



PATIENT PRESENTING CLINICAL SIGNS

Paisley Marche

History: NAF on physical exam. Owner reports urine leakage constantly, large volumes and well concentrated. Now has to wear a diaper. No response to Proin so far so stopped it. Is on Gabapentin and Aventi Liver chews.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: Blood shows slightly elevated ALT and SDMA Urine - no infection or crystals present X-ray - no stones visible

BREED

American Bulldog

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

SEX

Female, spayed

The urinary bladder is mildly distended with anechoic urine. The wall in the region of the apex is moderately thickened (up to 0.68 cm) and irregular. The wall tapers to a normal thickness as it extends towards the cystourethral junction. No cystic calculi are observed. The region of the trigone and the proximal urethra, visible to a depth of 2 cm, are normal.

AGE

5 Yrs.

The left kidney is normal size (4.57 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with normal corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

WEIGHT

26.4 kg.

The right kidney is normal size (5.26 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with normal corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

Adrenal Glands

INTERPRETED BY

Andrea Nicastro, DVM,
Diplomate ACVIM
(Small Animal Internal
Medicine)

The left adrenal gland is normal size (0.48 cm at cranial pole) (0.40 cm at caudal pole) (1.85 cm in length); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

IMAGING PERFORMED BY

Crystal Hill

The right adrenal gland is normal size (0.91 cm at cranial pole) (0.63 cm at caudal pole) (1.62 cm in length); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

HOSPITAL NAME

Snelgrove VS

Spleen

The spleen is normal in size (2.72 cm in width at the level of the hilus) with a normal capsular contour. There is appropriate echogenicity and echotexture. No focal lesions are observed. Splenic vasculature is normal.

REFERRING VET

Dr. Ioannou

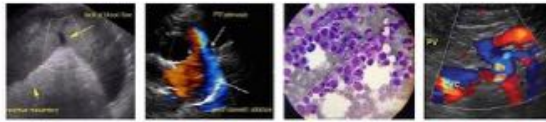
Liver

The liver is subjectively normal in size with normal contours and structure. There is appropriate echogenicity and echotexture. No overt structural evidence of inflammatory, infiltrative or regenerative pathology is evident. Vascular and biliary tracts are of normal volume with no evidence of congestion. No pathological hepatic lymphadenopathy observed. The gall bladder lumen is moderately distended. The wall is thin and smooth. A moderate amount of aggregated echogenic gravity-dependent debris/sludge is observed within the lumen. The cystic and common bile ducts are normal/not seen.

DATE

8/15/22

Gastrointestinal



PATIENT

Paisley Marche

The gastric lumen is mildly distended with ingesta. The gastric wall is normal in thickness with a normal layering pattern. The small intestinal lumen is not dilated. The small intestinal wall thickness is normal with a normal layering pattern and appropriate mural detail. Discreet masses are not identified. The colonic wall is normal. No obstructive disease is noted.

SPECIES

Canine

Pancreas

The region of the pancreas is isoechoic relative to surrounding omental fat. No obvious parenchymal abnormalities are observed. There is no evidence of regional inflammation or effusion.

BREED

American Bulldog

Free Abdomen

The peritoneal cavity is normal. There is no evidence of inflammation or effusion. The abdominal lymph nodes are normal/not visible.

SEX

Female, spayed

ULTRASONOGRAPHIC FINDINGS

AGE

5 Yrs.

- The urinary bladder wall changes could be consistent with cystitis or may be artifactual due to lack of full repletion. Correlation with the patient's urinalysis findings and clinical history is recommended.

WEIGHT

26.4 kg.

*An obvious cause for the patient's urinary incontinence is not identified in this study. If the incontinence has been present since the patient was a puppy, ectopic ureters would be a consideration. Other considerations include urethral sphincter mechanism incontinence, underlying neurologic disease, occult urinary tract infection, other.

INTERPRETED BY

Andrea Nicastro, DVM,
Diplomate ACVIM
(*Small Animal Internal
Medicine*)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

- A urine culture and sensitivity is recommended to assess for occult pyelonephritis.
- Given the mildly elevated ALT, consider pre- and post-prandial serum bile acids to assess hepatic function (as hepatic dysfunction can sometimes result in PU/PD).
- A thorough neurologic examination is recommended to assess for subtle deficits that may suggest underlying neurologic disease.
- Consider a contrast CT scan +/- cystoscopy to assess for ectopic ureter.
- If the above diagnostics are inconclusive and urethral sphincter mechanism incompetence is suspected, other medical options (i.e., estrogen) can be tried. If no improvement is seen, placement of a urethral occlude may be warranted.

**IMAGING
PERFORMED BY**

Crystal Hill

HOSPITAL NAME

Snelgrove VS

REFERRING VET

Dr. Ioannou

DATE

8/15/22



PATIENT

Paisley Marche

SPECIES

Canine

BREED

American Bulldog

SEX

Female, spayed

AGE

5 Yrs.

WEIGHT

26.4 kg.

