



PATIENT

Higgins Lowe

SPECIES

Canine

BREED

Scottish Terrier

SEX

Neutered Male

AGE

5 Years 4 Months

WEIGHT

24.2 lbs

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

IMAGING PERFORMED BY

Dr. Lucas Budden

HOSPITAL NAME

Frontier Veterinary
Hospital

REFERRING VET

Dr. Lucas Budden

INVOICE

72683

DATE

12/18/25

PRESENTING CLINICAL SIGNS

Clinical signs: Chronic/progressive ALP elevation History: Presented for wellness exam on 11/21/25. Concern for ear infection. Treated with Claro in both ears. On wellness labs a persistent/chronic/progressive ALP elevation was noted. Ultrasound to further assess liver for reason for ALP elevation. Current medications: i/d low fat food (history of intermittent vomiting that resolved on i/d food, switched to low fat due to overweight body condition) Apoquel as needed trazodone/gabapentin to facilitate exam acepromazine and hydromorphone as premed for anesthesia for dental

Abnormal PE/Chem/CBC/UA Results: Physical exam: BCS 7/9, mild dental tartar, mild waxy debris in both ears, normal exam otherwise Lab work: 11/21/25 cbc/chem/accuplex/fecal ALP high 220 (prev 154 on 1/3/24) Remainder of CBC/CHEM normal Acu Plex all negative Fecal negative

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder is moderately distended with anechoic urine. The Bladder wall, trigone, ureteral papillae and visible urethra (to a depth of 2cm) appear normal with no evidence of wall thickening, mucosal irregularities, masses or cystic calculi.

The prostate is normal in size (1.01 cm) and shape for this neutered male dog. The parenchyma is homogenous and the external margins are smooth. The prostatic urethra appears normal with no evidence of irregularity, invasion, mass effect or calculi.

The left kidney has a normal shape and size (5.55 cm). Overall echogenicity is normal with adequate corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of focal perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

The right kidney has a normal shape and size (5.41 cm). Overall echogenicity is normal with adequate corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of focal perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

Adrenal Glands

The left adrenal gland is normal in size measuring 0.41 cm at the cranial pole and 0.51 cm at the caudal pole. It is observed in its normal position cranial to the left renal artery. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

The right adrenal gland is normal in size measuring 0.44 cm at the caudal pole. It is observed in its normal position between the cranial aspect of the right kidney and the caudal vena cava. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

Spleen

The spleen is subjectively normal in size (1.8 cm), echotexture is homogenous, and the splenic capsule is smooth with no irregularities. The blood flow through the hilus and splenic parenchyma appears normal. No focal parenchymal abnormalities are visualized.



PATIENT

Higgins Lowe

SPECIES

Canine

BREED

Scottish Terrier

SEX

Neutered Male

AGE

5 Years 4 Months

WEIGHT

24.2 lbs

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

IMAGING PERFORMED BY

Dr. Lucas Budden

HOSPITAL NAME

Frontier Veterinary
Hospital

REFERRING VET

Dr. Lucas Budden

INVOICE

72683

DATE

12/18/25

Liver

The liver is subjectively normal in size, and echogenicity with smooth peripheral margins. The parenchyma is mildly heterogenous in echotexture with subtle, indistinct focal mottling. The visible portions of the vasculature and biliary tract appear normal. No focal nodules or cystic lesions are observed.

The gall bladder lumen is moderately distended. The wall of the gall bladder is not thickened and has a smooth mucosal surface. Luminal contents are mild and likely incidental at this time. The cystic and common bile ducts are normal/not visible.

Gastrointestinal

The stomach contains minimal luminal contents. It measures at a normal thickness of <0.7cm with some variability due to the presence of rugal folds. The distinction of the gastric wall layers is adequate and there is no impression of reduced peristaltic activity. No masses or focal lesions were observed.

The visualized areas of duodenum, jejunum and ileum have a relatively uniform diameter with minimal fluid distension. Wall thickness is normal. Bowel loops follow a curvilinear path with distinct wall layering maintaining the typical 1:3 muscularis:mucosa layer ratio. Duodenum wall measures 0.46 cm. Jejunum wall measures 0.36 cm. Visualized peristalsis appears appropriate. There were no focal lesions consistent with obstruction or a mass effect observed.

Sections of colon are visualized with formed fecal material and gas shadowing distally. There is no observed focal or generalized colon wall thickening or loss of layering.

Pancreas

The pancreas is normal and isoechoic to surrounding mesentery. There is no evidence of nodules or cystic lesions. There is no evidence of regional mesenteric inflammation or fluid.

Free Abdomen

Evaluation of the peritoneal cavity did not reveal any evidence of effusion, or subjective lymphadenomegaly. The Medial iliac nodes appear normal and there was no evidence of a caudal aortic thrombus at the bifurcation. The omentum is of normal uniform echogenicity.

ULTRASONOGRAPHIC FINDINGS

- Mildly heterogeneous liver.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The liver appears mildly heterogeneous. This is a non-specific finding. Given the breed and the ALT elevation, an early vacuolar hepatopathy would be suspected. If further evaluation is desired, consider a liver function test +/- a fine needle aspirate of the liver.



