



PATIENT

Oliver Horrigan

SPECIES

Canine

BREED

Chihuahua Mix

SEX

FS

AGE

10

WEIGHT

21lb

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Brita Kiffney

HOSPITAL NAME

Northshore Veterinary
Hospital

REFERRING VET

Brita Kiffney

INVOICE

24007

DATE

02/26/2026

PRESENTING CLINICAL SIGNS

Oliver is owned by a LVT who works here, and he has grade 4/6 systolic murmur. His echo on Tuesday revealed an abnormality in his gallbladder

Abnormal PE/Chem/CBC/UA Results: obese, normal cbc chem : mild increase in ALP 180

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder was mildly distended in size with normal tone. The trigone, cystourethral junction, and visible pelvic urethra exhibited normal thickness and tone. Anechoic urine was present in the lumen with no evidence of urine/lumen sediment, mineral, or calculi. The ureteral papillae were normal. The ureters were not visible, which is normal. No evidence of inflammatory or neoplastic changes was noted.

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and mild loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 4.3 cm in length. The right kidney measured 4.8 cm in length.

The area of the aortic trifurcation was free of pathology.

The residual prostate appeared normal and free of pathology.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.54 cm width at the caudal pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.58 cm width at the caudal pole.

Spleen

The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted.

Liver/Gallbladder

The liver presented subjectively mildly enlarged in size. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with mild congealed possibly adhered non-mineralized gallbladder debris in the cranial lumen, measuring ~ 1.2 cm in diameter. The cystic and common bile ducts were normal.

Gastrointestinal



PATIENT

Oliver Horrigan

SPECIES

Canine

BREED

Chihuahua Mix

SEX

FS

AGE

10

WEIGHT

21lb

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction or foreign material.

The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of mechanical/metabolic ileus, obstruction or foreign material.

Normal visible colon wall layers were present with apparent formed feces in lumen.

Pancreas

The parenchyma of the left limb, body and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease was evident.

Free Abdomen

No omental masses, overt lymphadenopathy or peritoneal effusion was present.

ULTRASONOGRAPHIC FINDINGS

Primary

- Mild hepatomegaly- consistent with benign criteria and vacuolar /cholestatic hepatopathy pattern
- Mild congealed possibly adhered gallbladder debris, minor potential for gallbladder polyp
- Age-related renal changes
- Normal adrenal glands

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No evidence of significant visceral, specifically hepatobiliary pathology. Hepatosupportive medications including Denamarin and ursodiol with sonographic monitoring of the gallbladder debris is recommended. No overt evidence of adrenal pathology as a contributing factor. Adrenal screening could be considered if clinical signs consistent with Cushing syndrome are non-reported or arise.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Brita Kiffney

HOSPITAL NAME

Northshore Veterinary
Hospital

REFERRING VET

Brita Kiffney

INVOICE 24007

DATE
02/26/2026



PATIENT

Oliver Horrigan

SPECIES

Canine

BREED

Chihuahua Mix

SEX

FS

AGE

10

WEIGHT

21lb

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Brita Kiffney

HOSPITAL NAME

Northshore Veterinary
Hospital

REFERRING VET

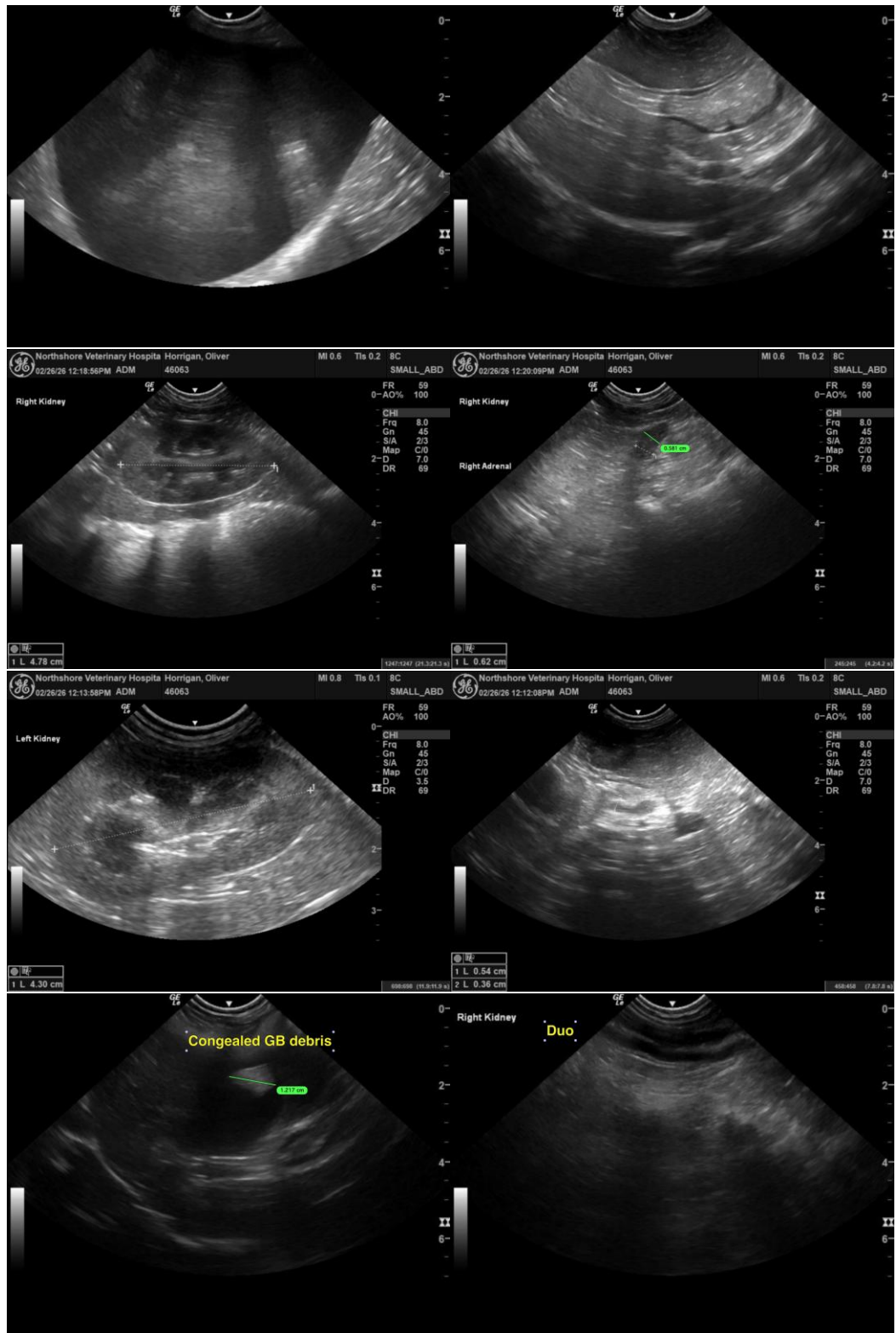
Brita Kiffney

INVOICE

24007

DATE

02/26/2026





PATIENT

Oliver Horrigan

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.

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.

BREED

Chihuahua Mix

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)

info@sonopath.com

SEX

FS

AGE

10

WEIGHT

21lb

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Brita Kiffney

HOSPITAL NAME

Northshore Veterinary
Hospital

REFERRING VET

Brita Kiffney

INVOICE

24007

DATE

02/26/2026