



**PATIENT**

Faye Carroll

**SPECIES**

Canine

**BREED**

Chihuahua

**SEX**

FS

**AGE**

12 years

**WEIGHT**

6.6 kg

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Dr. Sarah Barthelemy

**HOSPITAL NAME**

Alpine 24/Hour PH

**REFERRING VET**

Dr. Saad

**INVOICE**

16458

**DATE**

3/24/23

**PRESENTING CLINICAL SIGNS**

Initially presented for UTI - treated with antimicrobials based on culture.

In past week has developed bloated appearance in abdomen, shaking.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The urinary bladder was mildly subnormal in size owing to lack of urine distention. Sonographically unremarkable urinary bladder walls were present without evidence of inflammatory criteria or tumors. Mild anechoic urine was present with no sediment or calculi. The urethra exhibited normal structure and tone to a depth of 3.0 cm.

The area of the aortic 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 corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Focal areas of nonobstructive medullary mineral to small renoliths were present. The left kidney measured 4.5 cm in length. The right kidney measured 4.2 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 0.42 cm width at the caudal pole and 0.41 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.44 cm width at the caudal pole and 0.5 cm width at the cranial pole.

**Spleen**

The spleen exhibited primarily finely textured parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Mild generalized parenchyma heterogeneity was present without evidence of nodular changes. 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. The parenchymal heterogeneity is likely consistent with benign changes such as extramedullary hematopoiesis or age-related remodeling with minor potential for inflammatory or neoplastic disease.

**Liver/ Gallbladder**

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.

**Gastrointestinal**

The stomach presented intact sonographically unremarkable visualized gastric wall layering. The lumen of the stomach contained mild to moderate shadowing ingesta and gastric luminal gas. No evidence of mechanical pyloric outflow obstruction was noted.



**PATIENT**

Faye Carroll

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.

**SPECIES**

Canine

Normal visible colon wall layers were present with potential semi-formed colonic fecal matter.

***Pancreas***

**BREED**

Chihuahua

Mild prominent to irregular mixed echogenic pancreas base and right pancreatic limb were noted. Potential evidence of subtle peripancreatic hyperechoic omentum was present.

***Free Abdomen***

**SEX**

FS

No omental masses, lymphadenopathy, or evidence of peritoneal effusion were noted.

**ULTRASONOGRAPHIC FINDINGS**

**AGE**

12 years

- Overtly normal urinary bladder - no evidence of inflammatory / neoplastic criteria
- Bilateral nonobstructive medullary mineral / renolithiasis
- Mildly prominent regular to mixed echogenic pancreas base and right pancreatic limb - remodeling owing to previous inflammatory episode, potential for mixed pattern chronic to chronic active pancreatitis
- Structurally unremarkable gastrointestinal tract with moderate shadowing gastric ingesta

**WEIGHT**

6.6 kg

**INTERPRETED BY**

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

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Potential for mixed pattern pancreatitis may be suspected if evidence of cranial abdominal or subxiphoid discomfort on palpation. Correlation with a Spec cPL is suggested.

**IMAGING PERFORMED BY**

Dr. Sarah Barthelemy

The shadowing gastric ingesta was nonspecific without evidence of mechanical upper gastrointestinal outflow obstruction. This may potentially indicate some degree of functional / metabolic gastric stasis if documented NPO. Technically, the potential for gastric foreign material cannot be definitively excluded. If documented NPO; hospitalization with as-needed gastrointestinal support, documented NPO, and reassessment for evidence of gastric emptying vs. retrained gastric ingesta is recommended.

**HOSPITAL NAME**

Alpine 24/Hour PH

**REFERRING VET**

Dr. Saad

No sonographic evidence of intraabdominal neoplastic criteria was noted. If concern for nonobstructive delayed emptying, smaller more frequent feedings of a canned bland or hydrolyzed diet, as-needed gastroprotectants, and therapy for potential low-grade mixed pattern pancreatitis may prove beneficial.

