



PATIENT PRESENTING CLINICAL SIGNS

Ozzy Polly Ongoing urinary incontinence. Was sent with Gaba/Traz for fear free as very nervous during scan. Was neutered at Referral hospital.

SPECIES Abnormal PE/Chem/CBC/UA Results: UPC ratio - normal 0.1 U/A free catch - yellow, clear, Sp. Grav 1.016, pH 5.5, WBCs 0-2/hpf, RBCs 0-2/hpf, no bacteria seen, rare squamous epith cell, no crystals Urine culture negative Cortisol baseline 33(28-120) Cortisol post ACTH 386(220-550) CBC NSF other than very mild elevation in Lymphocytes. Chem - SDMA M1 elevation 15, Sodium M1 elevation 156, Chloride M1 elevation, Chloride M1 elevation, T. protein borderline low normal, Globulins low, ALT M1 elevation. 4DX negative

Breed Canine

Breed Poodle Mix **ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

SEX *Urinary System*

MN The urinary bladder was normal in size and tone with overall normal urinary bladder wall presentation. The trigone and cystourethral junction were sonographically unremarkable. Subjective decreased tone at the level of the cystourethral junction with mild decreased proximal to prostatic urethra tone was present. Anechoic urine was present in the lumen with very minor particulate sediment. The sediment may indicate cellular debris / protein, crystalline debris, lipid, or mucus. The ureteral papillae were free of overt pathology. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.

AGE 2yr

WEIGHT 7.5kg Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 3.6 cm in length. The right kidney measured 3.7 cm in length.

INTERPRETED BY R. McKenzie Daniel, DVM, DABVP (Canine and Feline) The area of the aortic trifurcation was free of pathology.

The area of the residual prostate appeared normal and free of pathology measuring 1.6 cm x 0.9 cm. The post prostatic urethra was overtly normal in appearance.

IMAGING PERFORMED BY *Adrenal Glands*

Crystal Hill The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.28 cm width at the caudal pole and 1.9 cm length. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.47 cm width at the caudal pole and 1.3 cm length.

HOSPITAL NAME *Spleen*

Hartzel AH 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.

REFERRING VET *Liver/Gallbladder*

Hobbs 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.

INVOICE 13744ag

DATE 05/08/2023



PATIENT *Gastrointestinal*

Ozzy Polly 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*

Poodle Mix 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

MN

No omental masses, overt lymphadenopathy or peritoneal effusion was present.

AGE

ULTRASONOGRAPHIC FINDINGS

2yr

- Overtly normal urinary bladder and prostate gland with minor urinary bladder particulate sediment.
- Mild decreased tone at level of cystourethral junction and proximal/prostatic urethra.
- Sonographically unremarkable bilateral kidneys.
- Sonographically unremarkable liver exhibiting normal vascular volume-low grade hepatopathy.

WEIGHT

7.5kg

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INTERPRETED BY

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

A definitive cause of the urinary incontinence was not obvious without definitive evidence of lower urinary tract structural pathology, cystitis, mineral/calculi or overt congenital defect i.e., ectopic ureter. Technically if the pattern of incontinence is consistent, the possibility of a small defect such as a small ectopic which may be difficult to visualize sonographically cannot be definitively excluded. If the pattern or urination more closely resembles dribbling, reflex dyssynergia could be consideration in this patient.

IMAGING PERFORMED BY

Crystal Hill

Contrast/advanced imaging may be indicated if true urinary incontinence pattern is present. An internal medicine consult could be considered for potential empirical medical therapy with assessment of clinical response given the patient is a castrated male.

HOSPITAL NAME

Hartzel AH

For an additional charge, internal medicine consult can be utilized through Sonopath.com. You can select the internal medicine drop down at <http://spa.sonopath.com/>.

REFERRING VET

Hobbs

One of the world's top internists & SonoPath associate Dr. Remo Lobetti BVSc, MMedVet, PhD, DECVIM can evaluate your case through SonoPath. <https://sonopath.com/resources/sonopath-services/internal-medicine-teleconsultation-services>

