



## PATIENT

Becca Marden

## SPECIES

Canine

## BREED

Mixed

## SEX

FS

## AGE

12 years

## WEIGHT

20 kgs

## INTERPRETED BY

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

## IMAGING PERFORMED BY

Vincent Ravancho, CVT

## HOSPITAL NAME

Marsh Hospital for  
Animals

## REFERRING VET

Dr. Andrew Armani

## INVOICE

10767

## DATE

4/7/26

## PRESENTING CLINICAL SIGNS

### History:

- Monitoring - Hx of Cushings, murmur, elevated LES, now hypertension
- Grade I/VI murmur
- Current medications - Amlodipine 2.5 mg SID, Proin ER SID, Vetoryl, DES, Librela, Denamarin
- 2/26 - Alk Phos = 1323

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

### *Urinary System*

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 4.0 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 were noted.

The area of the iliac trifurcation was free of pathology.

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and mild loss of corticomodullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 6.4 cm in length. The right kidney measured 6.0 cm in length.

### *Adrenal Glands*

The bilateral adrenal glands were mildly enlarged in size. Mild parenchyma heterogeneity and mild capsule asymmetry were present without suspicion for overt neoplasia. The left adrenal gland measured 0.89 cm width in the caudal pole. The right adrenal gland measured 0.88 cm width in the caudal pole.

### *Spleen*

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.

### *Liver/Gallbladder*

The liver presented subjectively mildly enlarged in size. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size containing primarily anechoic content with mild, nonorganized, hyperechoic gallbladder debris. The cystic and common bile ducts were normal.

### *Gastrointestinal*

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained mild, nonshadowing ingesta without signs of obstruction or foreign material.



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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.

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

**Pancreas**

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.

**Free Abdomen**

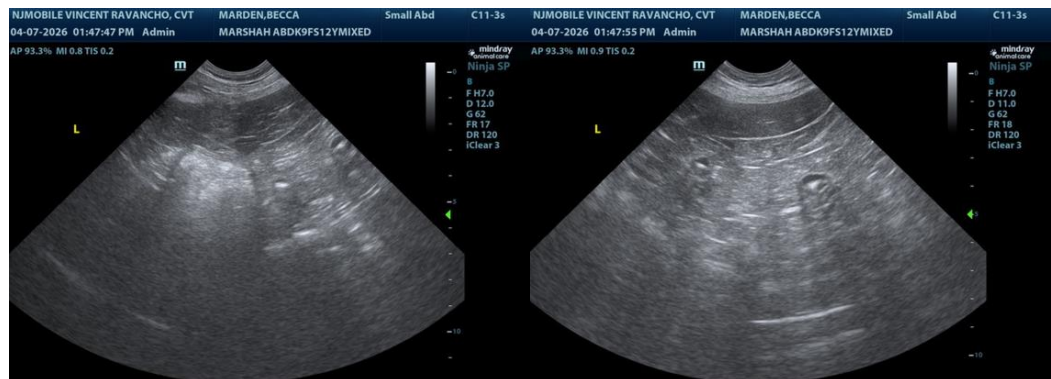
No overt lymphadenopathy or peritoneal effusion was present.

**ULTRASONOGRAPHIC FINDINGS**

- Hepatopathy – consistent with benign criteria, i.e., vacuolar, steroid, or cholestatic hepatopathy, given patient history
- Mild nonorganized gallbladder debris (non mucocele)
- Bilateral mild large nonhomogeneous adrenal glands – suggested of PDH criteria, given patient history, no overt adrenal neoplastic criteria
- Bilateral mild chronic renal changes
- Gastric ingesta – consistent with food echogenicity

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Overall expected abdominal presentation, given patient history, without overt evidence of neoplastic criteria. Continued hepatosupportive medications, which may include concurrent Ursodiol and continued management of Cushing's Syndrome, are recommended. Sonographic monitoring of the bilateral adrenal glands is recommended if evidence of persistent hypertension.





