



**PATIENT**

Pete Wald

**SPECIES**

Canine

**BREED**

Chihuahua

**SEX**

Neutered Male

**AGE**

1 Year

**WEIGHT**

5.4 Lbs.

**INTERPRETED BY**

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

**IMAGING  
PERFORMED BY**

Dr. Megan Cassels-  
Conway

**HOSPITAL NAME**

Central Broward AH

**REFERRING VET**

Dr. Johnathan Wald

**INVOICE**

13647

**DATE**

1/27/22

**PRESENTING CLINICAL SIGNS**

History: Lethargy and inappetance this morning. Temp 104.1F. Tucked abdomen, mild abdominal pain. Radiographs showed gastric dilation with pyloric outflow obstruction, possible foreign body or hypertrophy.

Abnormal PE/Chem/CBC/UA Results: 1/27/2022 CBC WNL Chem ALP 707 5/19/2021 CBC WNL Chem ALP 220

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra 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.

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 3.65 cm in length. The right kidney measured 3.5 cm in length.

**Adrenal Glands**

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.29 cm width.

The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.33 cm caudal pole width.

**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**

The liver exhibited subjective mild enlargement. 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 with mild non-organized particulate luminal debris. The cystic duct and common bile ducts were normal without evidence of dilation.

**Gastrointestinal**

The stomach presented intact and sonographically unremarkable wall layering with a normal wall layer ratio. The lumen of the stomach moderately distended with variably echogenic yet non-shadowing ingesta and luminal gas. Ingesta and somewhat chyme extended into the area of the pylorus. The



**PATIENT**

Pete Wald

pylorus was sonographically unremarkable without evidence of mural hypertrophy or overt mechanical pyloric outflow obstruction. The pylorus wall measured 0.36 cm.

**SPECIES**

Canine

The small intestine exhibited intact and sonographically unremarkable wall layering with maintained 1:3 muscularis/mucosa ratio. Mild upper duodenal non-shadowing chyme was present yet the intestine was primarily empty without evidence of mechanical or metabolic ileus or overt foreign material.

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

**BREED**

Chihuahua

***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 was evident.

**SEX**

Neutered Male

***Free Abdomen***

No evidence of mesenteric lymphadenopathy or peritoneal effusion was present.

**AGE**

1 Year

**ULTRASONOGRAPHIC FINDINGS**

- Moderate gastric distention containing variably echogenic yet non-shadowing ingesta
- Overtly normal small bowel with mild upper duodenal chyme- no evidence of mechanical/metabolic small bowel ileus
- Mild vacuolar hepatopathy pattern
- Minor gallbladder debris- nonspecific likely incidental

**WEIGHT**

5.4 Lbs.

**INTERPRETED BY**

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

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Overt evidence of mechanical pyloric outflow obstruction, pyloric mural pathology or small intestinal mechanical/metabolic ileus was not noted. This may suggest some degree of metabolic gastric stasis or non-obstructive delayed gastric emptying, potentially owing to structurally insignificant gastrointestinal inflammatory process, dietary indiscretion/food intolerance or other non-obstructive gastroenteropathy. Potential for low-grade to chronic pancreatitis may be possible yet sonographically normal. Technically, the possibility of a small amount of foreign material in the stomach obscured by surrounding ingesta and gas cannot be definitively excluded. Given these findings, no indication for immediate surgical intervention. I recommend hospitalization with 24-48 hour IV fluid and gastrointestinal support with either radiographic or sonographic monitoring for normal or possibly continued delayed gastric emptying.

