



**PATIENT PRESENTING CLINICAL SIGNS**

Jett Leung History: Mild elevation of Liver enzymes on pre surgical blood work. History of uroliths  
Abnormal PE/Chem/CBC/UA Results: Mild elevation of liver enzymes

**SPECIES**

Canine

**BREED**

Bichon Hav x

**SEX**

Neutered Male

**AGE**

15 Years

**WEIGHT**

10.2 kg

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Dr. Belan

**HOSPITAL NAME**

Ramsey AC

**REFERRING VET**

Dr. Gupta

**INVOICE**

14466

**DATE**

3/24/22

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The urinary bladder was normal in size and tone. Moderate dependent mineral to small calculi were present. Additional areas of nonobstructive mineral to small calculi were present in the cystourethral junction, proximal to prostatic urethral lumen. The urethra was overall normal in size and structure to a depth of 3.0 cm. Pinpoint areas of potentially adhered mineral were noted around the apical and ventral apical luminal surface.

The residual prostate was without overt 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 moderate loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Pinpoint to focal medullary mineral present. The left kidney measured 5.0 cm in length. The right kidney measured 5.1 cm in length.

**Adrenal Glands**

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.53 cm width at the caudal pole and 0.51 cm width at the cranial pole.

The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.67 cm at the caudal pole.

**Spleen**

The spleen was normal in size and contour with generalized mild splenic parenchyma heterogeneity with intermittent discreet isoechoic to mildly hypoechoic nondisruptive nodules.

**Liver**

The liver was mildly enlarged. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild to benign parenchymal remodeling. The hepatic and portal vasculature were normal in appearance without signs of congestion.

The gallbladder was non distended in size with moderate nondependent to inspissated gallbladder debris. The gallbladder walls were overtly normal without evidence of inflammatory criteria. No evidence of peripheral gallbladder inflammation. Potential focal areas of emerging debris mineralization in the gallbladder. The cystic duct and common bile ducts were normal without evidence of dilation.

**Gastrointestinal**

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.

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.



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

Jett Leung **Pancreas**

**SPECIES** The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.

Canine **Free Abdomen**

No overt lymphadenopathy or peritoneal effusion was present.

**BREED** **ULTRASONOGRAPHIC FINDINGS**

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- Urinary bladder nonobstructive proximal to prostatic urethral mineral/small calculi
- Bilateral chronic renal changes with medullary mineralization
- Discreet, nondisruptive splenic nodules- subjectively benign, hyperplasia, hematopoiesis, incidental splenitis suspected.
- Hepatopathy, exhibiting parenchymal remodeling- subjectively benign. Vacuolar hepatopathy, inflammatory/immune mediated disease with benign parenchymal remodeling, hematopoiesis, nodular hyperplasia possible. No overt evidence of neoplastic criteria.
- Moderate, nondependent to inspissated gallbladder debris

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Sonographic monitoring of the splenic nodules for evidence of progression would be ideal.

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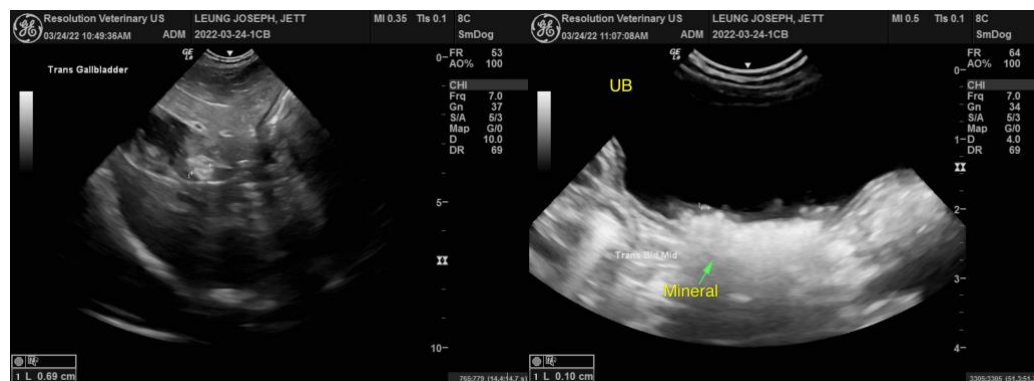
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**PATIENT**

