



PATIENT

Bruno Pfannenstiel

SPECIES

Canine

BREED

Shih Tzu

SEX

Neutered male

AGE

15 years

WEIGHT

15.5

INTERPRETED BY

Kim Radway, DVM,
DABVP (Canine/
Feline)

IMAGING PERFORMED BY

Dr. Pfannenstiel

HOSPITAL NAME

Mill Brook Animal
Clinic VBF

REFERRING VET

Dr. Pfannenstiel

INVOICE

71858

DATE

2/24/26

PRESENTING CLINICAL SIGNS

- D+++ overnight; anorexia; peeing on the floor
- Abnormal PE/Chem/CBC/UA Results: SF; peed in cage and couldn't get a UA

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder**, trigone and pelvic urethra presented with normal wall thicknesses with anechoic urine and normal tone. No uroliths or masses were noted in the lumen of the bladder. No evidence of inflammatory or neoplastic changes were noted. The ureters were not visible and considered normal.

The **kidneys** both had dramatic age related changes with overall decreased corticomedullary definition, blunted renal pelvic diverticuli and an irregular capsular contour. The left kidney was 3.52 cm and the right kidney was 5.2 cm in length.

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 acceptable. The left adrenal gland was 1.18 cm by 0.34 cm by 0.36 cm and the right adrenal gland was 1.88 cm by 0.91 cm by 0.53 cm in size.

Spleen

The **spleen** presented with a smooth homogeneous parenchyma hyperechoic to liver and kidney. The capsule was smooth and linear in its contour. The splenic vasculature demonstrated normal volume without signs of congestion, significant contraction, or thrombosis.

Liver

The **liver** revealed normal size, contour, and structure. Parenchymal echogenicity was smooth and homogenous in appearance. Vascular and biliary tracts were of normal volume and no evidence of congestion was noted. The gallbladder presented with anechoic contents and a thin hyperechoic wall. The cystic and common bile ducts were normal. No periportal lymphadenopathy was evident.

Gastrointestinal

The **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. There was a small amount of gas in the lumen of the stomach. No obstructive or overt infiltrative disease was noted. No abnormal lymphatic activity was noted and the abdomen was free of gastrointestinal masses and pathological fluid.



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Pancreas

The right and left limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic capsular contour were acceptably normal. No overt evidence of active inflammatory or neoplastic disease was noted.

