



**PATIENT PRESENTING CLINICAL SIGNS**

Fischer Salmond Increase in ALP dilute urine with occult blood and crystals. There were no bacteria or white blood cells noted in the urine, so no evidence of a urinary tract infection at this time.

**SPECIES**

Canine

**BREED**

Cockapoo

**SEX**

Spayed Female

**AGE**

8 Years

**WEIGHT**

18.2 Pounds

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Jenna Walsh, CVT

**HOSPITAL NAME**

Pleasant Hill AH

**REFERRING VET**

Dr. Larsen

**INVOICE**

42088

**DATE**

10/13/22

Abnormal PE/Chem/CBC/UA Results: Alk Phosphatase 870 Urinalysis Specific Gravity 1.011 L pH 7.5 H Protein Negative e Glucose-Strip Negative e Ketones Negative e Bilirubin Negative 1+ Occult Blood 1+ e WBC None 0 3 HPF RBC None 0 3 HPF Casts None Seen 3 LPF Struvite (Triple P04) 0-1 HPF Amorphous Phospha >50 HPF Bacteria None Seen n HPF Squamous Epithelia 0-1 0 3 HPF Test Result Flag Normal Range Measure

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The urinary bladder was non-distended. No overt evidence of inflammatory neoplastic wall changes. Concurrent mild non-dependent sediment noted, which may indicate mild concurrent cellular debris/protein, crystalline debris, or mucus. Hyperechoic focal echogenicities with distal acoustic shadowing were present in the dependent lumen. Example of calculus measured 1.3 cm diameter. The urethra was normal to a depth of 2.-0 cm.

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 loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Pinpoint areas of medullary mineralization noted. The left kidney measured 4.6 cm. The right kidney measured 4.7 cm.

**Adrenal Glands**

The adrenal glands were uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.47 cm at the caudal pole. The left adrenal gland measured 0.39 cm at the cranial pole and 0.46 cm at the caudal pole.

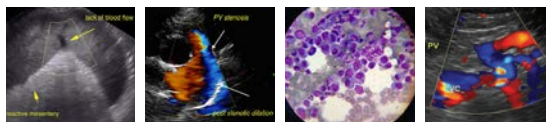
**Spleen**

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.

**Liver**

The liver was mildly enlarged. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non distended in size with mild non-dependent, echogenic debris. No evidence of gallbladder or peripheral gallbladder inflammation. The cystic duct and common bile ducts were normal without evidence of dilation.

**Gastrointestinal**



## PATIENT

Fischer Salmond

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained mild to moderate nonshadowing ingesta most consistent with post prandial presentation without signs of ileus, obstruction or foreign material.

## SPECIES

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.

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

## BREED

Cockapoo

## 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 was evident.

## SEX

Spayed Female

## PRIMARY FINDINGS

## AGE

8 Years

- Multiple cystic calculi in the urinary bladder
- Mild to early age related renal changes with pinpoint medullary mineral, no evidence of pyelonephritis.
- Vacuolar hepatopathy pattern – benign.
- Mild gallbladder debris

## WEIGHT

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(Canine and Feline)

## SECONDARY FINDINGS

- Gastric ingesta – suspect post-prandial presentation.

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Urine culture and sensitivity on sterile urine sample recommended. Cystotomy with stone analysis warranted. No overt evidence of a portosystemic vascular anomaly. No overt suspicion of primary adrenal disease, given the lack of reported clinical signs, i.e., PU/PD, polyphagia, etc. Hepatosupportive medications including Denamarin and Ursodiol may prove beneficial.

