



PATIENT

Charlie Allan

PRESENTING CLINICAL SIGNS

Chronic intermittent diarrhea with melina for last 6 months. Is lethargic and hypoxic when having bouts of diarrhea. Has had 2 treatments of Panacur daily for 5 days 21 days apart.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: Non diagnostic

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Shih Tzu

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.

SEX

MN

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. The left kidney measured 4.5 cm in length. The right kidney measured 4.6 cm in length.

AGE

9

The area of the aortic trifurcation was free of pathology.

WEIGHT

7kg

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.54 cm width at the caudal pole and 0.36 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 0.36 cm width at the caudal pole and 0.46 cm width at the cranial pole.

INTERPRETED BY

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

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.

IMAGING PERFORMED BY

Dr. Belan

HOSPITAL NAME

Ranchlands Vet Clinic

Liver/Gallbladder

The liver presented 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. Intermittent discrete indistinctly visualized nodules were present sonographically consistent with areas of hyperplasia, hematopoiesis or similar. 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 primarily anechoic luminal content and minor congealed gallbladder debris in the gallbladder neck. The cystic and common bile ducts were normal.

REFERRING VET

Dr. Sam

INVOICE

13551ag

Gastrointestinal

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.

DATE

04/21/2023



PATIENT

Charlie Allan

The small intestine presented intact wall layering with mild altered muscularis/mucosa ratio owing to mildly prominent to hyperechoic submucosa and muscularis layers. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material.

SPECIES

Canine

The colon walls presented intact yet prominent wall layering with mild thickened to echogenic submucosa. Nonformed fecal matter was present in the colon lumen with lumen dilation.

Pancreas

BREED

Shih Tzu

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

Free Abdomen

SEX

MN

No omental masses, overt lymphadenopathy or peritoneal effusion was present.

AGE

9

ULTRASONOGRAPHIC FINDINGS

- Generalized inflammatory enterocolopathy pattern with subjective mild to moderate ileocolitis.
- Heterogenous pancreas.
- Minor gallbladder debris (non-mucocele).
- Mild age related renal changes.

WEIGHT

7kg

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The small intestine and colon exhibited evidence of inflammatory criteria with potential for IBD. Dietary intolerance / food hypersensitivity, less likely occult parasitism given recent deworming, dysbiosis, inflammatory gastroenteropathy, low grade to chronic pancreatitis which may appear sonographically normal, or occult Addison's disease are all potentials. Infiltrative neoplasia is considered less likely. A GI panel to include PLI/TLI/Cobalamin/Folate is recommended.

INTERPRETED BY

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

Empirically, a limited antigen or hydrolyzed diet trial with potential long term dietary therapy, prophylactic deworming (Panacur 50 mg/kg SID x 5 consecutive days with repeat protocol in 3 weeks even if fecal testing is negative), high colony count probiotic (Provable or Visbiome), limited antibiotic trial to minimize adverse effects on normal GI flora and as needed gastrointestinal support with assessment of clinical response may prove beneficial. Intestinal biopsies are likely required if GI signs continue despite empirical therapy.

