



**PATIENT PRESENTING CLINICAL SIGNS**

Nova Fraser Transfer 12/16 for azotemia 1 week ago started showed signs of UTI (hx of pyelonephritis), urinating frequently and today small amount of blood/mucus. Inappetance x 48 hours. Presented to rDVM 12/15 12/15 BW rDVM labs BUN 117 Creat 7.2 P 9.9 HCT 30, USG 1.011 with rods present . ALP 320 other values wnl. was sent home with clavamox and galliprant. Based on labs, hospitalization recommended. On presentation painful and dehydrated.

Canine Abnormal PE/Chem/CBC/UA Results: 12/15 BW rDVM labs BUN 117 Creat 7.2 P 9.9 HCT 30, USG 1.011 with rods present . 12/16 presenting EPOC Creat 8.94 BUN 118 K 5.4

**BREED**

Chihuahua

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

**SEX**

Spayed Female

The **urinary bladder** and visible pelvic urethra were unremarkable for the level of repletion presented. The urine, however, did present some mildly echogenic debris consistent with mucous, exfoliated cells from renal or bladder origin, and/or blood clots as these echogenic changes can all present similarly. This is often related to urinary tract infection but may represent simple evidence of exfoliated debris or sterile inflammation. Cystocentesis, urinalysis, +/- culture would be recommended to rule out and define any UTI.

**AGE**

10 years

**WEIGHT**

7.9 lbs

The **kidneys** revealed non-specific, mildly increased cortical echogenicity. The kidneys were relatively normal in size. Microcystic cortical changes were noted. The right kidney measured 4.7 cm. The left kidney measured 4.58 cm. Blood flow to the kidneys was subjectively subnormal on color flow assessment. The kidneys appear approximately 50-70% compromised. However, I suspect inciting insult upon already chronic changes.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**Adrenal Glands**

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The left adrenal gland measured 0.66 cm. The right adrenal gland measured 0.91 cm.

**IMAGING PERFORMED BY**

Dr. Kalenius

**HOSPITAL NAME**

Wilvet Salem

**Spleen**

The **spleen** in this patient was mildly enlarged with uniform parenchyma and was folded upon itself cranially. This is a positional variant and is not pathological. There was no evidence of significant disease.

**REFERRING VET**

Dr. Kalenius

**Liver**

**INVOICE**

94700

The **liver** was uniformly swollen with minor, excessive gallbladder debris and over distension with dependent and suspended bile without evidence of overt mucocele formation. However, excessive sludge was present. The liver presented coarse architecture with mildly increased portal markings and subtle, mixed echogenic changes. This is consistent with vacuolar hepatopathy and some level of remodeling and history of inflammatory component. There was no overt suspicion of neoplasia.

**DATE**

12/17/21



**PATIENT**

**Gastrointestinal**

Nova Fraser

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

**SPECIES**

Canine

**BREED**

Chihuahua

**Pancreas**

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

**SEX**

Spayed Female

**ULTRASONOGRAPHIC FINDINGS**

Moderate degenerative renal changes, acute on chronic insult is suspected.

**AGE**

10 years

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**WEIGHT**

7.9 lbs

Leptospirosis titers, blood pressure measurements, full urinalysis, culture and sensitivity is warranted. 72 hour IV fluid protocol is warranted as well as reassessment of the clinical profile. The prognosis is guarded depending on response to therapy.

