No evidence of splenic masses or nodules was noted. Normal splenic vascularity was present.

INVOICE

15262

Liver/ Gallbladder

DATE

10/26/22

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



PATIENT

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.

Pluto Hawes

Gastrointestinal

SPECIES

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.

Canine

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.

BREED

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

Greyhound

SEX

Pancreas

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 were evident.

MN

AGE

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

10 years

WEIGHT

ULTRASONOGRAPHIC FINDINGS

35 kg

- Mild urinary bladder sediment
- Moderate nonspecific chronic renal changes exhibiting potential for mild subnormal renal size, mild bilateral pyelectasia
- Nonspecific yet subjective benign splenomegaly - incidental hyperplasia, hematopoiesis, or splenitis possible, no overt evidence of splenic neoplastic criteria
- Sonographically unremarkable gastrointestinal tract

INTERPRETED BY

R. McKenzie Daniel,
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

IMAGING PERFORMED BY

Crystal Hill

Sonographically, the appearance of the bilateral kidneys is suggestive of moderate potentially progressive chronic renal disease with bilateral pyelectasia potentially owing to chronic renal changes, pelvic scarring, or IV fluid therapy. Underlying chronic nephritis such as glomerulonephritis or less likely pyelonephritis cannot be definitively excluded, given evidence of proteinuria. Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered.

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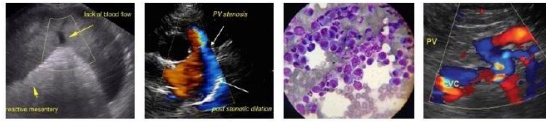
The possibility of progressing end-stage chronic renal disease could be present yet renal prognosis is likely dependent upon further assessment following diuresis protocol, further renal staging, and assessment of systemic BP. Long-term CKD therapy, which may include renal diet and as-needed GI support is recommended.

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Canine

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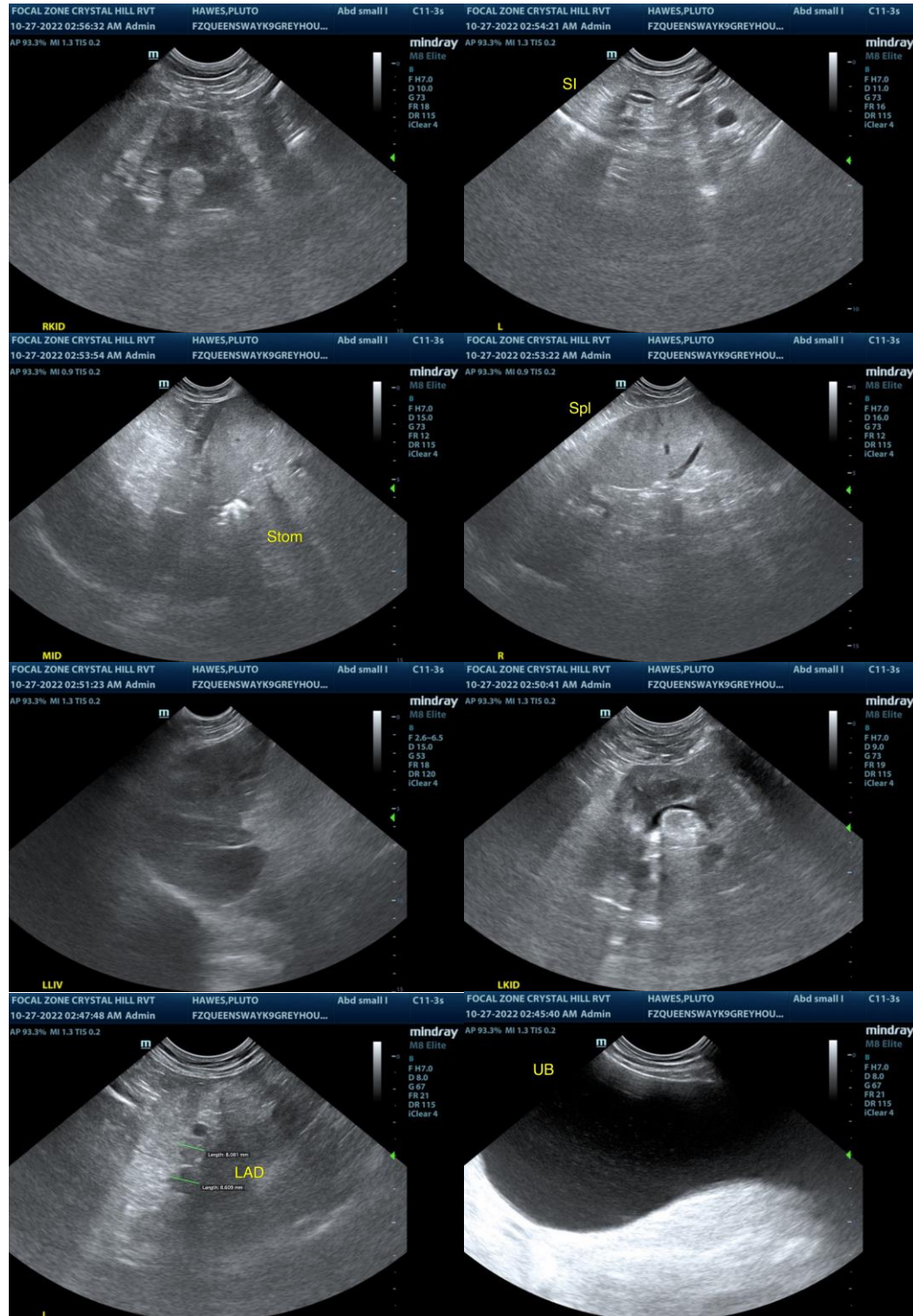
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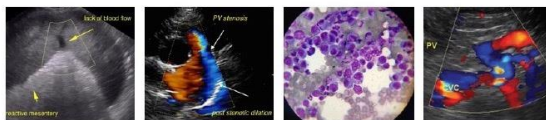
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

SPECIES

Canine

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

Greyhound

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SEX

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AGE

10 years

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35 kg

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