

**PATIENT PRESENTING CLINICAL SIGNS**

Bo-Bo Perez  
Occasional vomiting, elevated globulins, elevated BUN.  
Abnormal PE/Chem/CBC/UA Results: BUN 56, glob 5.1, USG: 1.028.

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

Canine **Urinary System**

**BREED**  
Yorkie  
The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of – 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.

**SEX**  
The residual prostate was symmetrically normal in size with uniform parenchyma and slight coarse echotexture.

Neutered Male  
**AGE**  
13 Years  
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 loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Minor non-obstructive medullary mineralization was present in both kidneys. The left kidney measured 2.9 cm. The right kidney measured 3.3 cm.

The area of the aortic trifurcation was free of pathology.

**WEIGHT Adrenal Glands**

5.6 Pounds  
The adrenal glands were uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.43 cm at the caudal pole. The left adrenal gland measured 0.40 cm at the cranial pole and 0.47 cm at the caudal pole.

**INTERPRETED BY Spleen**

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

**IMAGING PERFORMED BY Liver**

Kelly Vazquez  
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.

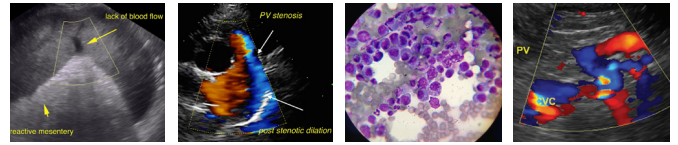
**HOSPITAL NAME Gastrointestinal**

Animal General  
on the Hudson  
The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction or foreign material. Gastric body wall measured 0.25 cm. The gastroesophageal sphincter appeared to be structurally normal.

**REFERRING VET**  
Dr. William Freedman  
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. Duodenum wall measured 0.27 cm.

**INVOICE**  
25939  
Normal visible colon wall layers were present with apparent formed feces in lumen.

**DATE**  
9/29/21



**PATIENT**

**Pancreas**

Bo-Bo Perez

The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.

**SPECIES**

**Free Abdomen**

Canine

Focal, mildly prominent to enlarged mesenteric node was noted medial to the spleen, measuring 0.61 cm in width. The lymph node was essentially isoechoic to adjacent omentum without evidence of peripheral inflammation and maintaining a normal width: length ratio (<0.5). No other evidence of lymphadenopathy.

**BREED**

Yorkie

No effusion.

**SEX**

**ULTRASONOGRAPHIC FINDINGS**

Neutered Male

- Chronic renal changes with minor medullary mineral
- Heterogeneous pancreas
- Sonographically unremarkable gastrointestinal tract
- Focal, subjectively reactive mesenteric lymph node

**AGE**

13 Years

**WEIGHT**

5.6 Pounds

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered.

The heterogeneous pancreas is non-specific and may indicate age related pancreatic changes with potential for low-grade or chronic inflammation, which may present sonographically normal. This possibility may be considered if evidence of cranial abdominal or subxiphoid discomfort on palpation. Correlation with a spec cPL may be considered. Potential for dietary intolerance, food hypersensitivity or structurally insignificant inflammatory gastroenteropathy possible. Bland limited antigen or hydrolyzed diet with as-needed gastroprotectants may prove beneficial. 3-view chest radiographs recommended to rule out occult thoracic or esophageal pathology.

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Kelly Vazquez

**HOSPITAL NAME**

Animal General  
on the Hudson

**REFERRING VET**

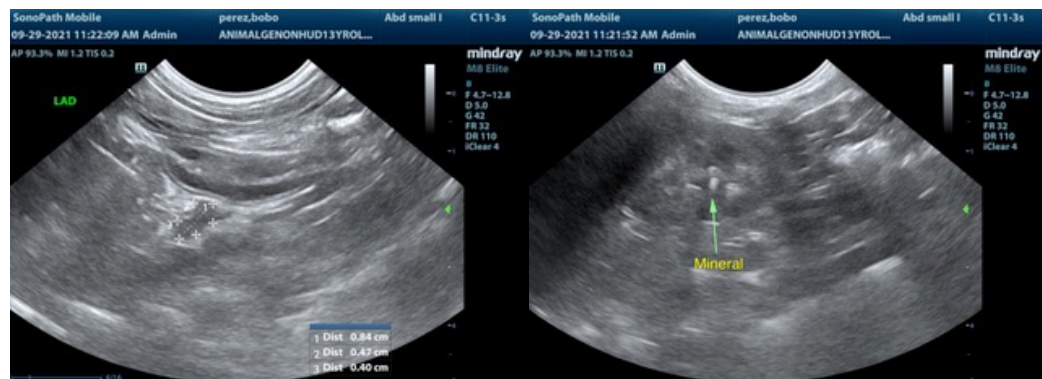
Dr. William Freedman

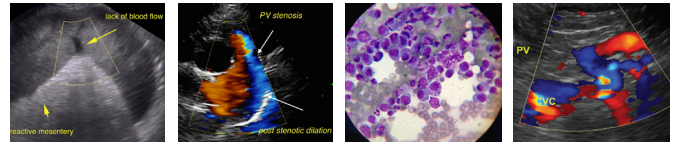
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**PATIENT**