INTERPRETED BY

Andrea Nicastro, DVM,
Diplomate ACVIM
(Small Animal Internal
Medicine)

**IMAGING
PERFORMED BY**

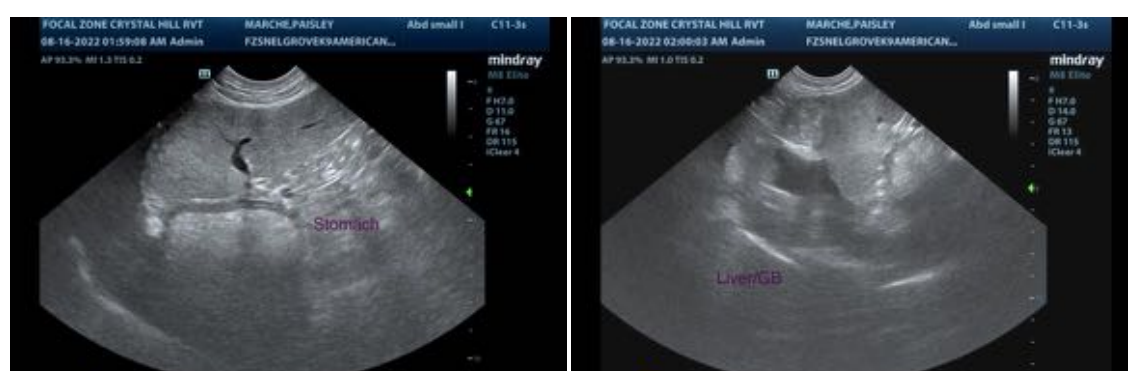
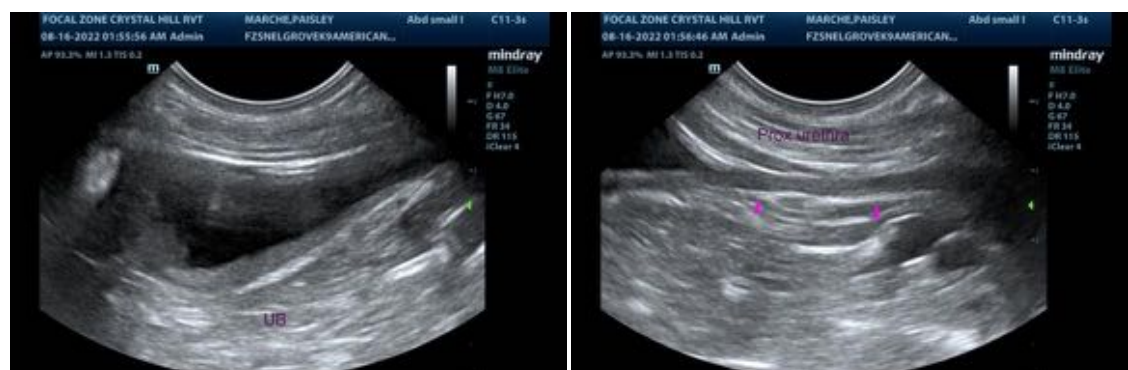
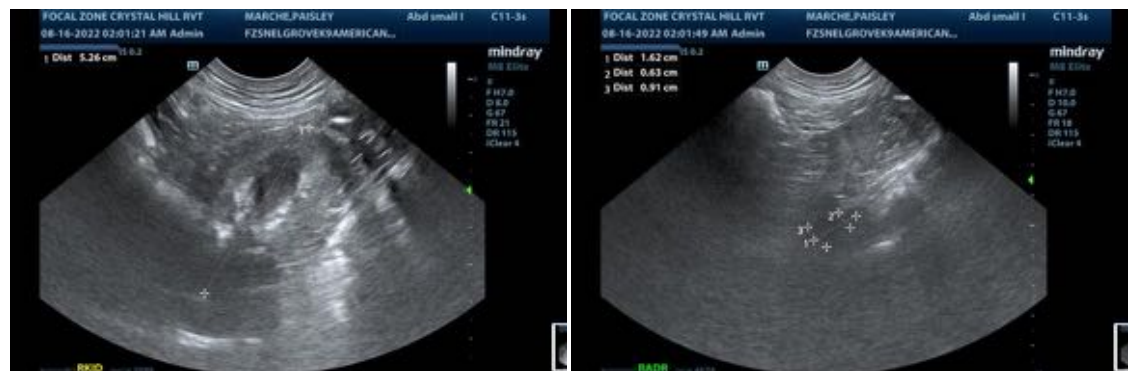
Crystal Hill

HOSPITAL NAME

Snelgrove VS

REFERRING VET

Dr. Ioannou



DATE
8/15/22

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



PATIENT

Paisley Marche

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.

SPECIES

Canine

Andrea Nicastro, MPH, DVM, Diplomate DACVIM (Small Animal Internal Medicine)
info@SonoPath.com

BREED

American Bulldog

SEX

Female, spayed

AGE

5 Yrs.

WEIGHT

26.4 kg.

INTERPRETED BY

Andrea Nicastro, DVM,
Diplomate ACVIM
(*Small Animal Internal
Medicine*)

**IMAGING
PERFORMED BY**

Crystal Hill

HOSPITAL NAME

Snelgrove VS

REFERRING VET

Dr. Ioannou

DATE

8/15/22