



**PATIENT PRESENTING CLINICAL SIGNS**

Roscoe Kooiman Patient has been painful around abdomen and lumbar region, not eating as much as usual, lethargic, and limping on right hindlimb for 3 days. No history of trauma or toxin.  
Abnormal PE/Chem/CBC/UA Results: GGT: 155, ALP: 510, Glob: 3.9, TP: 7.8, WBC: 21.6, Neut: 16848, Bands: 864, Plt: 437. Abdominal radiographs are unremarkable.

**SPECIES**

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

**BREED**

Terrier

Urinary bladder is moderately distended with anechoic contents. No masses, inflammatory changes, echogenic sediment or cystoliths are observed. The urinary bladder, trigone and visible pelvic urethra are normal in thickness with a smooth mucosal surface.

Prostate is normal in size, echotexture and echogenicity for a neutered male.

**SEX**

Neutered Male

Right kidney is normal in size (4.3 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.

**AGE**

9 Years

Left kidney is normal in size (4.6 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.

**Adrenal Glands**

**WEIGHT**

21.9

Right adrenal gland is normal in size (0.57 cm at cranial pole and 0.40 cm at caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

Left adrenal gland is normal in size (0.38 cm at cranial pole and 0.44 cm at caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

**INTERPRETED BY**

Beth Johnson, DVM  
DACVIM

**Spleen**

Spleen is subjectively normal in size with a normal smooth capsular contour. Parenchyma is appropriately finely textured and homogenous with normal echogenicity relative to surrounding tissue (hyperechoic to liver). No focal nodules or masses are observed. Splenic vasculature appears normal.

**HOSPITAL NAME**

Lone Mountain AH

**Liver**

Liver is subjectively normal in size with normal smooth curvilinear peripheral contour. Parenchyma is appropriately hypoechoic to the spleen in echogenicity and appropriately mildly coarse and homogenous in echotexture. No focal lesions are observed. Visible vasculature and biliary tree appear normal without distension or congestion.

**REFERRING VET**

Dr. Jacquelyn Shoppa

GB is moderately distended with anechoic bile and gravity dependent echogenic sediment. The wall is smooth without visible thickening. There is no evidence of cystic or CBD dilation. There is no evidence of effusion or inflammation.

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**PATIENT** *Gastrointestinal*

Roscoe Kooiman The stomach wall is normal in thickness (canine < 0.5 cm and feline < 0.4 cm) and layering. The lumen of the stomach is mildly distended with echogenic non-shadowing luminal contents and gas consistent with normal ingesta. There is no evidence of obstruction, foreign material or infiltrative disease.

**SPECIES** Pyloric outflow tract appears patent.

Canine The visible small intestines are normal in wall thickness and layering (canine duodenum < 0.5 cm and feline duodenum < 0.4 cm; other < 0.3 cm). Small intestinal motility appears adequate (1-3 contractions per min). The lumen of the small intestine is empty with no evidence of obstruction, foreign material or infiltrative disease.

**BREED** foreign material or infiltrative disease.

Terrier The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.

**SEX** *Pancreas*

Neutered Male Pancreatic parenchyma is appropriately isoechoic to surrounding tissue. Visible capsule is smooth and normal in contour. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.

**AGE** *Free Abdomen*

9 Years There is no evidence of peritoneal effusion. There is no apparent lymphadenopathy.

**ULTRASONOGRAPHIC FINDINGS**

**WEIGHT** Gallbladder debris - Cholecystic debris is of unknown clinical significance. It can be seen with biliary stasis from fasting or illness. Cholecystic debris is not necessarily related to hepatobiliary disease. Echogenic bile is most commonly an incidental finding in dogs and should be interpreted in combination with clinical signs such as nausea, inappetence, cranial abdominal discomfort and/or laboratory changes such as increased ALP and/or increased Tbili.

21.9

**INTERPRETED BY**

Beth Johnson, DVM  
DACVIM

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Given this patient's reported abdominal pain and decreased appetite as well as increased ALP and leukocytosis combined with the gallbladder debris, recommendation include management of possible cholangitis with broad-spectrum antibiotics and Ursodiol as well as supportive care in the form of pain management, anti-nausea medications +/- appetite stimulants as needed with monitoring for improvement in clinical signs, laboratory changes, and/or ultrasound appearance. If management of cholangitis doesn't result in improvement in the pain, given the concurrent reported lumbar pain, recommendations include further neurologic assessment of the lumbar spine with an MRI.

