



PATIENT PRESENTING CLINICAL SIGNS

Ricky Joseph

SPECIES

Canine

BREED

Pomeranian Mix

SEX

Neutered male

AGE

8 years

WEIGHT

15.5 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Halbert

HOSPITAL NAME

Limestone VH

REFERRING VET

Dr. Halbert

INVOICE

92736

DATE

10/28/21

History: Patient came in for routine exam and recheck lab work to follow elevation in liver enzymes . 11/2020 Normal ACTH Stim. 10/2020 ALT 135, ALK PHOS 301 Chol 523 Triglycerides 1930, Precision PCL 269 WBC 15.9 Lymphocytes 5724 Urine SG 1037 Protein 3 + Blood 3 + RBC 21-50 UPC 1 No clinical signs, just recheck labs 10/18/21 Results Globulin 4.3 TP 7.7 Alk PHos 232 BUN 36 Creat 1.7 Triglycerides 1533 Precision PCL 167 WBC 33.8, Platelets 798, Neutrophils 19266, Lymphocytes 11830, Monocytes 2028. Pet did have a possible partial seizure 5 days ago and once a few months ago. Very brief , fine before and after. Lasted a few seconds. Urine pending. Bladder stones for several years. Did not dissolve with diet and urine Surgery never done Unsure why Ultrasound done today to look for cause of WBC count and diff Urine pending will be back tomorrow

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. Bladder stones were noted in this patient. . No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

The prostate was uniform and measured 1.0 cm. The pre and post prostatic urethra were unremarkable.

The **kidneys** presented a relatively uniform cortical hyperechogenicity when compared to the renal medulla, spleen and liver. No overt masses were noted. Corticomedullary definition was nebulous and the ratio favored the cortex slightly. The ureters were not visible and assumed to be normal. These changes are most consistent with chronic interstitial nephritis yet infiltrative disease could not be entirely ruled out without biopsy though neoplasia is not suspected. The left kidney measured 6.0 cm with multi-focal cortical cysts. There is a potential that one cyst at the cranial pole is an abscess. The right kidney measured 5.5 cm also revealed multi-focal cortical cysts.

Adrenal Glands

The left **adrenal gland** was mildly heterogenous and mildly enlarged measuring 0.7 cm. The right adrenal gland measured 0.6 cm at the cranial pole.

Spleen

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes was noted.

Liver

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Mild to moderate hyperechoic nodules consistent with lipogranulomas or hyperplasia were noted and non-disruptive. The liver also revealed an anechoic cyst in the left medial liver adjacent to the gallbladder. This is not pathological. Some age-related parenchymal remodeling



PATIENT

Ricky Joseph

was noted but likely not clinically significant at this time. Vascular and biliary tracts were of normal volume and no evidence of congestion was noted. The gallbladder presented some dependent debris with essentially normal contour. The cystic and common bile ducts were normal. No overt evidence of active inflammatory, infiltrative or regenerative pathology was noted but should be paired with current or past LE elevations regarding any clinical significance to this presentation. The hepatic lymph nodes were unremarkable.

SPECIES

Canine

BREED

Pomeranian Mix

Gastrointestinal

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.

SEX

Neutered male

Pancreas

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Some parenchymal remodeling, however, with mild deviation from curvilinear normalcy was observed. Pancreatic duct and capsular irregularities were present consistent with age related changes. If pain upon imaging (+ Murphy sign) was present or if the patient is focally painful in subxiphoid palpation then low-grade smoldering chronic pancreatitis should be suspected.

AGE

8 years

WEIGHT

15.5 lbs

ULTRASONOGRAPHIC FINDINGS

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Moderate, chronic degenerative renal changes with polycystic cortices and possible abscess of a cyst at the cranial pole of the left kidney.

Bladder stones.

IMAGING PERFORMED BY

Dr. Halbert

Polycystic liver with moderate degenerative changes.

Prominent adrenal glands.

Age related pancreatic changes.

HOSPITAL NAME

Limestone VH

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

REFERRING VET

Dr. Halbert

There was no overt evidence of neoplasia. Ultrasound-guided drainage of the cyst at the cranial pole of the left kidney could be considered as it may be harboring infection given the patient's history. Subxiphoid palpation is recommended to assess for pain-solicited response. If pain is noted low grade pancreatitis is suspected. Stabilization of the azotemia in this patient is warranted as well as cystotomy. At the time of surgery the left kidney can be examined and the cyst can be drained and cultured. There is no evidence of neoplasia. The kidneys appear 50-60% compromised. The elevated white count could be deriving from the urinary tract or possible underlying pancreatitis. Blood pressure measurements are warranted.

