



PATIENT

Charlie Gibson

SPECIES

Canine

BREED

Shih Tzu

SEX

Neutered male

AGE

13 years

WEIGHT

19.5 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Olsen

HOSPITAL NAME

Limestone VH

REFERRING VET

Dr. Olsen

INVOICE

42405

DATE

11/8/22

PRESENTING CLINICAL SIGNS

History: History of: Diabetes: fairly well controlled On and off diarrhea for 1 year, responsive to metronidazole Chronic otitis with current flare up Chronic KCS OU, partially controlled Chronic cough: suspect tracheal collapse and/or cardiomegaly Grade 3/6 heart murmur Infected cyst on dorsal neck Thoracic radiographs 1 week ago concerning for pulmonary edema vs. atelectasis of lung lobe, recheck rads yesterday showed normal lungs. Gradual decrease in appetite over last couple months, but over the last 24 hours. R/o cause of decreased appetite and lethargy, r/o IBD, neoplasia, pancreatitis, other Abnormal PE/Chem/CBC/UA Results: Results from June 2022: TP 7.5, Glob 4.4, Glu 268, CBC WNL Current BW pending

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The pelvic urethra was imaged 2.0 cm beyond the cystourethral junction and appeared normal. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

The **kidneys** were normal in size and contour; however, a minor hyperechoic ring was noted at the corticomedullary junction. This is consistent with diabetic nephropathy. This is likely from glucosuria. However, assessment for proteinuria is also warranted. This is an idiopathic finding, but an expected finding in diabetic patients. The right kidney measured 5.0 cm with slight cortical mineralization noted in both kidneys and was non-obstructive.

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.

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** 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.



PATIENT

Gastrointestinal

Charlie Gibson

There was some residual chyme and gas noted in the **stomach**, yet not pathological. This is consistent with end post prandial presentation. Transit of chyme into the small intestine was normal. Curvilinear patterns were maintained throughout the GI tract. No evidence of pathology. 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

Pancreas

Shih Tzu

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.

SEX

Neutered male

AGE

ULTRASONOGRAPHIC FINDINGS

13 years

Benign abdomen.

WEIGHT

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

19.5 lbs

If Cushing's disease is suspected further imaging of the adrenal glands are warranted possibly under sedation. The cause of poor appetite and lethargy is unclear. Orthopedic disease should be considered such as spinal pain. Thoracic and CNS disease should also be considered; however, the abdomen appears fairly benign.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Olsen

HOSPITAL NAME

Limestone VH

REFERRING VET

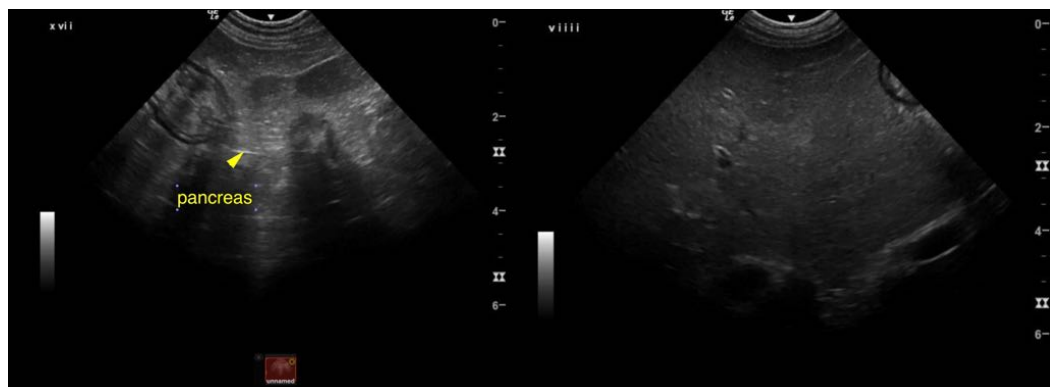
Dr. Olsen

INVOICE

42405

DATE

11/8/22





PATIENT

Charlie Gibson

SPECIES

Canine

BREED

Shih Tzu

SEX

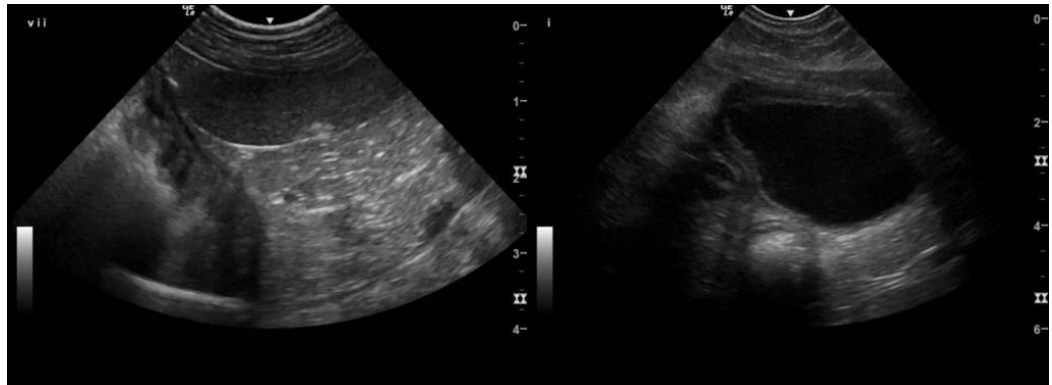
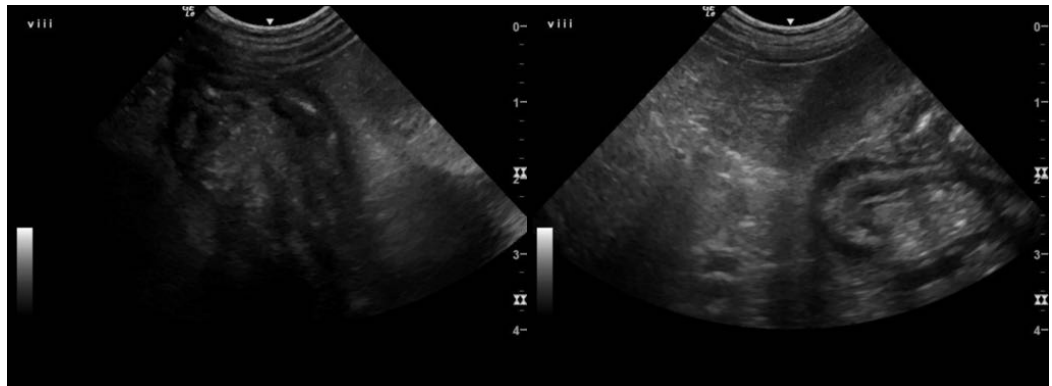
Neutered male

AGE

13 years

WEIGHT

19.5 lbs



INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Olsen

HOSPITAL NAME

Limestone VH

REFERRING VET

Dr. Olsen

INVOICE

42405

DATE

11/8/22

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.

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