**INTERPRETED BY**

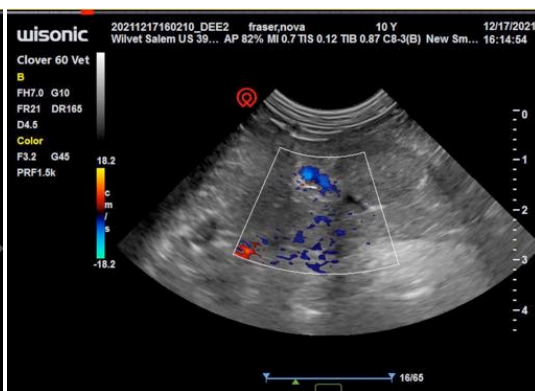
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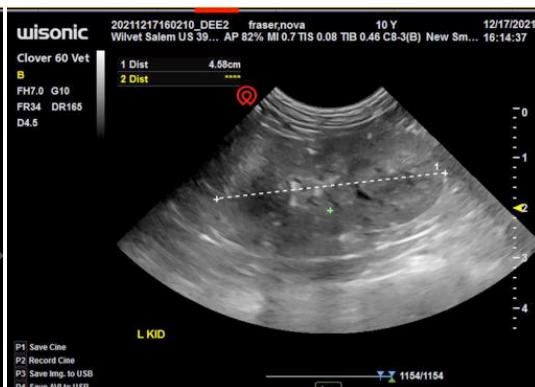
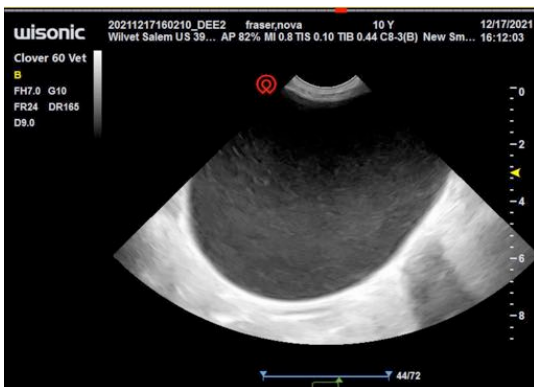
**HOSPITAL NAME**

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**DATE**

12/17/21



**PATIENT**

Nova Fraser

**SPECIES**

Canine

**BREED**

Chihuahua

**SEX**

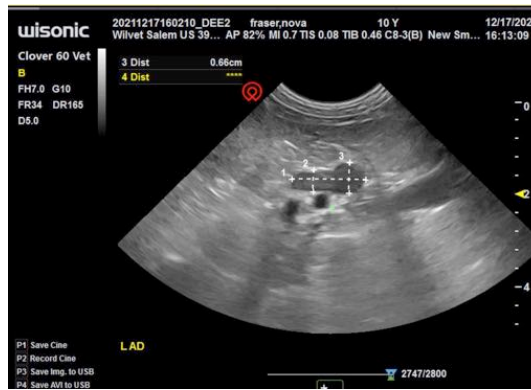
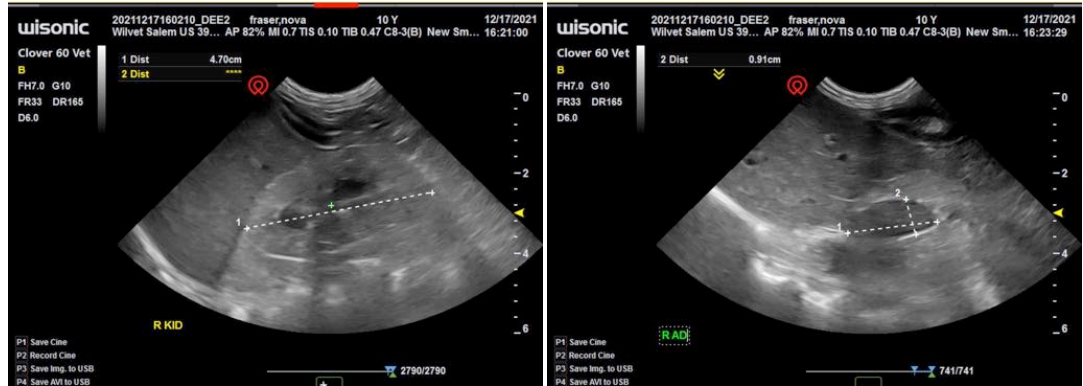
Spayed Female

**AGE**

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**WEIGHT**

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**DATE**

12/17/21

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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