INVOICE

92736

DATE

10/28/21



PATIENT

Ricky Joseph

SPECIES

Canine

BREED

Pomeranian Mix

SEX

Neutered male

AGE

8 years

WEIGHT

15.5 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Halbert

HOSPITAL NAME

Limestone VH

REFERRING VET

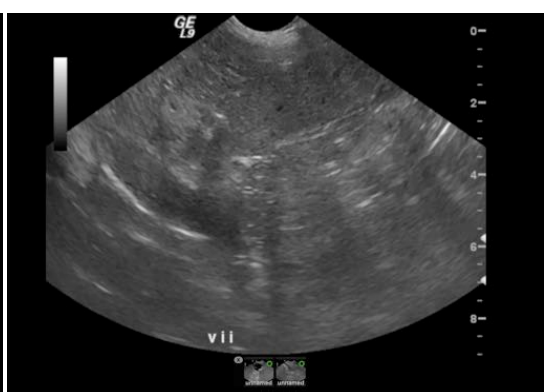
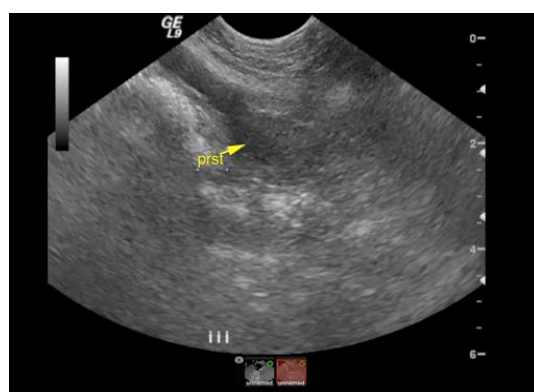
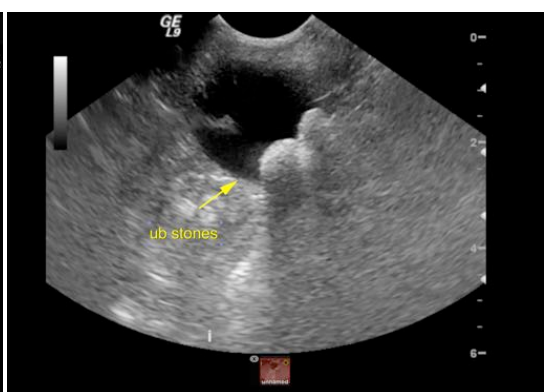
Dr. Halbert

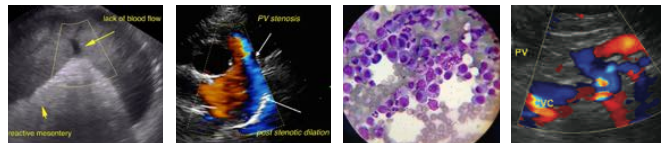
INVOICE

92736

DATE

10/28/21





PATIENT

Ricky Joseph

SPECIES

Canine

BREED

Pomeranian Mix

SEX

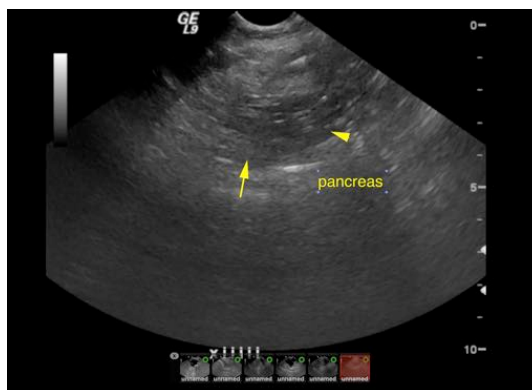
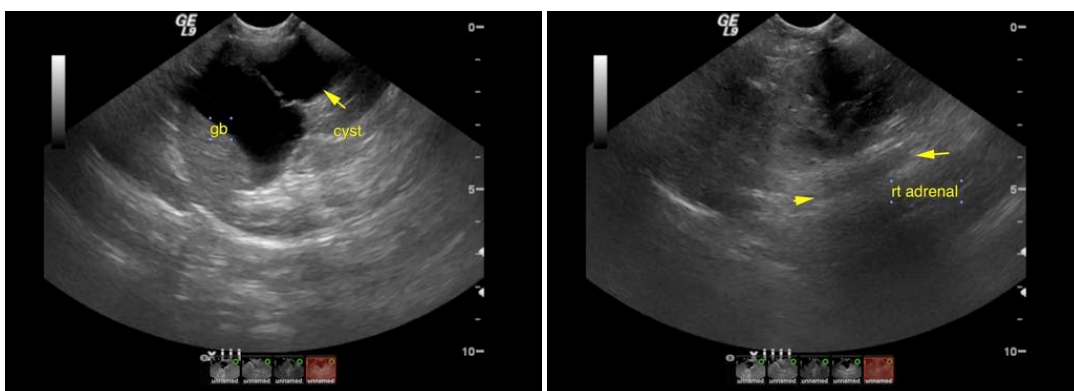
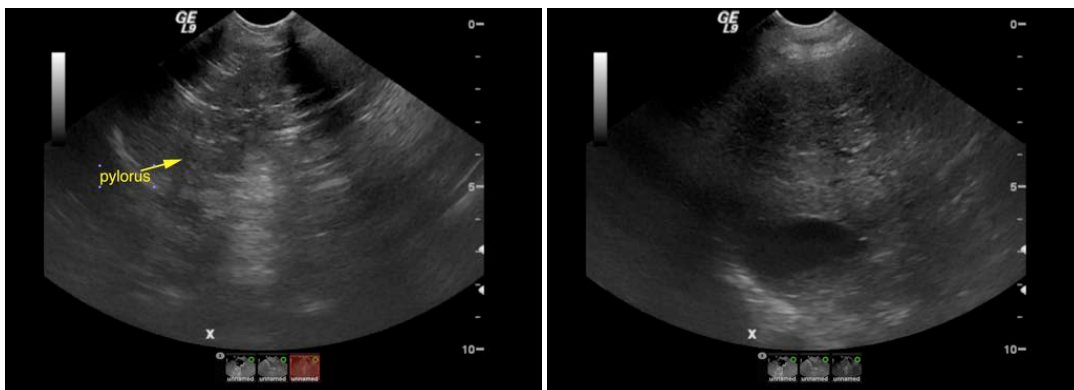
Neutered male

AGE

8 years

WEIGHT

15.5 lbs



INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Halbert

HOSPITAL NAME

Limestone VH

REFERRING VET

Dr. Halbert

INVOICE

92736

DATE

10/28/21

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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com
info@SonoPath.com