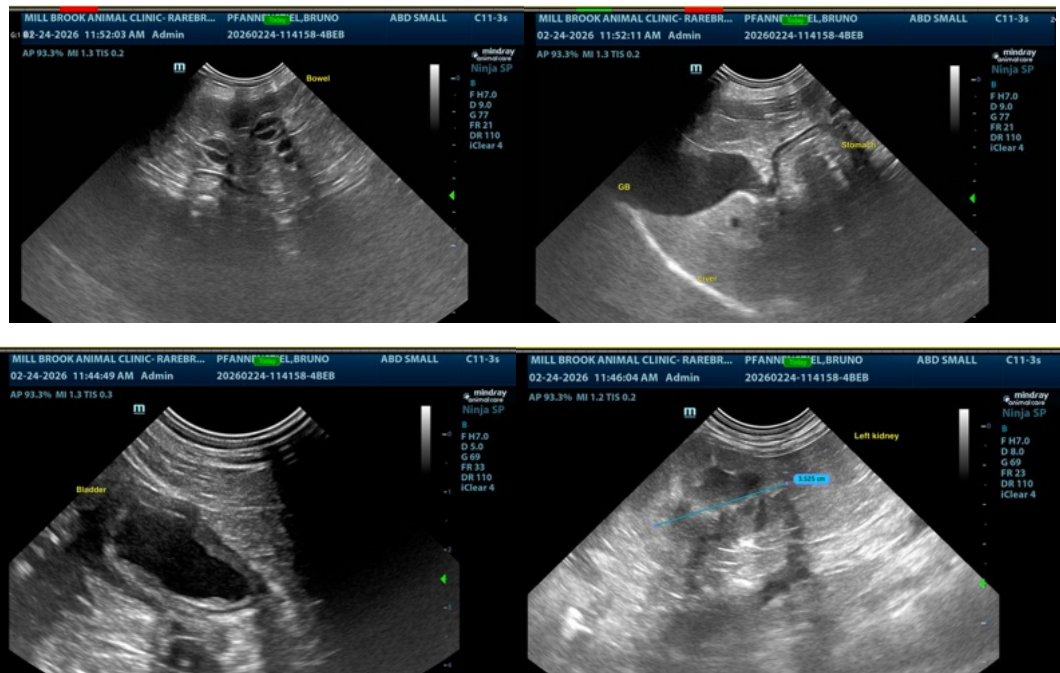
ULTRASONOGRAPHIC FINDINGS

Decreased corticomedullary definition.
Irregular renal capsular contour, consistent with chronic renal disease.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

This patient had a normal stomach and intestinal tract with no evidence of changes that would be expected to be a specific cause for the clinical signs of diarrhea. It is recommended to perform general blood work, urinalysis and blood pressure measurement due to the dramatically irregular appearing renal shape and contour.

There is a concern for underlying chronic renal disease in this patient. Treatment should include feeding a high fiber or Hill's biome diet giving daily probiotics and treating symptomatically with fluid replacement and Cerenia. Based upon the blood work results and renal function, long term therapy can be determined, which may include a renal diet.





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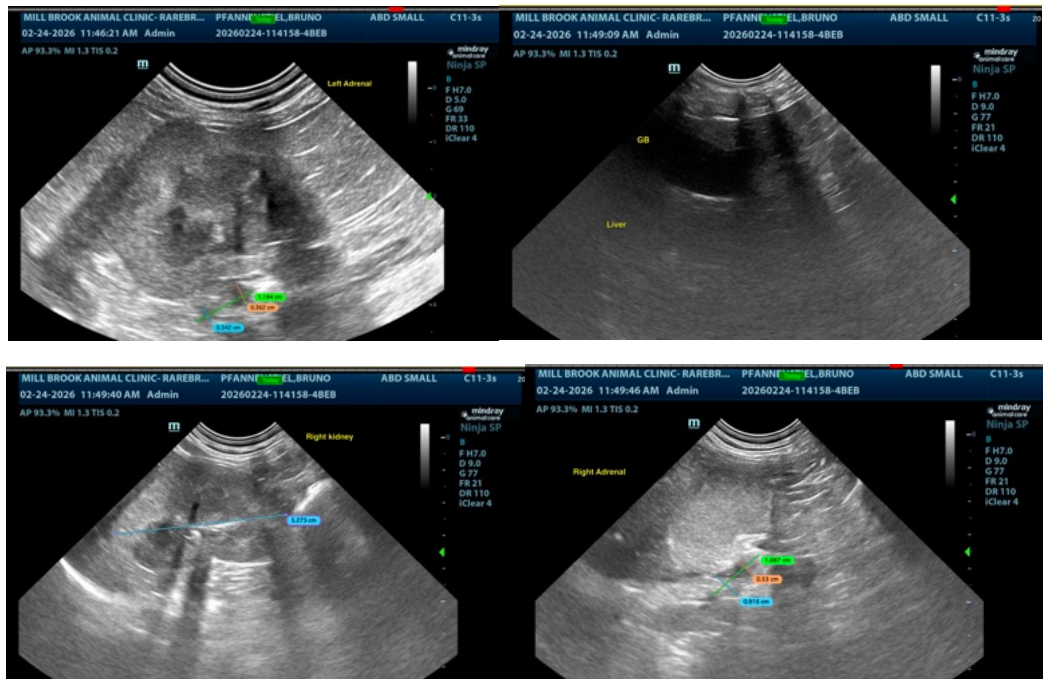
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Kim Radway, DVM, DABVP (Canine/ Feline)

MV Esp Ultrasound in Domestic and Wild Animals

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