**IMAGING PERFORMED BY**

Dr. Megan Cassels-  
Conway

**HOSPITAL NAME**

Central Broward AH

**REFERRING VET**

Dr. Johnathan Wald

**INVOICE**

13647

**DATE**

1/27/22



**PATIENT**

Pete Wald

**SPECIES**

Canine

**BREED**

Chihuahua

**SEX**

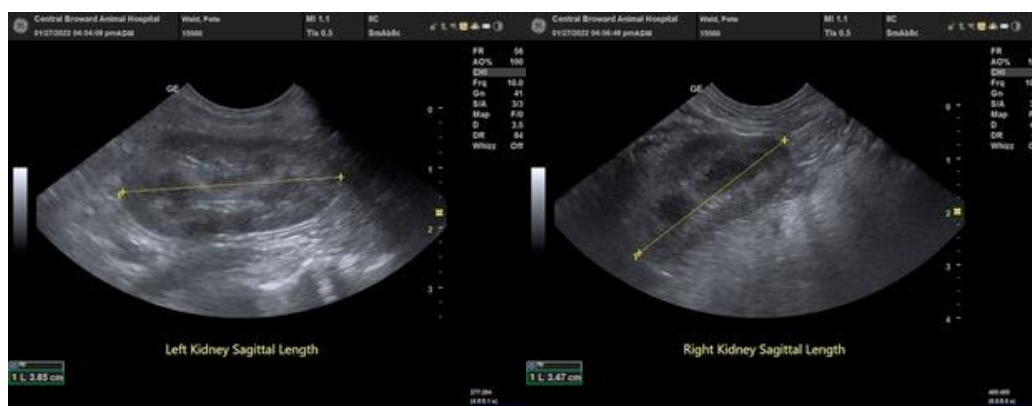
Neutered Male

**AGE**

1 Year

**WEIGHT**

5.4 Lbs.



**INTERPRETED BY**

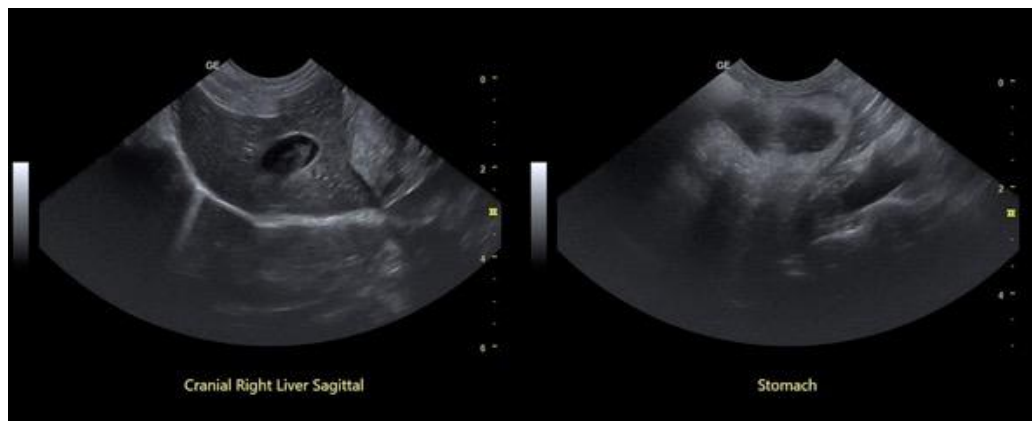
R. McKenzie Daniel,  
DVM, DABVP  
(Canine and Feline)

**IMAGING PERFORMED BY**

Dr. Megan Cassels-  
Conway

**HOSPITAL NAME**

Central Broward AH



**REFERRING VET**

Dr. Johnathan Wald

**INVOICE**

13647

**DATE**

1/27/22



**PATIENT**

Pete Wald

**SPECIES**

Canine

**BREED**

Chihuahua

**SEX**

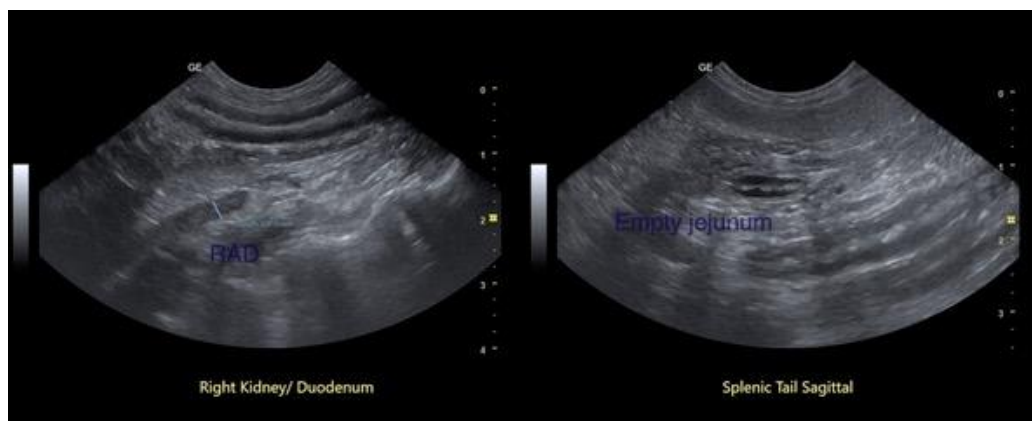
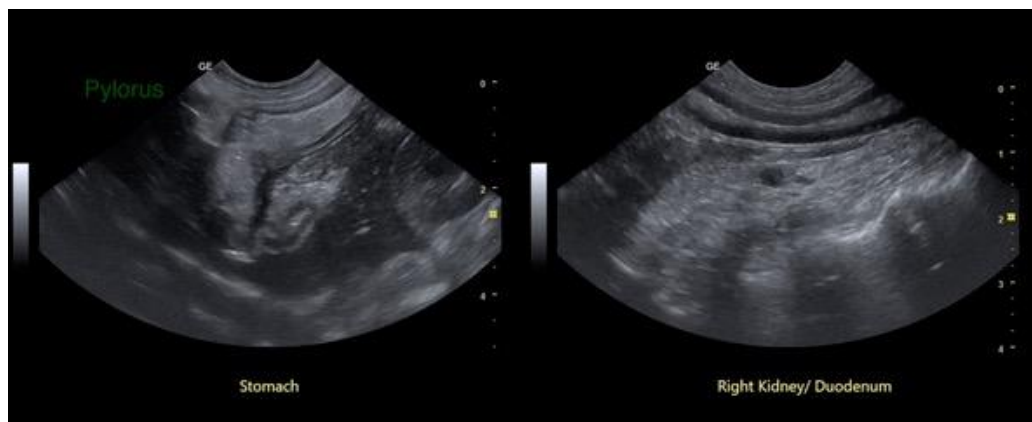
Neutered Male

**AGE**

1 Year

**WEIGHT**

5.4 Lbs.



**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Dr. Megan Cassels-  
Conway

**HOSPITAL NAME**

Central Broward AH

**REFERRING VET**

Dr. Johnathan Wald

**INVOICE**

13647

**DATE**

1/27/22

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.

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