IMAGING PERFORMED BY

Dr. Belan

HOSPITAL NAME

Ranchlands Vet Clinic

REFERRING VET

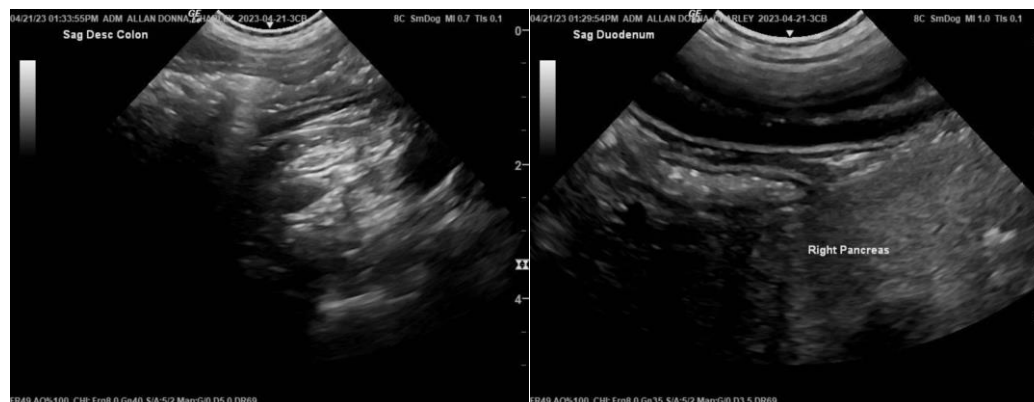
Dr. Sam

INVOICE

13551ag

DATE

04/21/2023





PATIENT

Charlie Allan

SPECIES

Canine

BREED

Shih Tzu

SEX

MN

AGE

9

WEIGHT

7kg

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Belan

HOSPITAL NAME

Ranchlands Vet Clinic

REFERRING VET

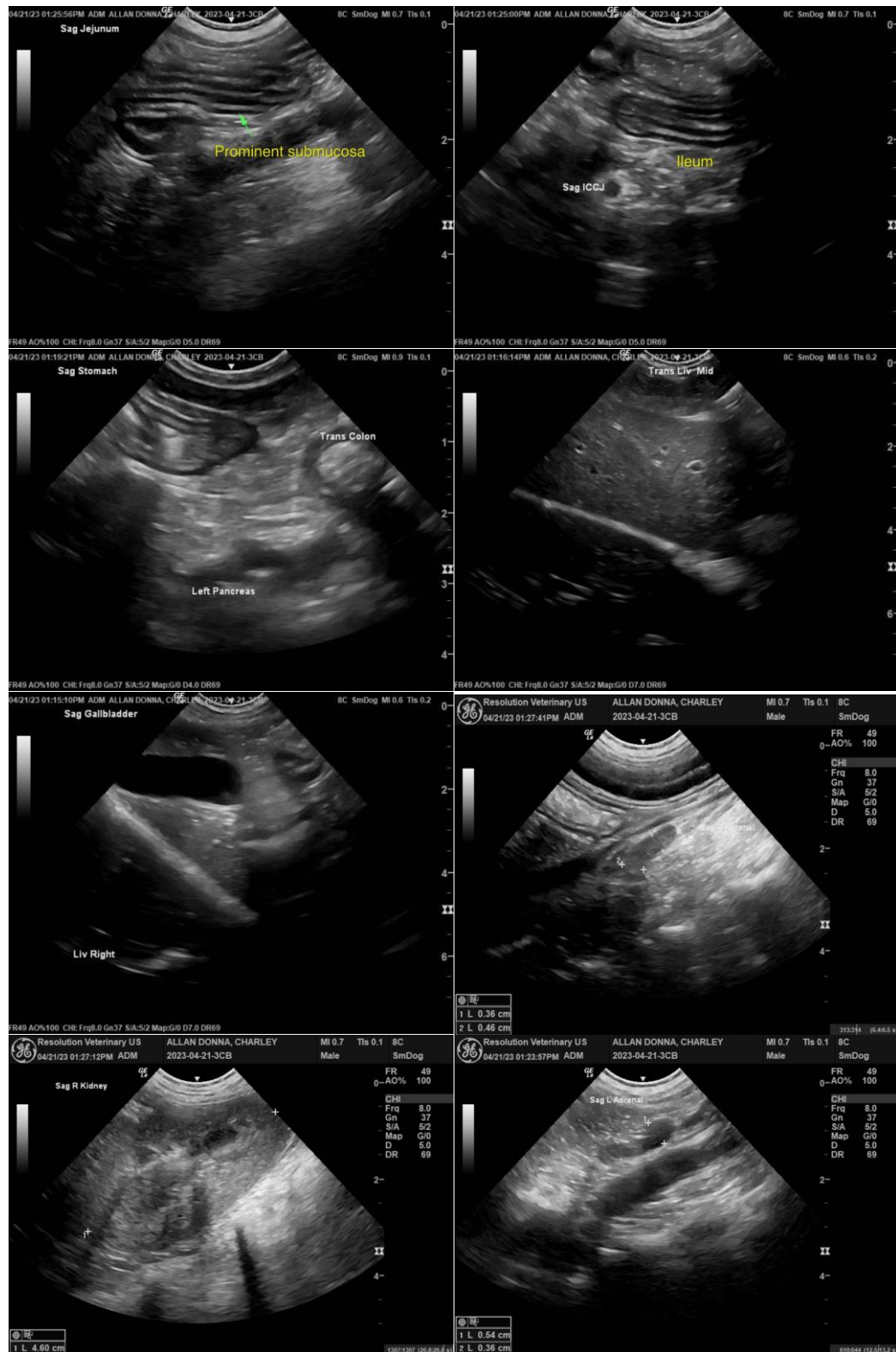
Dr. Sam

INVOICE

13551ag

DATE

04/21/2023





PATIENT

Charlie Allan

SPECIES

Canine

BREED

Shih Tzu

SEX

MN

AGE

9

WEIGHT

7kg

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Belan

HOSPITAL NAME

Ranchlands Vet Clinic

REFERRING VET

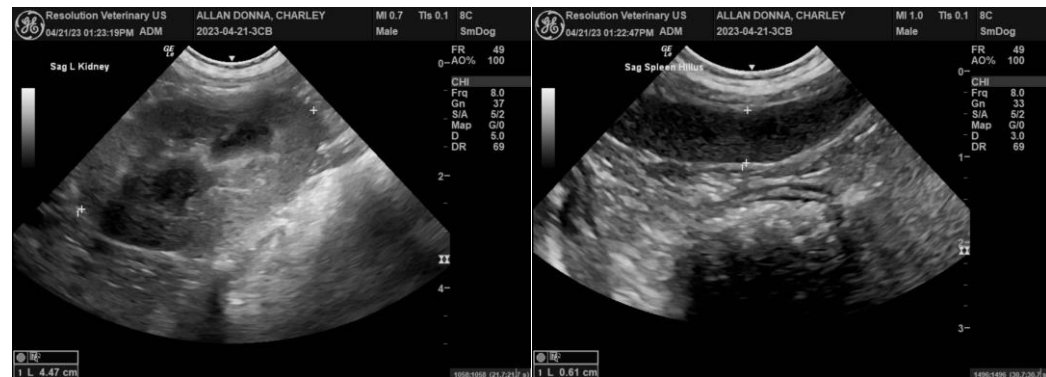
Dr. Sam

INVOICE

13551ag

DATE

04/21/2023



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)
mac.daniel@sonopath.com