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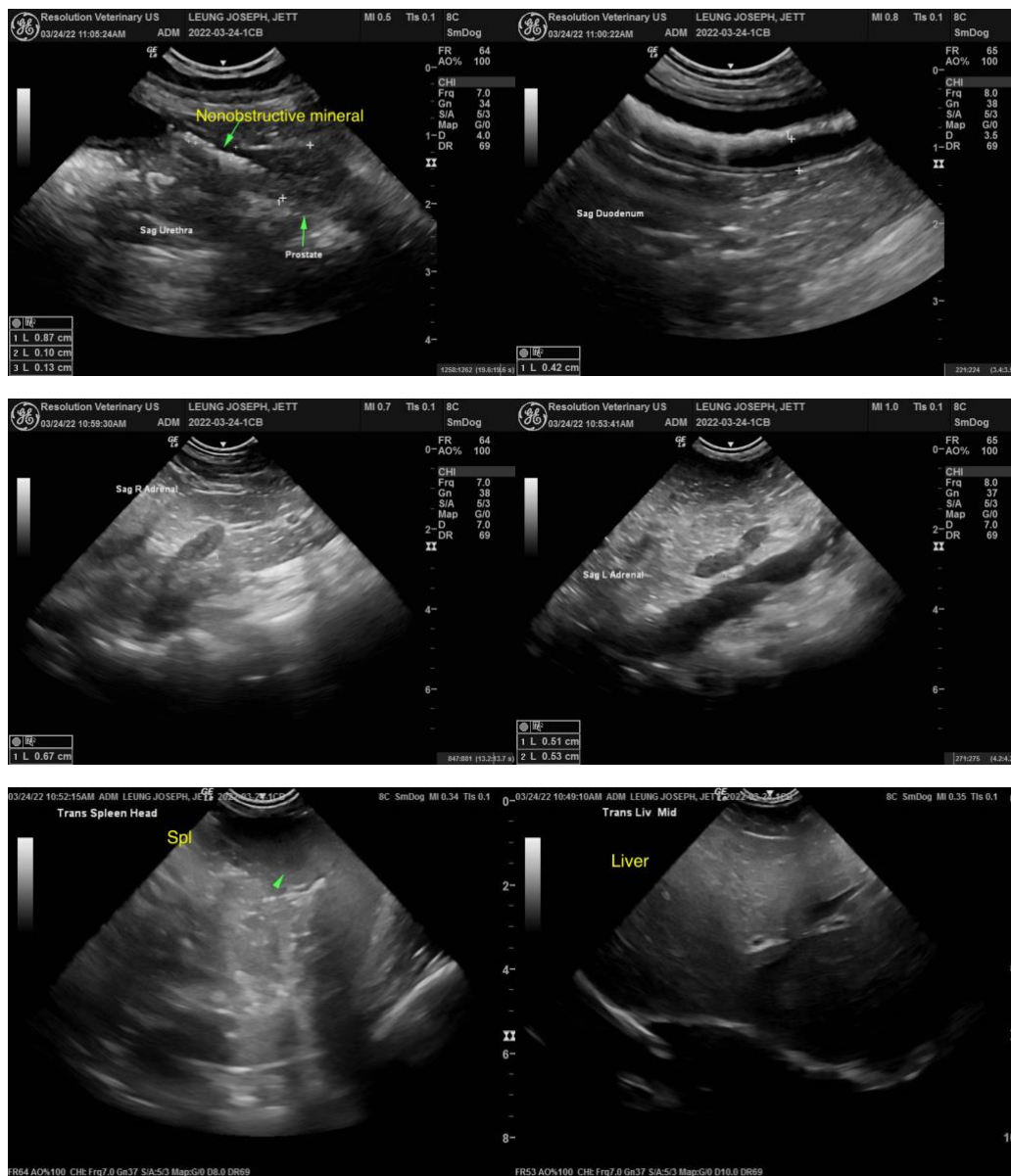
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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