

**PATIENT**

Diane Nowack

SPECIES

Canine

BREED

Shih Tzu

SEX

Spayed Female

AGE

13 Years

WEIGHT

10 Pounds

INTERPRETED BYR. McKenzie Daniel, DVM,
DABVP (Canine and Feline)**IMAGING
PERFORMED BY**

Sarah Pender, CVT

HOSPITAL NAME

SVS Imaging QC

REFERRING VET

Dr. Bock-Vanaria

INVOICE

20529

DATE

1/11/23

PRESENTING CLINICAL SIGNS

History: Markedly decreased appetite; eats only a couple bites a food a day. Decreased thirst and lethargic as well. No vomiting or diarrhea. P appetite did not improve on Cerenia and Carpromorelin Previous Hx of pancreatitis. Today patient was fasted but had PO medications and a pill pocket today just over an hour before scan.

Abnormal PE/Chem/CBC/UA Results: 1/3/2023: CBC wnl/Chem--BUN=53 (N 7-27), CREAT=2.2 (N 0.5-1.8), all else wnl. Abdominal x-rays 1/3/23: poor serosal detail in cranial abdomen; stomach has possible amorphous material or mass effect--P had not eaten since the early morning with just a couple bites and x-ray was taken at 3pm.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**Urinary System**

The urinary bladder was subnormal in size owing to lack of urine distention. Mild anechoic urine was present with no sediment or calculi. No overt neoplastic urinary bladder changes noted. Urethra was normal to a depth of 2.0 cm. No evidence of medial iliac or sublumbar lymphadenopathy.

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 3.1 cm in length. The right kidney measured 3.1 cm in length.

Adrenal Glands

The bilateral adrenal glands exhibited borderline prominent size based on caudal pole width measurement in light of body weight. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. No adrenal tumors noted. The left adrenal gland measured 1.6 cm length x 0.68 cm width in the caudal pole. The right adrenal gland measured 1.2 cm length x 0.56 cm width in the caudal 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. Potential for mild splenic volume contraction.

Liver

The liver exhibited possible borderline enlargement with normal structure, and contour. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild to benign parenchymal remodeling. The hepatic and portal vasculature were normal in appearance without signs of congestion. No hepatic masses or nodules noted.

The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

**PATIENT**

Diane Nowack

SPECIES

Canine

BREED

Shih Tzu

SEX

Spayed Female

AGE

13 Years

WEIGHT

10 Pounds

INTERPRETED BYR. McKenzie Daniel, DVM,
DABVP (Canine and Feline)**IMAGING
PERFORMED BY**

Sarah Pender, CVT

HOSPITAL NAME

SVS Imaging QC

REFERRING VET

Dr. Bock-Vanaria

INVOICE

20529

DATE

1/11/23

Gastrointestinal

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with mild luminal gas. No evidence of retained ingesta, fluid or foreign material. The pylorus wall measured 0.36 cm.

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. The duodenum wall measured 0.40 cm. The jejunum wall measured 0.34 cm.

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

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.

Free Abdomen

No omental masses, lymphadenopathy or peritoneal effusion was present.

ULTRASONOGRAPHIC FINDINGS

- Mild chronic renal changes
- Overtly normal gastrointestinal tract
- Mild hepatic parenchymal remodeling, potential mild benign hepatomegaly
- Sonographically normal gallbladder
- Heterogenous pancreas- parenchymal remodeling owing to previous inflammatory episode. Potential for persistent low grade/chronic pancreatitis

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Overall, no structural evidence of significant disease, i.e., intraabdominal masses or neoplastic criteria. Assessment for evidence of cranial abdominal or subxiphoid discomfort on palpation in the area of the pancreas, as well as recheck spec CPL is suggested. Possibility of low grade inflammatory gastroenteropathy could be present, yet no evidence of gastrointestinal mural changes or metabolic/mechanical intestinal ileus. Three-view chest radiographs and thorough musculoskeletal/neurological examination to rule out occult disease as a contributing factor, may be considered. Empirically, as needed gastrointestinal support and therapy for potential low grade/chronic pancreatitis would be reasonable. Full urinary work up, including baseline culture, sensitivity and UPC level for additional renal staging is recommended.