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**PATIENT**

Roscoe Kooiman

**SPECIES**

Canine

**BREED**

Terrier

**SEX**

Neutered Male

**AGE**

9 Years

**WEIGHT**

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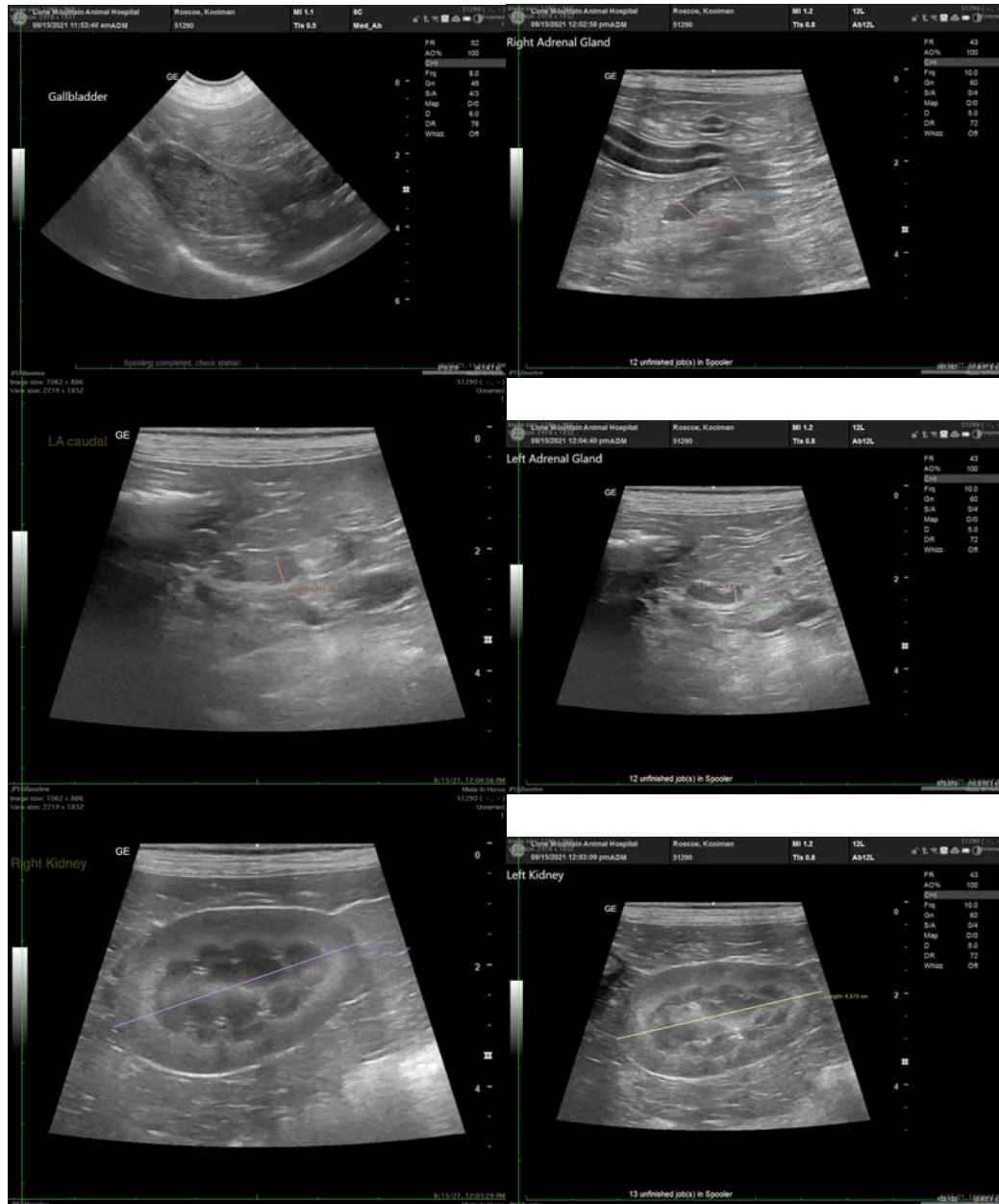
Dr. Jacquelyn Shoppa

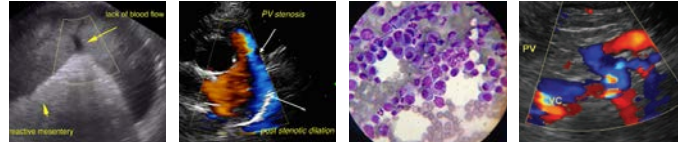
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**PATIENT**

Roscoe Kooiman

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.

**Beth Johnson, DVM, DACVIM**  
Beth.Johnson@sonopath.com

**BREED**

Terrier

**SEX**

Neutered Male

**AGE**

9 Years

**WEIGHT**

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