

PATIENT

Ramzes Northrup

SPECIES

Canine

BREED

Cairn Terrier

SEX

Neutered Male

AGE

13 Years

WEIGHT

6.2 kg

INTERPRETED BY

Greg Kuhlman, DVM,
DACVIM (SAIM)

IMAGING PERFORMED BY

Amanda Stewart

HOSPITAL NAME

Governors Road
Animal Hospital

REFERRING VET

Dr. Dogar

INVOICE

16504

DATE

05/25/26

PRESENTING CLINICAL SIGNS

QAR, 110 HR, 25 RR, heart/lungs normal, muzzled - unable to do a detailed oral exam since nervous/aggressive, normal hydration/abdominal palpation, no obvious organomegaly/abnormality or pain upon palpation, normal E/E/N/oral cavity, normal LN/coat/gait etc. Some gas in loops of GI tract, no obvious pain on palpation. Current Medications: Aventi Liver Complete

Abnormal PE/Chem/CBC/UA Results: elevated total proteins albumen and globulins mild elevation in ALT mild decrease in ALKP moderate elevation in TBIL. Normal otherwise. Primary Question to Be Answered in This Exam liver disease, gall bladder vs others

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The bladder is moderately distended with anechoic urine. No uroliths are seen. The bladder wall is normal in appearance and thickness. No masses are seen.

Kidneys are overall normal in size and shape with smooth peripheral margination. A normal 1:3 cortex to medulla ratio is maintained. The medulla and cortices are uniform in texture with some mild increased cortical echogenicity and mild loss of corticomedullary distinction, expected in this age patient. There is no evidence of pyelectasia, mineral or infarcts observed. The left kidney measures 3.5 cm. The right kidney measures 3.4 cm.

Adrenal Glands

The left adrenal gland presents small in size and flattened. The cranial pole measures 2.9 mm and the caudal pole measures 2.9 mm.

The right adrenal gland presents normal shape and homogenous parenchyma. The phrenic vasculature is unremarkable. The cranial pole measures 6.1 mm and the caudal pole measures 10.0 mm.

Spleen

The spleen is normal in size, shape, margination and echogenicity. No masses are seen.

Liver

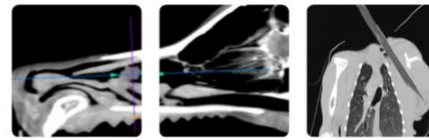
The liver presents normal size and shape with smooth lobar margins. The parenchyma has normal echogenicity with normal echotexture. No focal lesions are seen. Intrahepatic bile ducts are normal. Normal vascular pattern.

Moderate aggregating gallbladder debris is present. No evidence of gallbladder obstruction is seen at this time. Given the patient's lab work, these findings are most likely clinically incidental.

Gastrointestinal

The stomach and intestines have normal wall layering and thickness. Colon contains normal contents with normal wall thickness.

Pancreas



PATIENT

The pancreas is not clearly visualized on this scan.

Ramzes Northrup

Free Abdomen

SPECIES

There are no enlarged abdominal lymph nodes seen on this exam. No free abdominal fluid is seen.

Canine

ULTRASONOGRAPHIC FINDINGS

BREED

- Age-related renal changes.
- Small flattened left adrenal gland.
- Moderate gallbladder debris.

Cairn Terrier

SEX

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Neutered Male

Given that the left adrenal is diffusely small, recommend screening for Addison's disease or hyperadrenocorticism via ACTH stimulation test.

AGE

No obvious cause for the patient's elevated bilirubin and mild ALT elevation seen on this exam. Consider possible pre-hepatic cause for the patient's elevated bilirubin or recommend rechecking bilirubin to ensure that it was not a spurious result.

13 Years

WEIGHT

If necessary, consider sedating patient more deeply and rechecking to determine if possible pancreatic inflammation may be causing some extrahepatic biliary duct obstruction and causing elevated bilirubin, or alternatively, consider submitting a cPLI to determine if pancreatic inflammation may be present or not that may be the cause of the elevated bilirubin and mildly elevated ALT.