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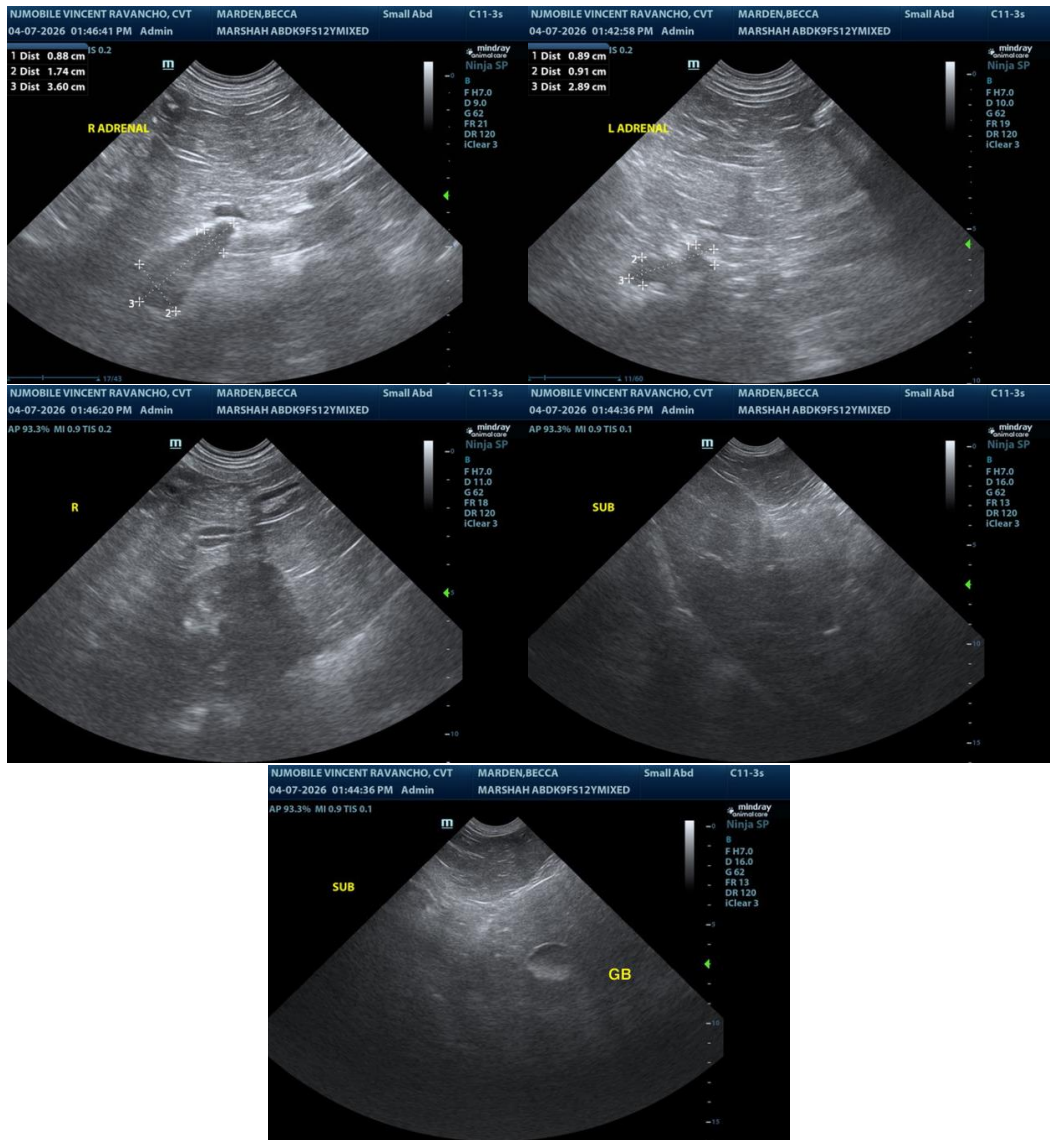
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)  
[info@sonopath.com](mailto:info@sonopath.com)