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Ozzy Polly

SPECIES

Canine

BREED

Poodle Mix

SEX

MN

AGE

2yr

WEIGHT

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HOSPITAL NAME

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REFERRING VET

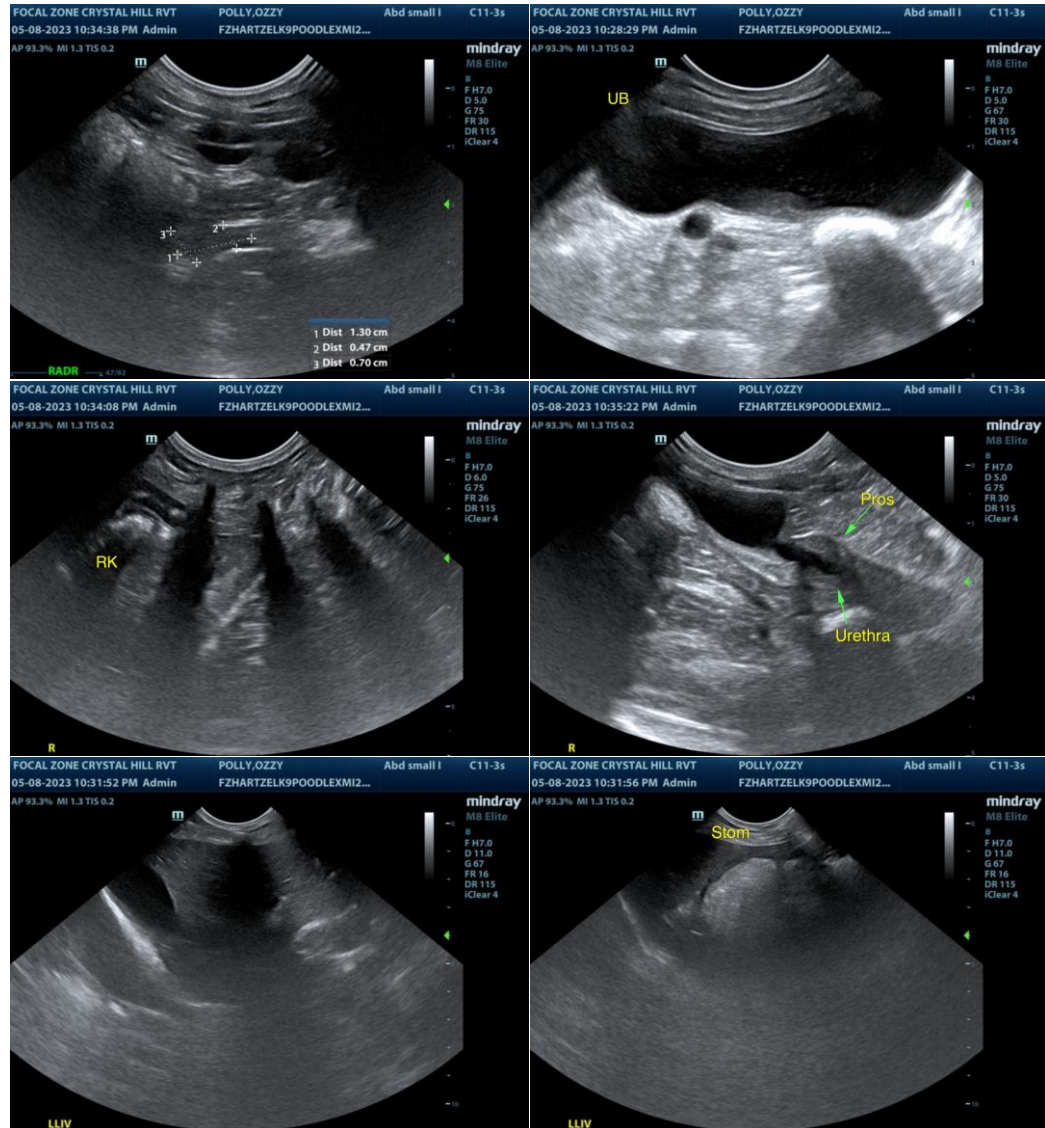
Hobbs

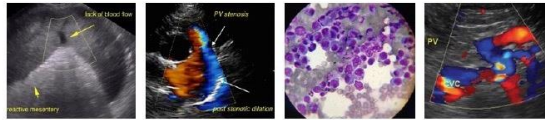
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PATIENT

Ozzy Polly

SPECIES

Canine

BREED

Poodle Mix

SEX

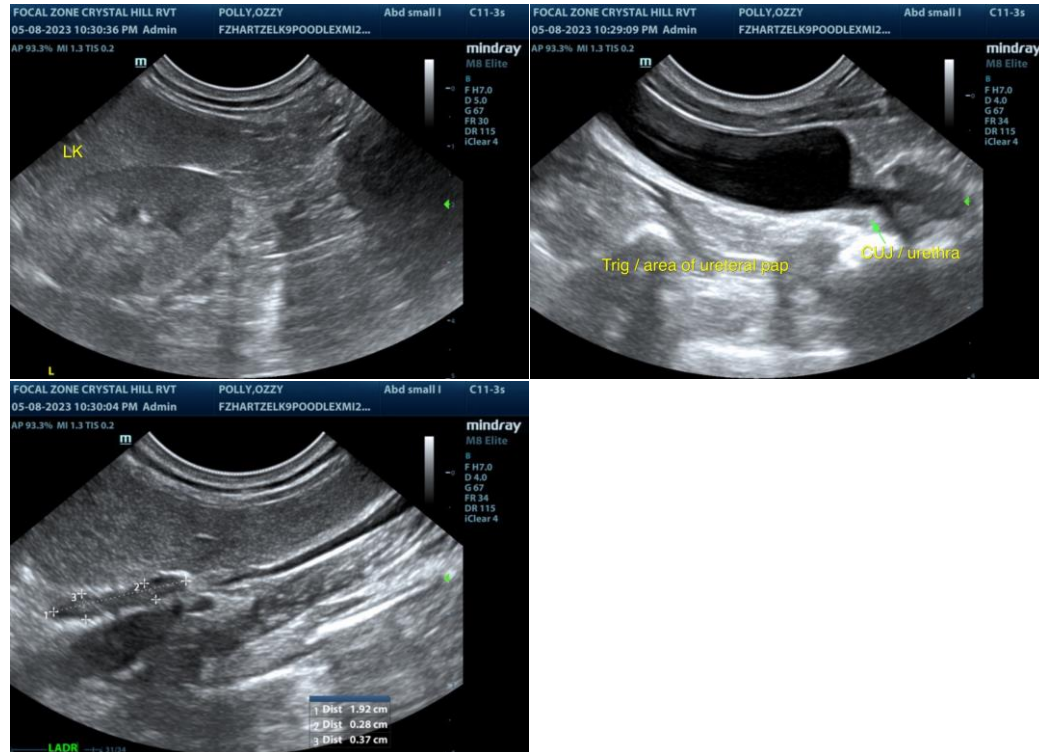
MN

AGE

2yr

WEIGHT

7.5kg



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)

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