6.2 kg

INTERPRETED BY

Greg Kuhlman, DVM,
 DACVIM (SAIM)

IMAGING PERFORMED BY

Amanda Stewart

HOSPITAL NAME

Governors Road
 Animal Hospital

REFERRING VET

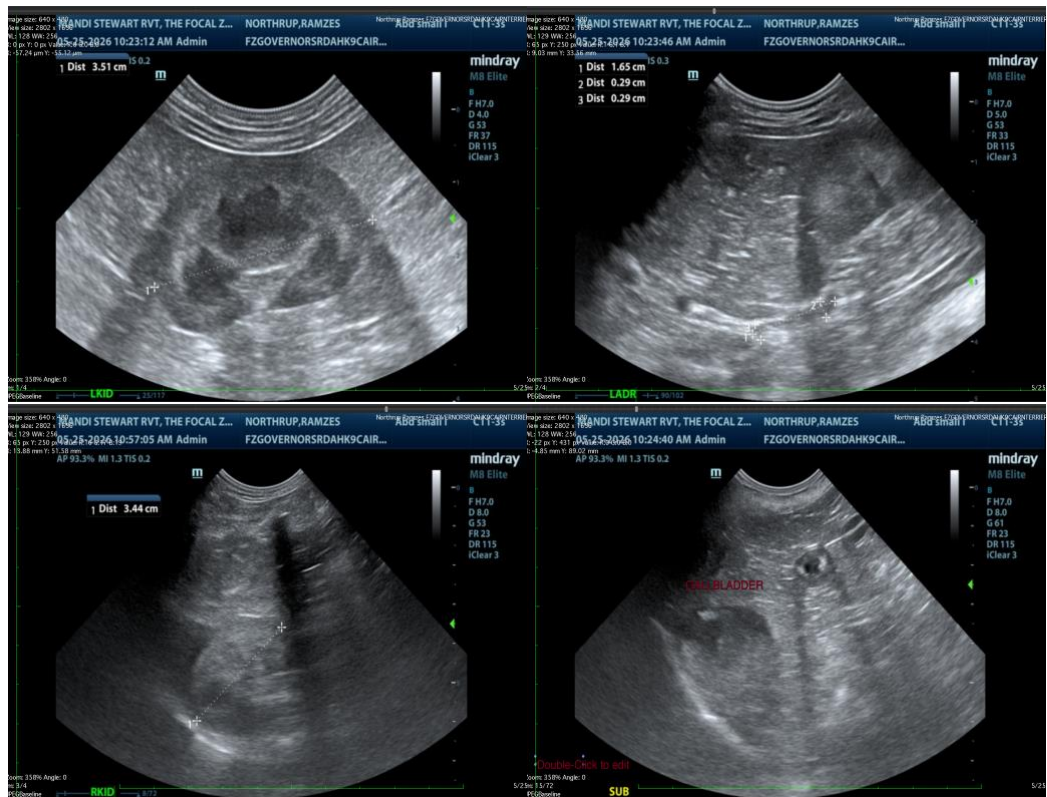
Dr. Dogar

INVOICE

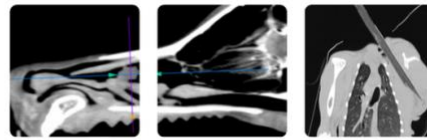
16504

DATE

05/25/26



The information and recommendations provided are based on the images presented by the referring



PATIENT

Ramzes Northrup

SPECIES

Canine

BREED

Cairn Terrier

SEX

Neutered Male

AGE

13 Years

WEIGHT

6.2 kg

INTERPRETED BY

Greg Kuhlman, DVM,
DACVIM (SAIM)

**IMAGING
PERFORMED BY**

Amanda Stewart

HOSPITAL NAME

Governors Road
Animal Hospital

REFERRING VET

Dr. Dogar

INVOICE

16504

DATE

05/25/26

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.

Greg Kuhlman, DVM, DACVIM (SAIM)
Veterinary Internal Medicine Specialist
info@SonoPath.com