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## REFERRING VET

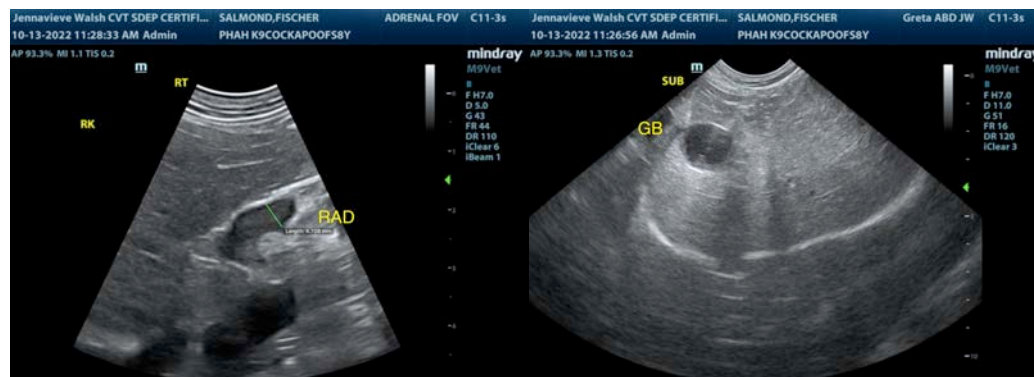
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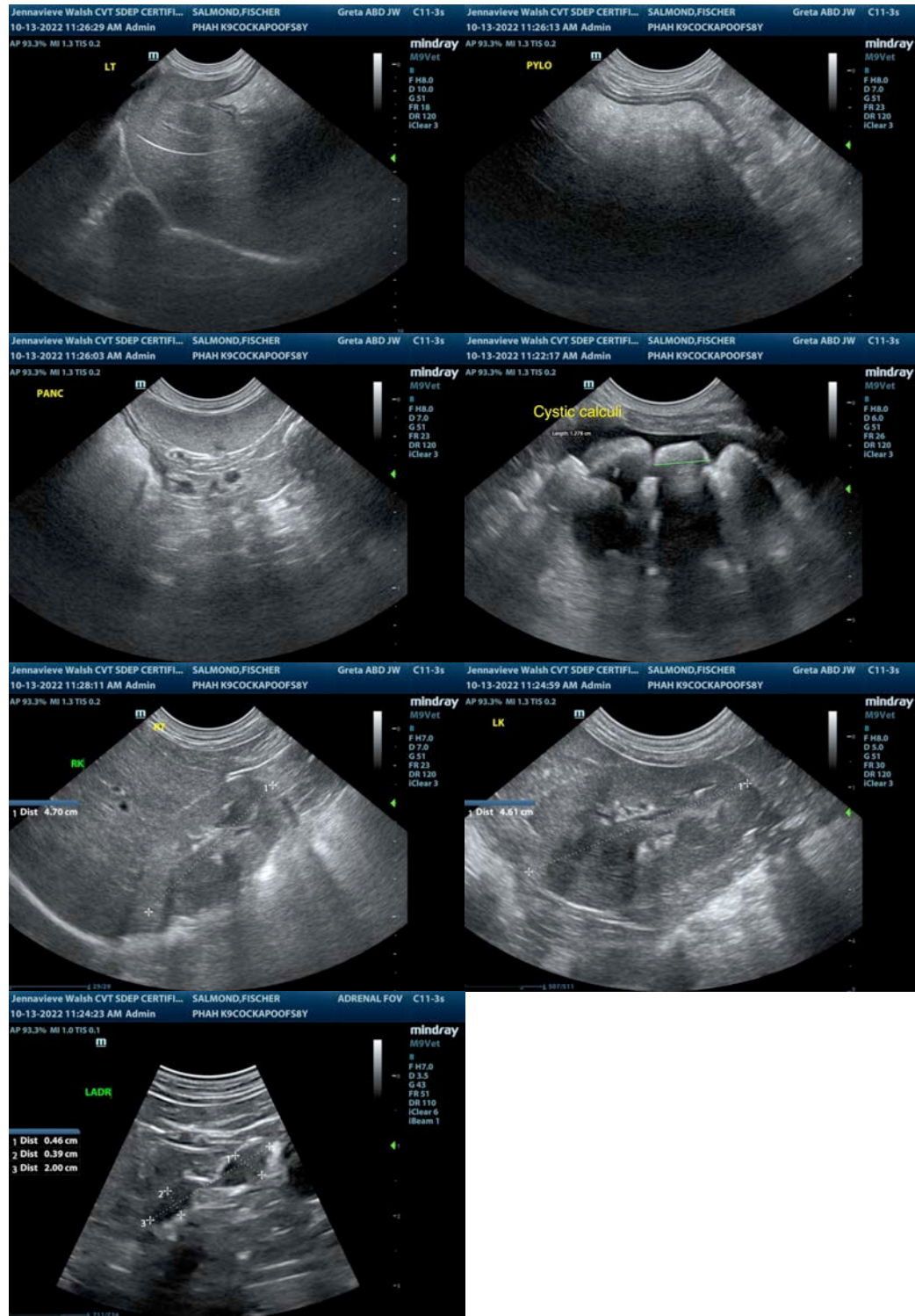
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**PATIENT**

Fischer Salmond

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**

Cockapoo

**R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)**

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info@SonoPath.com

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