



**PATIENT PRESENTING CLINICAL SIGNS**

Sultan Weir o noticed small amt of urine leakage on blanket 3 days ago sg 1029 at 6am and by noon sg 1018, pH 6-6.5 o has noted improvement brought in urine collected this morning -> History of stones meds: o has started on an emergency supply of enrofloxacin 30mg sid SYRINGING 10MLS OF WATER HOURLY TO KEEP PET HYDRATED

**SPECIES**

Canine

Abnormal PE/Chem/CBC/UA Results: Urine Creatinine 7577 umol/L Urine Cortisol/ Creatinine 4  
Urine Cortisol <27.6 nmol/L

**BREED**

Papillon

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The urinary bladder normal thickness and tone. Primarily anechoic urine was present in the lumen. Mild non-dependent particulate sediment as well as mild hyperechoic dependent sand to potential minor mineral 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.

**SEX**

Neutered Male

The area of the aortic trifurcation was free of pathology.

**AGE**

8 Years

The residual prostate was symmetrically normal in size with uniform parenchyma and slight coarse echotexture. The prostate measured 1.4 cm in diameter. No evidence of prostatic pathology or parenchymal mineralization. Minor dilation of the prostatic urethra noted, which is non-specific. The post-prostatic urethra exhibited normal structure and tone to a depth of 5.0 cm.

**WEIGHT**

4.26 kg

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. Potential minor dystrophic mineral present in both kidneys. The left kidney measured 4.0 cm. The right kidney measured 3.9 cm.

**INTERPRETED BY**

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

**Adrenal Glands**

The adrenal glands were uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measure d1.1 cm length x 0.31 cm at the caudal pole. The right adrenal gland measured 1.3 cm length x 0.26 cm at the caudal pole.

**IMAGING PERFORMED BY**

Kelly Reschny

**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.

**HOSPITAL NAME**

Chedoke AH

**REFERRING VET**

Dr. Heinen

**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 moderate, non-dependent, variably echogenic yet non-organized gallbladder debris. The cystic duct and common bile ducts were normal without evidence of dilation.

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**Gastrointestinal**

The stomach presented intact wall layering with a normal wall layer ratio. Minor retained chyme present.

**DATE**

1/6/22



**PATIENT** Sultan Weir  
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.

**SPECIES** *Pancreas*

Canine  
The pancreas base and right pancreatic limb were normal in size and contour with heterogeneous to mildly echogenic parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.

**BREED**

Papillon *Free Abdomen*

No overt lymphadenopathy or peritoneal effusion was present.

**SEX**

Neutered Male

**ULTRASONOGRAPHIC FINDINGS**

**AGE**

8 Years

- Mild dependent particulate sediment in the urinary bladder and mild non-dependent, particularly mineralized sand – no overt neoplastic or inflammatory criteria.
- Sonographically unremarkable residual prostate with minor non-specific prostatic urethral dilation
- Moderate gallbladder debris (non-mucocele)
- Heterogeneous to mildly echogenic pancreas base and right pancreatic limb

**WEIGHT**

4.26 kg

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**INTERPRETED BY**

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

The minor prostatic urethral dilation is non-specific yet not consistent with urethral obstruction. Sometimes this can be seen in dogs that are neutered later in life if clinically applicable. Possibility of emerging incontinence cannot be definitively excluded. Urine culture and sensitivity would be ideal in this patient, yet if currently on antibiotics, recheck urine culture and sensitivity 7 days post completion of current antibiotics would be appropriate.

**IMAGING PERFORMED BY**

Kelly Reschny

Ursodiol therapy may be considered if clinical evidence of cholestasis. The pancreas may represent age related or patient variant parenchymal remodeling owing to previous inflammation if clinically applicable, or possible low-grade to chronic pancreatitis and/or emerging fibrosis. Correlation with clinical history +/- spec cPL may be considered. Urinary diet may prove beneficial.

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**PATIENT**

Sultan Weir

**SPECIES**

Canine

**BREED**

Papillon

**SEX**

Neutered Male

**AGE**

8 Years

**WEIGHT**

4.26 kg

**INTERPRETED BY**

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Feline)

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PERFORMED BY**

Kelly Reschny

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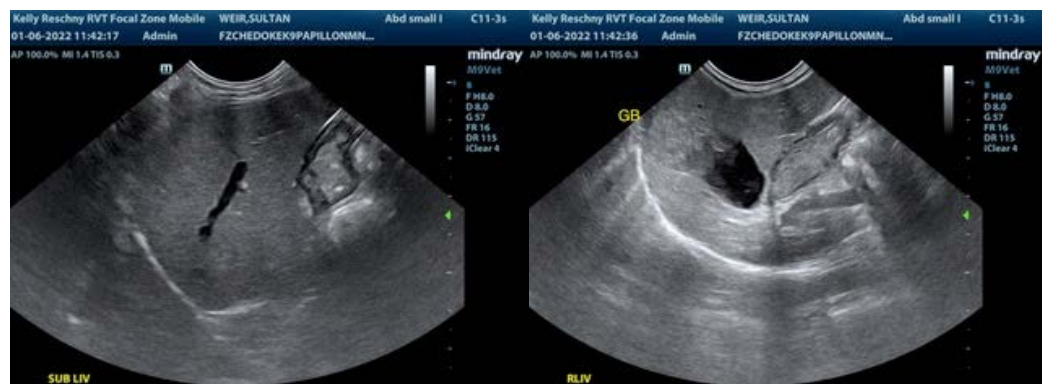
Dr. Heinen

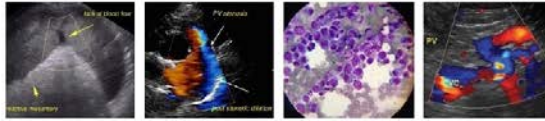
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**PATIENT**

Sultan Weir

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.

**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**

Papillon

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)  
info@SonoPath.com

**SEX**

Neutered Male

**AGE**

8 Years

**WEIGHT**

4.26 kg

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