



PATIENT PRESENTING CLINICAL SIGNS

Rhus Knudsen Panting, gagging. Na:K 35
 Medication: Cerenia, FortiFlora, Metronidazole

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine *Urinary System*

BREED The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 5 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted.

SEX The prostate was mildly enlarged in size with intact, symmetrical capsule contour. The margins of the gland were intact and able to be differentiated from the surrounding tissue. The prostatic parenchyma was mildly echogenic to heteroechoic without parenchymal mineralization. The prostate measured 3.7 cm in diameter. Overall prostatic presentation for a middle aged intact canine. No evidence of prostatitis. The bilateral testicles presented sonographically normal.

AGE The area of the aortic trifurcation was free of pathology.

WEIGHT Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 8.2 cm in length. The right kidney measured 7.9 cm in length.

INTERPRETED BY Adrenal Glands

R. McKenzie Daniel, DVM, DABVP (Canine and Feline) The left adrenal gland was indistinctly visualized with no overt pathology. The left adrenal gland measured 0.60 cm width at the caudal pole. The right adrenal gland exhibited potential for mild flattened appearance and borderline subnormal size. The right adrenal gland measured 0.47 cm width at the caudal pole and 0.58 cm width at the cranial pole.

IMAGING PERFORMED BY Spleen

Rebekah Jakum, CVT ARDMS/RVT 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.

HOSPITAL NAME Liver/ Gallbladder

Barton Heights VH The liver was subjectively normal in size, structure, and contour. The liver parenchyma was uniform and hypoechoic to the spleen with a mild coarse echotexture. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

REFERRING VET Gastrointestinal

Dr. Garthwaite The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach exhibited mild gas distention with no signs of ileus, obstruction, or foreign material.

INVOICE DATE

13708ag 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 ileus, obstruction, or foreign material.

5/3/23



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

Rhus Knudsen **Pancreas**

SPECIES 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 were evident.

Canine **Free Abdomen**

BREED No overt lymphadenopathy or peritoneal effusion was present.

Newfoundland **ULTRASONOGRAPHIC FINDINGS**

Primary Findings

- SEX**
- Structurally unremarkable stomach/small bowel with mild to moderate gastric gas distention.
- M**
- Normal pancreas.
 - Subjective mildly flattened to borderline subnormal right adrenal gland - nonspecific.

AGE **INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

2018 Overall, there is no overt evidence of significant abdominal visceral pathology as a definitive cause of the patient's clinical signs. No evidence of GI mural pathology, obstructive pattern, retained gastric ingesta/fluid or evidence of sonographic pancreatic inflammatory criteria. Potential for intermittent non-obstructive metabolic/functional delayed gastric emptying, food bloat, low grade gastritis/gastroenteritis and/or esophagitis could be possible. Although Na:K was normal, a resting cortisol level to rule out occult Addison's disease is recommended.

WEIGHT 149

INTERPRETED BY Empirically smaller more frequent feedings of a canned limited antigen or hydrolyzed diet trial with potential long term dietary therapy with avoidance of dry food, gastroprotectants +/- coverage for helicobacter and assessment of clinical response may prove beneficial.

R. McKenzie Daniel, DVM, DABVP (Canine and Feline) Three view chest radiographs are recommended if not done to assess for occult thoracic/esophageal pathology.

