



**PATIENT PRESENTING CLINICAL SIGNS**

Mia Pena History: Bladder stones, possible stones in ureters. Current meds: Previcox  
Abnormal PE/Chem/CBC/UA Results: Chem/CBC NSF. UA: leuk ++, prot ++, pH 8.5, Blood +++, struvite crystals, Reds=ThTC SG: 1.031

**SPECIES**

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED *Urinary System***

Rottweiler

The urinary bladder is mildly distended. The wall is of appropriate thickness for the level of repletion. The mucosal surface is slightly irregular. Several varying sized cystic calculi are observed within the lumen. The region of the trigone and the visible portion of the proximal urethra are normal.

**SEX**

Female, spayed

The left kidney is normal size (7.78 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.

**AGE**

8 Yrs.

The right kidney is subjectively normal size; 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**

129.9 lbs.

***Adrenal Glands***

The left adrenal gland is upper limits of normal size (1.30 cm at cranial pole) (1.18 cm at caudal pole) (5.42 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.

**INTERPRETED BY**

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

The right adrenal gland is normal size (1.09 cm at cranial pole) (0.92 cm at caudal pole) (3.95 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**

Jessica Miller

***Spleen***

The spleen is normal in size (2.11 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.

**HOSPITAL NAME**

Branchville Country  
Vet

***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. Luminal contents are anechoic. The cystic and common bile ducts are normal/not seen.

**REFERRING VET**

Dr. Talbot-Valerio

**INVOICE**

13060

***Gastrointestinal***

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. There is slight disruption in the normal 1:3

**DATE**

3/1/22



**PATIENT** muscularis: mucosal ratio in most segments. Discreet masses are not identified. The colonic wall is normal. No obstructive disease is noted.

Mia Pena

### *Pancreas*

**SPECIES** 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.

Canine

### *Free Abdomen*

**BREED**

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

Rottweiler

**SEX**

### ULTRASONOGRAPHIC FINDINGS

Female, spayed

- Cystic calculi.
- The small intestinal wall changes could be consistent with inflammatory bowel disease. However, correlation with clinical findings is recommended.

**AGE**

8 Yrs.

\*There is no obvious evidence of ureteroliths. Due to patient size, small ureteroliths may be difficult to locate. However, there is no evidence of common sequelae of ureteroliths (i.e., pyelectasia/hydronephrosis).

**WEIGHT**

129.9 lbs.

### INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

**INTERPRETED BY**

- A cystotomy with stone removal, analysis and culture is recommended. Alternatively, medical dissolution of the stones can be considered with a prescription renal diet and broad-spectrum antibiotic therapy. If there is no improvement in stone size after 4 weeks of therapy, a cystotomy should be reconsidered. If the stone size is reduced, continue therapy until complete dissolution has been achieved.
- Given the patient's age, three-view thoracic radiographs should be performed prior to any anesthetic event.

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

**IMAGING  
PERFORMED BY**

Jessica Miller

**HOSPITAL NAME**

Branchville Country  
Vet

**REFERRING VET**

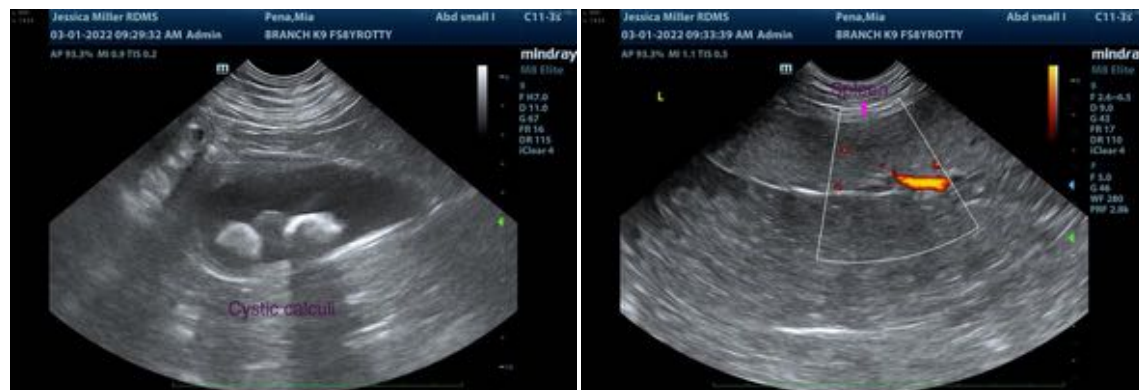
Dr. Talbot-Valerio

**INVOICE**

13060

**DATE**

3/1/22





**PATIENT**

Mia Pena

**SPECIES**

Canine

**BREED**

Rottweiler

**SEX**

Female, spayed

**AGE**

8 Yrs.

**WEIGHT**

129.9 lbs.