**INVOICE**

16458

**DATE**

3/24/23



**PATIENT**

Faye Carroll

**SPECIES**

Canine

**BREED**

Chihuahua

**SEX**

FS

**AGE**

12 years

**WEIGHT**

6.6 kg

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Dr. Sarah Barthelemy

**HOSPITAL NAME**

Alpine 24/Hour PH

**REFERRING VET**

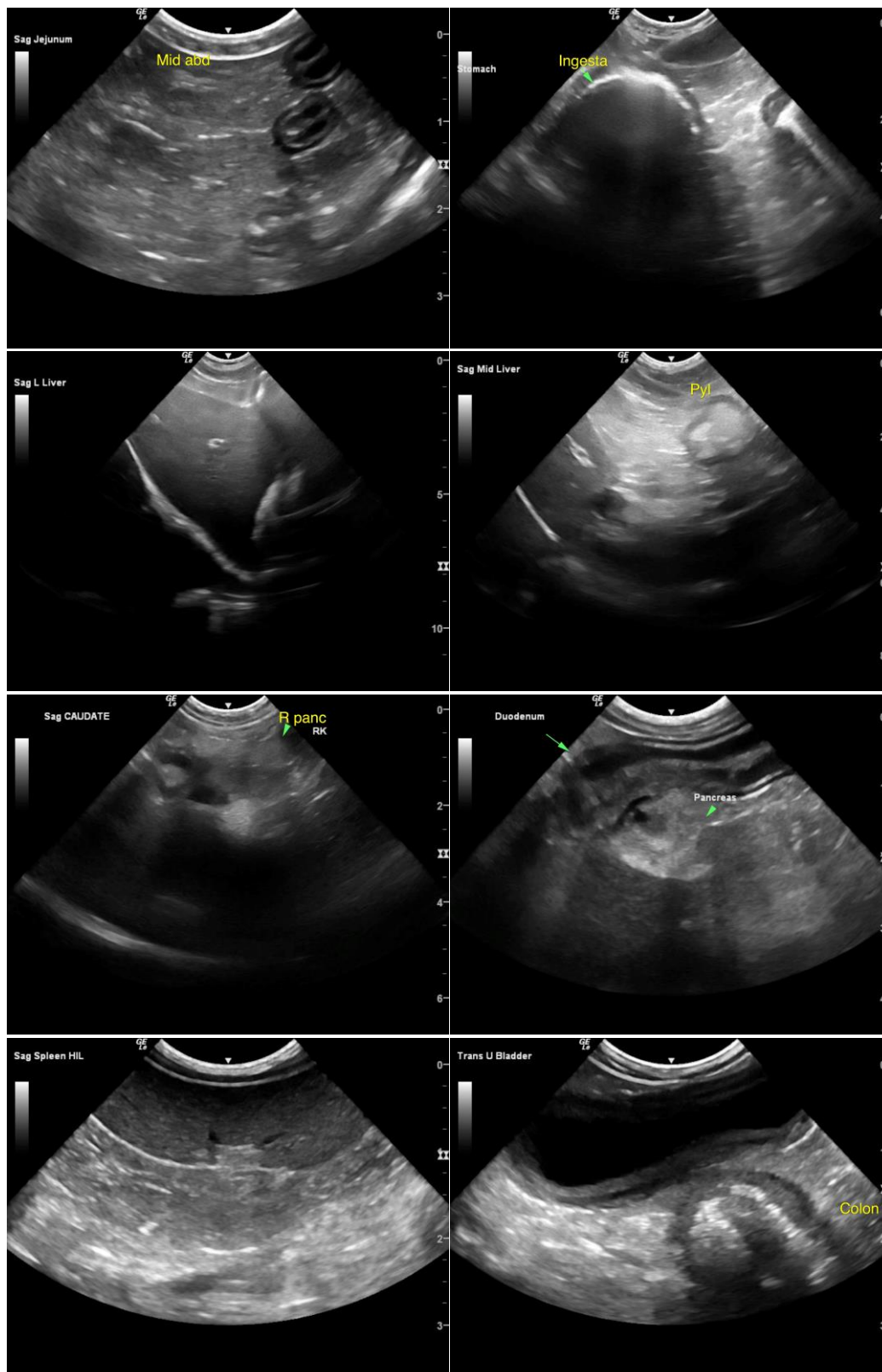
Dr. Saad

**INVOICE**

16458

**DATE**

3/24/23





## PATIENT

Faye Carroll

## SPECIES

Canine

## BREED

Chihuahua

## SEX

FS

## AGE

12 years

## WEIGHT

6.6 kg

## INTERPRETED BY

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

## IMAGING PERFORMED BY

Dr. Sarah Barthelemy

## HOSPITAL NAME

Alpine 24/Hour PH

## REFERRING VET

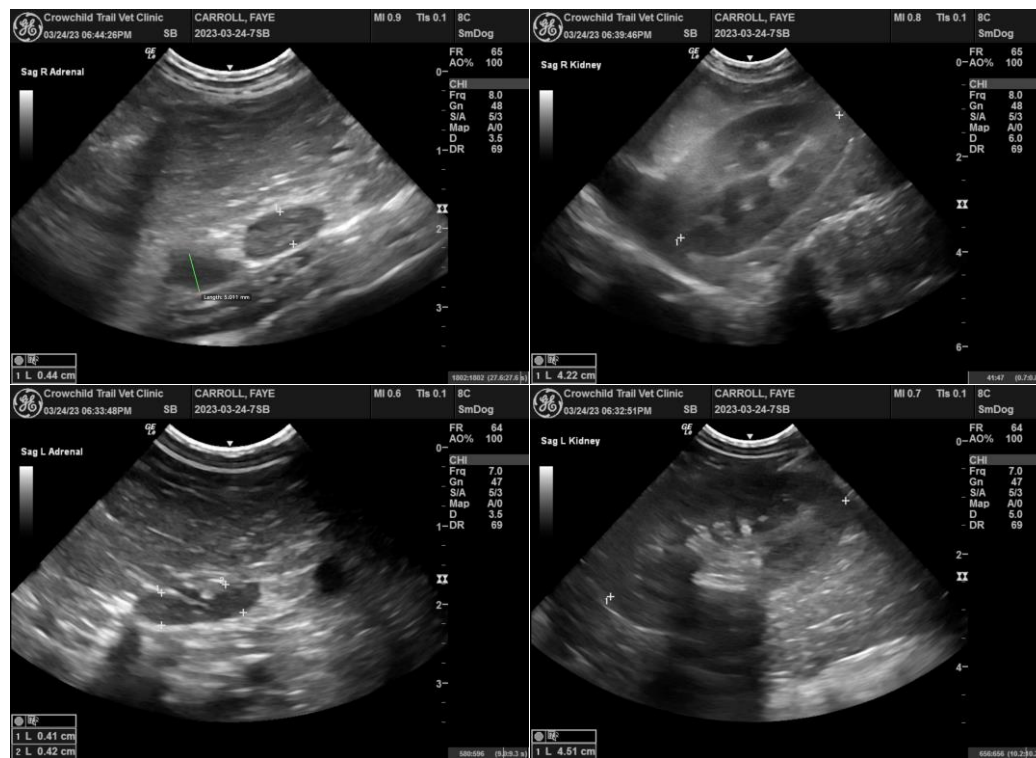
Dr. Saad

## INVOICE

16458

## DATE

3/24/23



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