PATIENT

Diane Nowack

SPECIES

Canine

BREED

Shih Tzu

SEX

Spayed Female

AGE

13 Years

WEIGHT

10 Pounds

INTERPRETED BY

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

IMAGING PERFORMED BY

Sarah Pender, CVT

HOSPITAL NAME

SVS Imaging QC

REFERRING VET

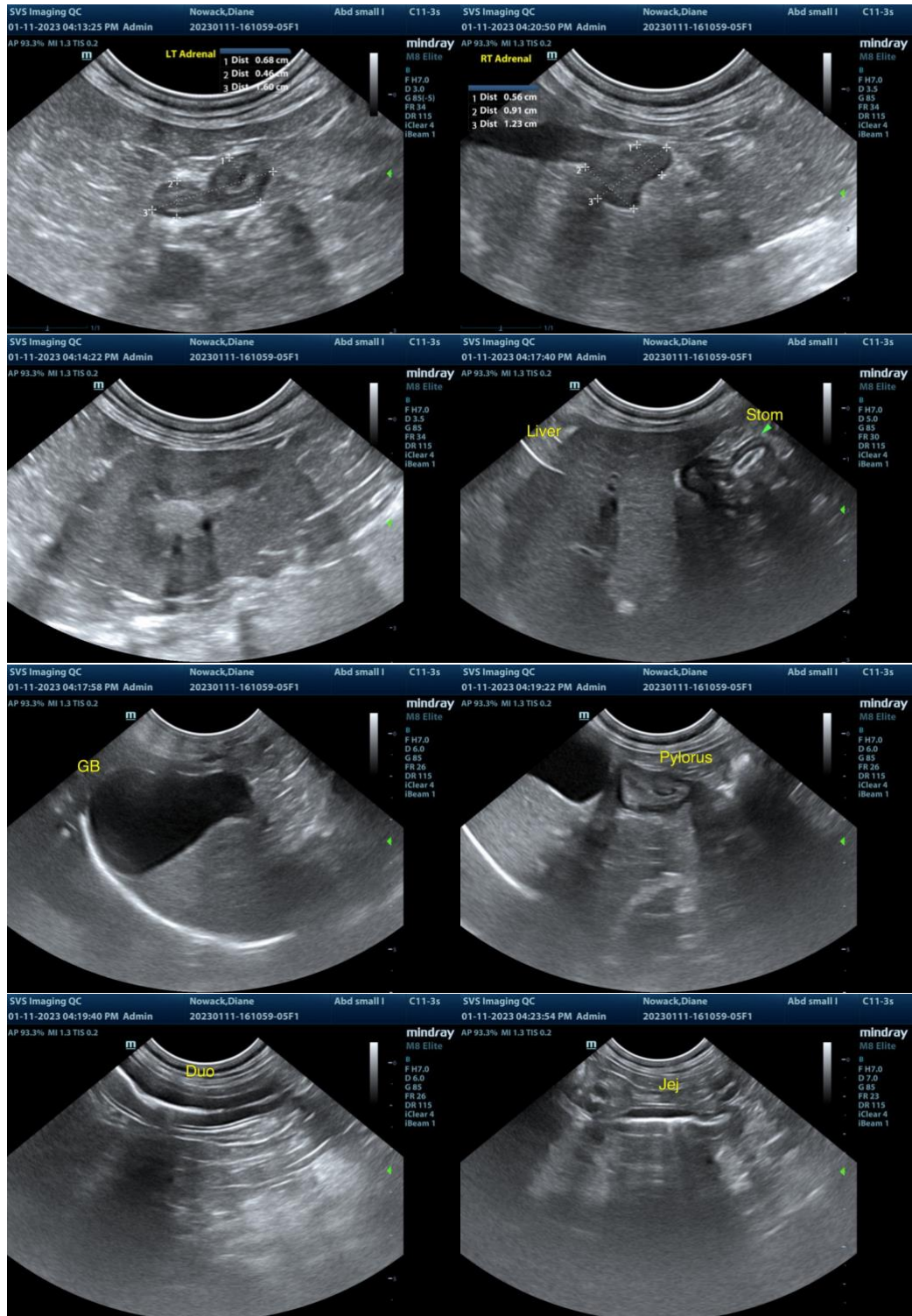
Dr. Bock-Vanaria

INVOICE

20529

DATE

1/11/23





PATIENT

Diane Nowack

SPECIES

Canine

BREED

Shih Tzu

SEX

Spayed Female

AGE

13 Years

WEIGHT

10 Pounds

INTERPRETED BY

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

IMAGING PERFORMED BY

Sarah Pender, CVT

HOSPITAL NAME

SVS Imaging QC

REFERRING VET

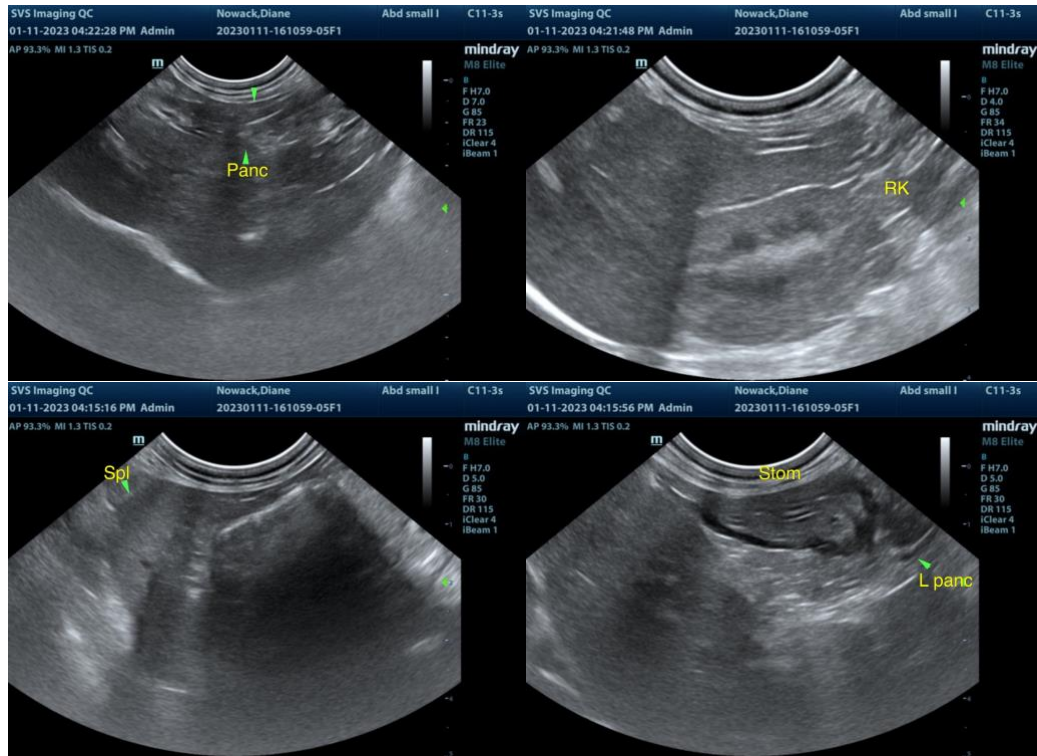
Dr. Bock-Vanaria

INVOICE

20529

DATE

1/11/23



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