PATIENT

Higgins Lowe

SPECIES

Canine

BREED

Scottish Terrier

SEX

Neutered Male

AGE

5 Years 4 Months

WEIGHT

24.2 lbs

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

**IMAGING
PERFORMED BY**

Dr. Lucas Budden

HOSPITAL NAME

Frontier Veterinary
Hospital

REFERRING VET

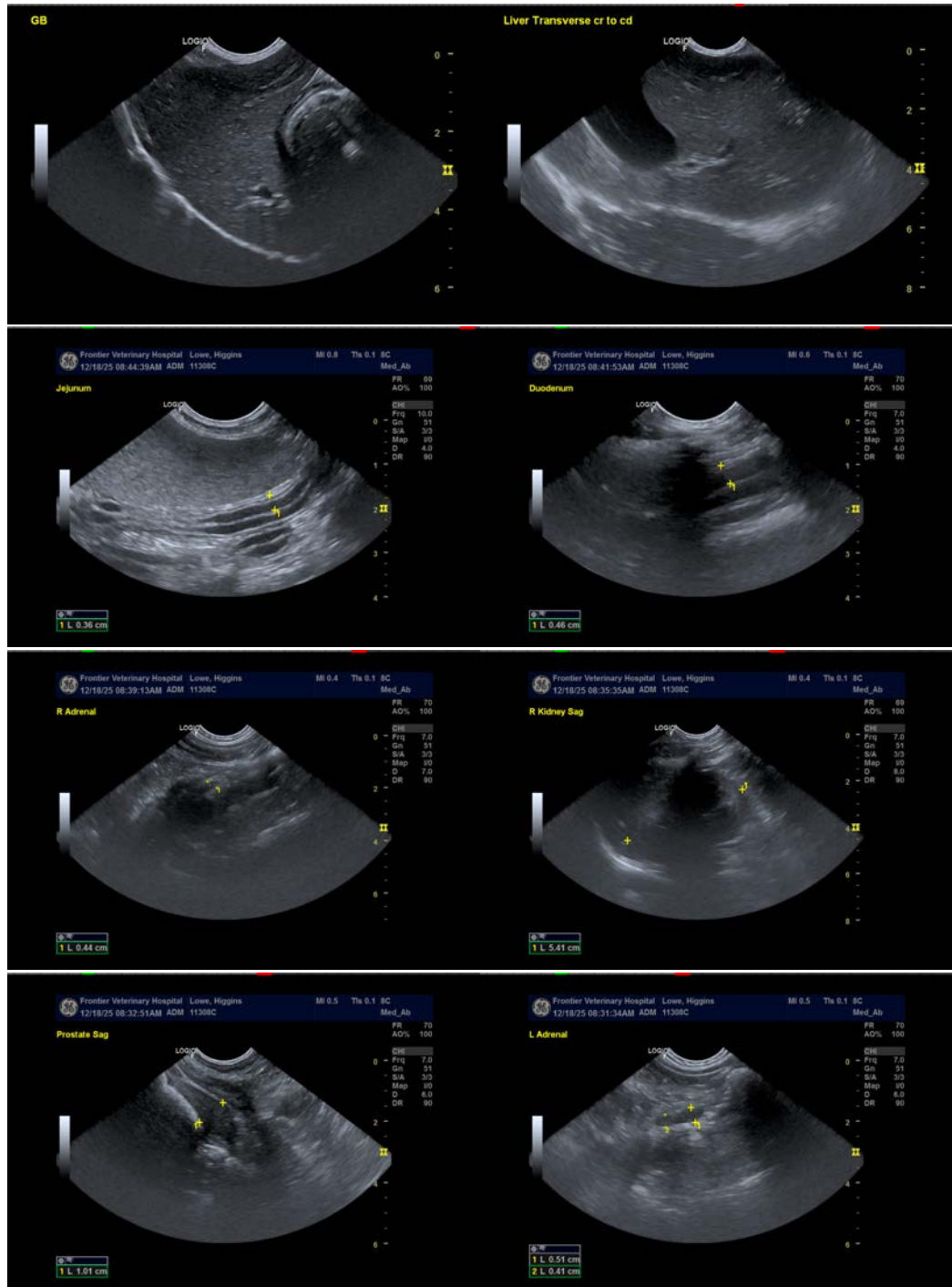
Dr. Lucas Budden

INVOICE

72683

DATE

12/18/25





PATIENT

Higgins Lowe

SPECIES

Canine

BREED

Scottish Terrier

SEX

Neutered Male

AGE

5 Years 4 Months

WEIGHT

24.2 lbs

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

IMAGING PERFORMED BY

Dr. Lucas Budden

HOSPITAL NAME

Frontier Veterinary
Hospital

REFERRING VET

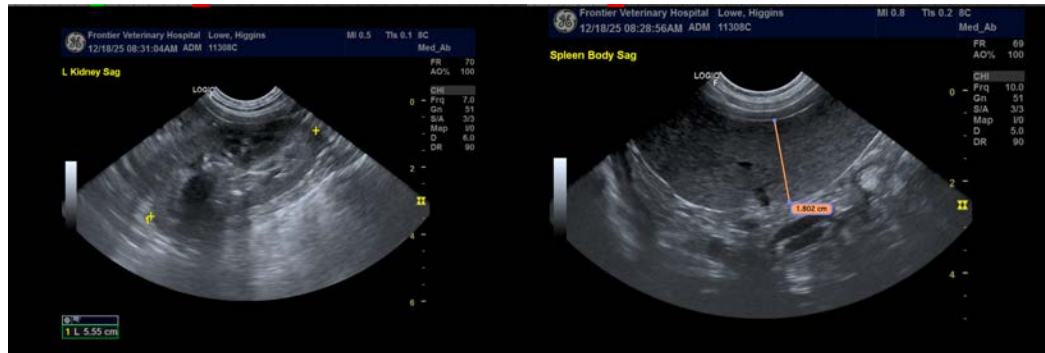
Dr. Lucas Budden

INVOICE

72683

DATE

12/18/25



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.

Kathleen Sennello DVM,MS, Diplomate ACVIM (Small animal Internal Medicine)

info@sonopath.com