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**SPECIES**

Canine

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Yorkie

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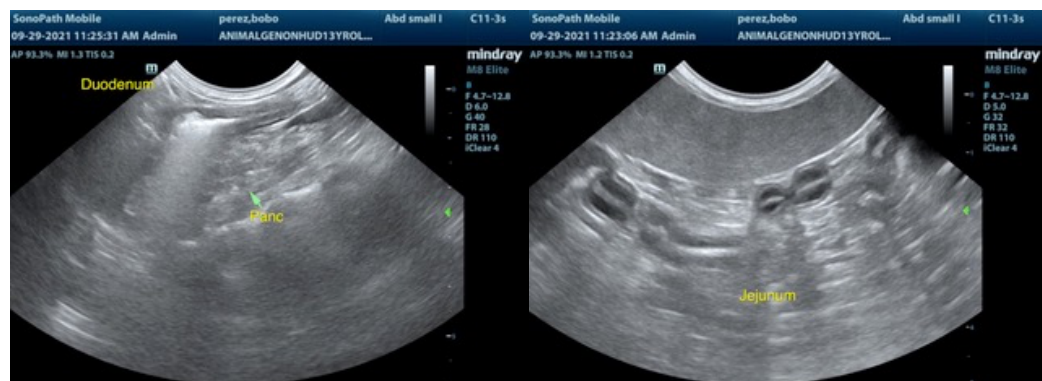
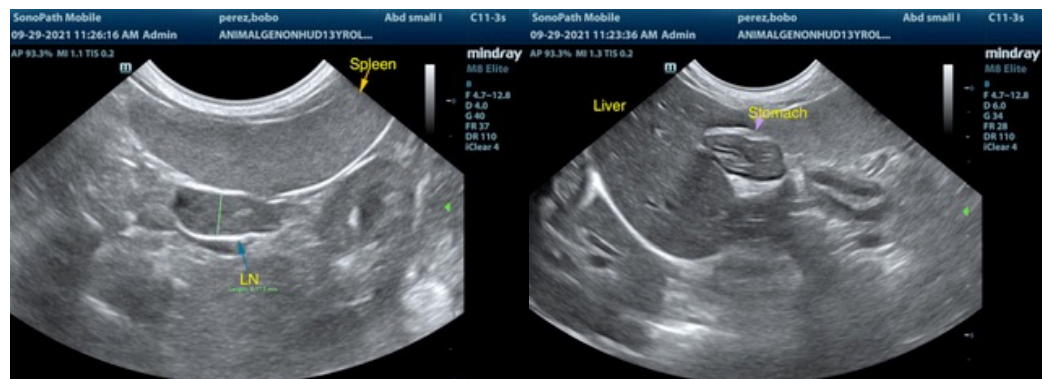
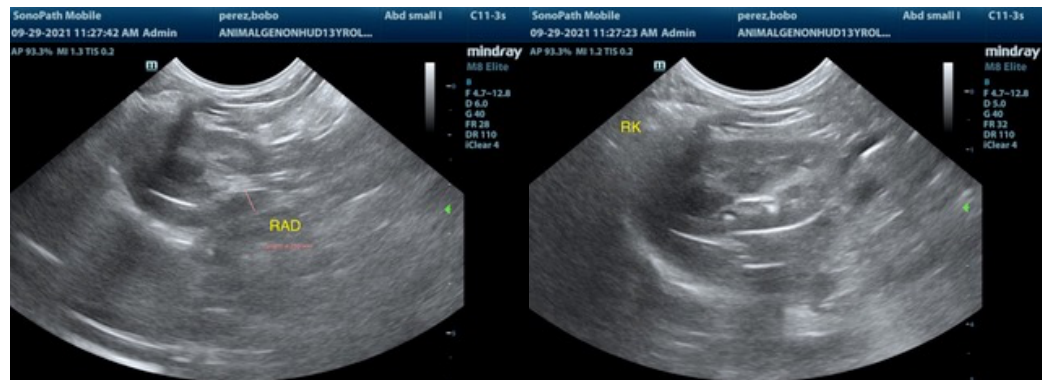
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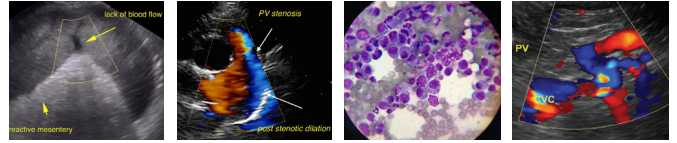
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**PATIENT**

Bo-Bo Perez

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

**SPECIES**

Canine

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

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Yorkie

**SEX**

Neutered Male

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