



PATIENT

Abe Holderness

SPECIES

Canine

BREED

West Highland Terrier

SEX

Neutered male

AGE

12 years

WEIGHT

17.2 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Gudrun Gunther

HOSPITAL NAME

New Frontier Animal
Medical Center

REFERRING VET

Dr. Gunther

INVOICE

69392

DATE

12/17/25

PRESENTING CLINICAL SIGNS

History: Was scheduled for mass removal today (sebaceous adenomas). Has a new heart murmur and a new elevation ALT. He has a history of recurrent pancreatitis. He is asymptomatic at this time.
Abnormal PE/Chem/CBC/UA Results: 12/17/25 - CHEM - ALT 477 (10-125) ALP 1823 (23-212)
5/7/2025 CHEM - ALT 85 ALP 884 GGT/Tbili/Cholesterol WNL CBC - WNL

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 3.0 cm beyond the cystourethral junction and appeared normal. The ureters were not visible which is normal. A minor amount of suspended debris was noted. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for this age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. Minor, microcystic cortical changes were noted in the kidneys. The right kidney measured 5.47 cm. The left kidney measured 4.84 cm.

The residual **prostate** was uniform and measured 0.8 cm.

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. The right adrenal gland measured 2.02 x 1.23 cm at the cranial pole and 0.64 cm at the caudal pole. The left adrenal gland measured 1.96 x 0.63 cm at the cranial pole and 0.67 cm at the caudal 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.



PATIENT

Abe Holderness

SPECIES

Canine

BREED

West Highland Terrier

SEX

Neutered male

AGE

12 years

WEIGHT

17.2 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Gudrun Gunther

HOSPITAL NAME

New Frontier Animal
Medical Center

REFERRING VET

Dr. Gunther

INVOICE

69392

DATE

12/17/25

Liver

The **liver** revealed coarse architecture with mild, generalized enlargement and isoechoic nodular changes. Slightly increased portal markings were noted. The gallbladder and common bile duct were unremarkable.

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.

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.

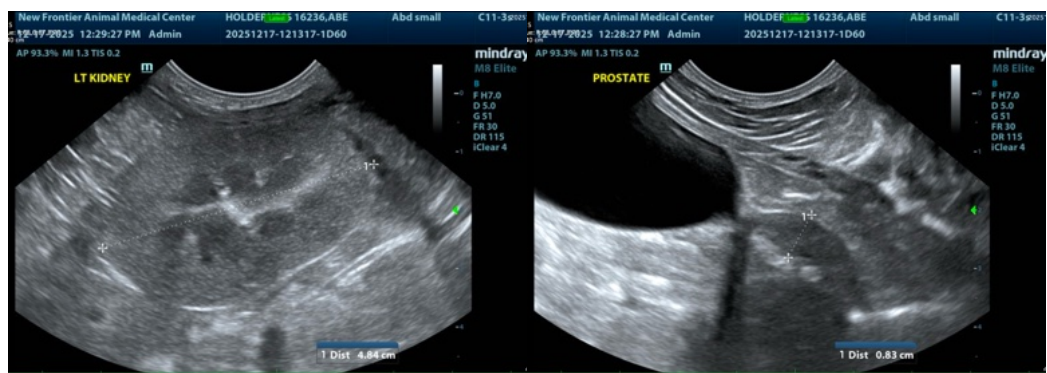
ULTRASONOGRAPHIC FINDINGS

Non-specific, chronic inflammatory hepatopathy.

Otherwise, age related abdominal changes.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

FNA of the liver is indicated. Leptospirosis titers are indicated as well as bile acid profile. There was no evidence or suspicion of neoplasia.