IMAGING PERFORMED BY
Rebekah Jakum, CVT
ARDMS/RVT



HOSPITAL NAME
Barton Heights VH

REFERRING VET
Dr. Garthwaite

INVOICE
13708ag

DATE
5/3/23



PATIENT

Rhus Knudsen

SPECIES

Canine

BREED

Newfoundland

SEX

M

AGE

2018

WEIGHT

149

INTERPRETED BY

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

IMAGING PERFORMED BY

Rebekah Jakum, CVT
ARDMS/RVT

HOSPITAL NAME

Barton Heights VH

REFERRING VET

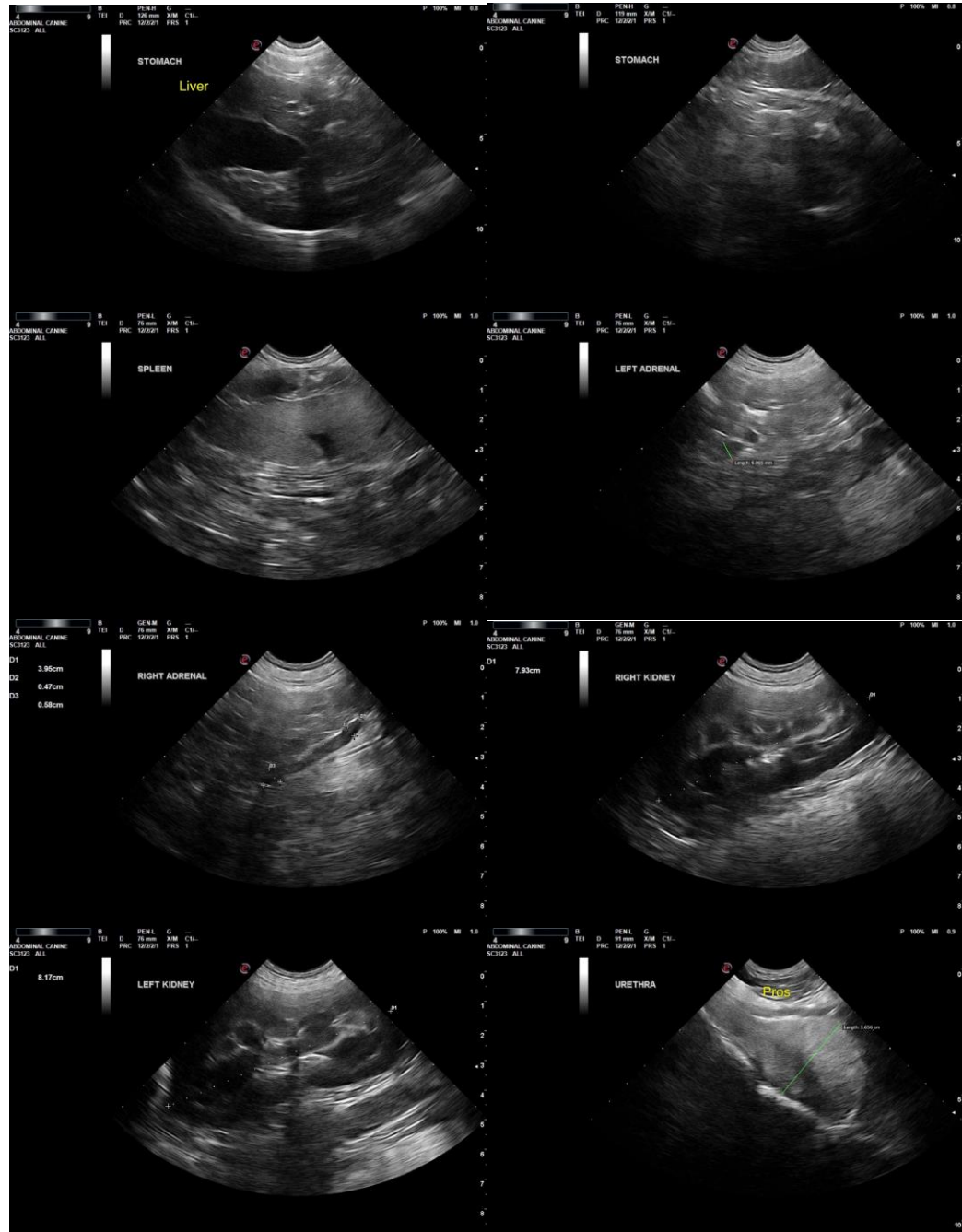
Dr. Garthwaite

INVOICE

13708ag

DATE

5/3/23



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.

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)
mac.daniel@sonopath.com



PATIENT

Rhus Knudsen

SPECIES

Canine

BREED

Newfoundland

SEX

M

AGE

2018

WEIGHT

149

INTERPRETED BY

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

**IMAGING
PERFORMED BY**

Rebekah Jakum, CVT
ARDMS/RVT

HOSPITAL NAME

Barton Heights VH

REFERRING VET

Dr. Garthwaite

INVOICE

13708ag

DATE

5/3/23