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Jessica Miller

**HOSPITAL NAME**

Branchville Country  
Vet

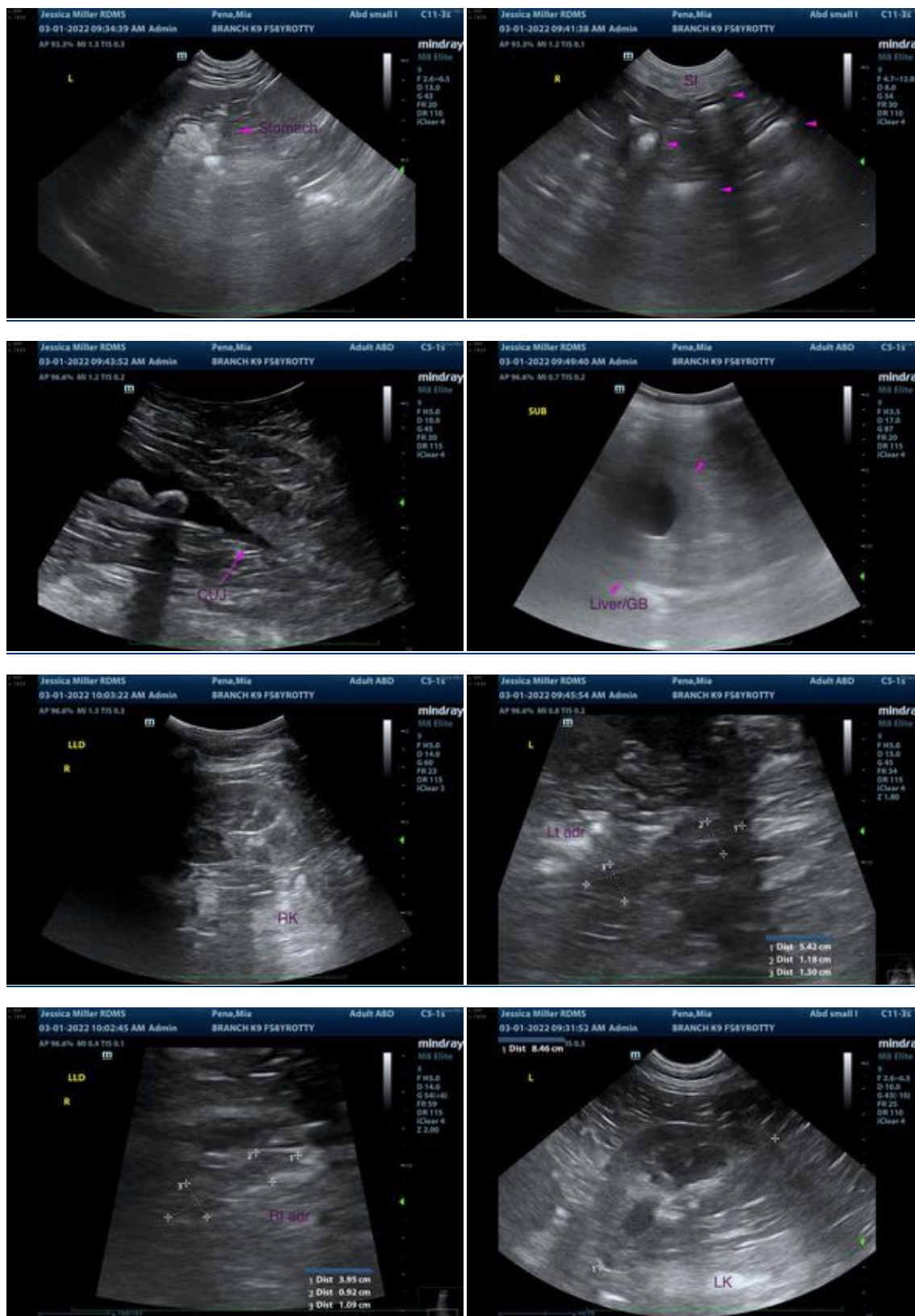
**REFERRING VET**

Dr. Talbot-Valerio

**INVOICE**

13060

**DATE**  
3/1/22



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



**PATIENT**

Mia Pena

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

Andrea.nicastro@sonopath.com

**BREED**

Rottweiler

**SEX**

Female, spayed

**AGE**

8 Yrs.

**WEIGHT**

129.9 lbs.

**INTERPRETED BY**

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

**IMAGING  
PERFORMED BY**

Jessica Miller

**HOSPITAL NAME**

Branchville Country  
Vet

**REFERRING VET**

Dr. Talbot-Valerio

**INVOICE**

13060

**DATE**

3/1/22