PATIENT

Abe Holderness

SPECIES

Canine

BREED

West Highland Terrier

SEX

Neutered male

AGE

12 years

WEIGHT

17.2 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Gudrun Gunther

HOSPITAL NAME

New Frontier Animal
Medical Center

REFERRING VET

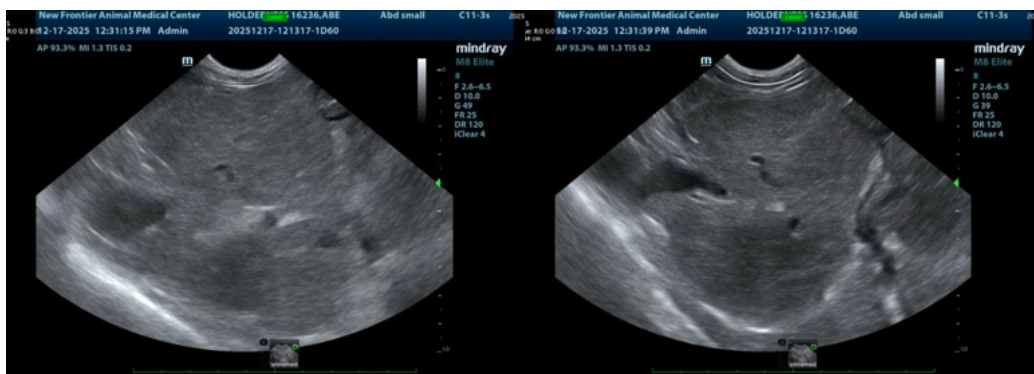
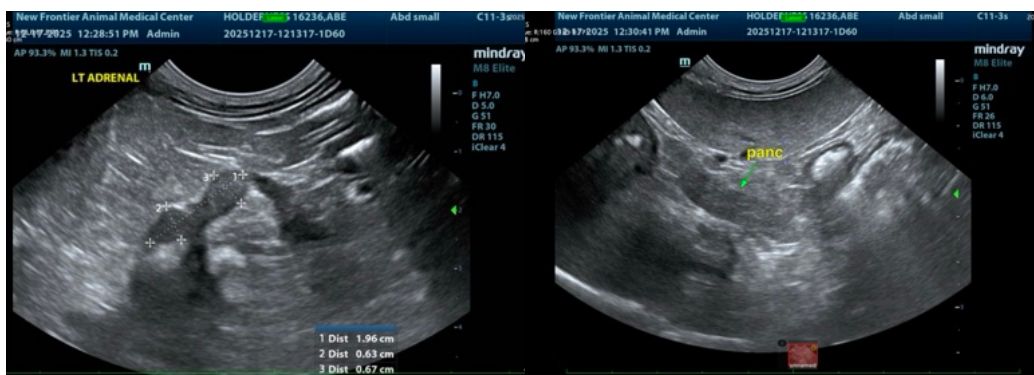
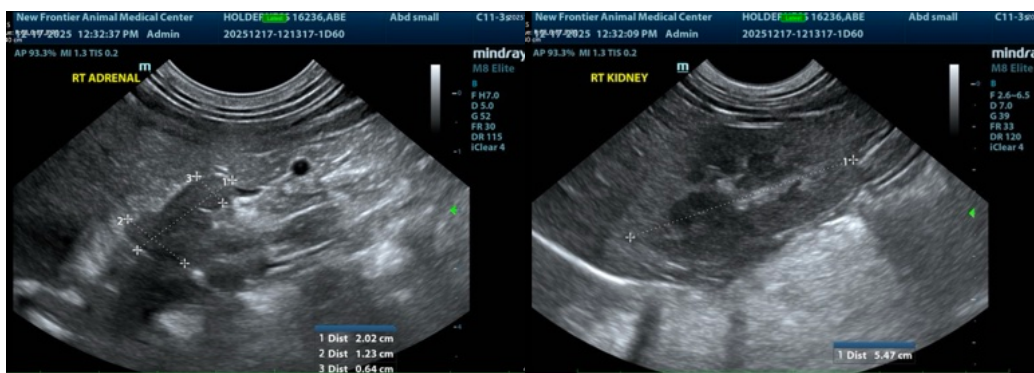
Dr. Gunther

INVOICE

69392

DATE

12/17/25



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.

Eric Lindquist, DMV, DABVP (CFM), Cert. IVUSS, CEO of SonoPath.com

info@SonoPath.com