



PATIENT PRESENTING CLINICAL SIGNS

Roxy Thomas History of longtime occasional vomiting, intermittent increased thirst, soft stool for 1 year, hypoalbuminemia

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine **Urinary System**

BREED The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 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 was noted.

Pug

SEX The area of the aortic trifurcation was free of pathology.

FS 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 4.6 cm in length. The right kidney measured 4.4 cm in length.

AGE

2010

WEIGHT

20.7

Adrenal Glands

The left adrenal gland was not definitively visualized owing to regional periadrenal increased omental artifact secondary to the splenic mass. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 1.5 cm length x 0.39 cm width at the caudal pole.

INTERPRETED BY

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

Spleen

A mass involving the spleen with secondary asymmetrical capsule expansion and disruption was present and measured approximately 9.0-10.0 cm in diameter. The parenchyma of the mass was heterogeneous to mixed echogenic with areas of cavitation. The non-affected spleen exhibited primarily finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. Regional hyperechoic mesentery, which may indicate reactivity mild inflammation with potential for adhesions was present around the splenic mass.

IMAGING PERFORMED BY

Rebekah Jakum, CVT
 ARDMS/RVT

HOSPITAL NAME

Alburtis AH

Liver/ Gallbladder

The liver was subjectively normal in size, 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. The gallbladder was non-distended in size with mild gallbladder debris, which is likely incidental owing to fasting or nonclinical cholestasis. The cystic and common bile ducts were normal.

REFERRING VET

Dr. Borelli

INVOICE

13549

DATE

3/24/22



PATIENT *Gastrointestinal*

Roxy Thomas The stomach presented intact wall layering with a normal wall layer ratio. The stomach contained mild to moderate luminal gas with no signs of ileus, obstruction, or foreign material. Mild gastric displacement secondary to the splenic mass is possible.

SPECIES

Canine 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. Minor segmental nonspecific duodenojejunal mucosal speckling was present.

BREED

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

Pancreas

SEX 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 were evident.
FS

AGE *Free Abdomen*

2010 Mild associated perisplenic free fluid was present.
 Rapid view of the heart revealed no evidence of pericardial masses or effusion in the visible window.

WEIGHT

20.7

ULTRASONOGRAPHIC FINDINGS

Primary Findings

INTERPRETED BY

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

- Moderately sized cavitated splenic mass with regional perisplenic hyperechoic mesentery, possible omental adhesions
- Overtly normal gastrointestinal tract with potential for mild gastric displacement secondary to the splenic mass and mild nonspecific duodenojejunal mucosal speckling
- Mild chronic renal changes
- Hepatic parenchymal remodeling - subjectively benign
- Minor gallbladder debris - incidental

IMAGING PERFORMED BY

Rebekah Jakum, CVT
 ARDMS/RVT

HOSPITAL NAME

Alburtis AH

REFERRING VET

Dr. Borelli

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Although histopathology is required for definitive diagnosis, the splenic mass is most suggestive of neoplasia such as sarcoma or other. Benign pathologies are possible, yet considered less likely. Overt evidence of major organ metastasis was not definitively evident, yet potential for regional perisplenic omental seeding or micrometastasis cannot be excluded. Potential for concurrent nonspecific inflammatory gastroenteropathy is possible.

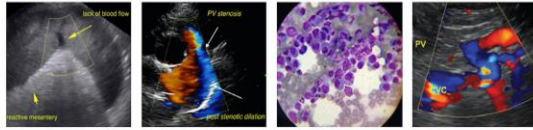
INVOICE

13549

Assuming no evidence of pathology on three-view chest radiographs, laparotomy with splenectomy, as well as Intestinal biopsies could be considered.

DATE

3/24/22



PATIENT

Roxy Thomas

SPECIES

Canine

BREED

Pug

SEX

FS

AGE

2010

WEIGHT

20.7

INTERPRETED BY

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

IMAGING PERFORMED BY

Rebekah Jakum, CVT
ARDMS/RVT

HOSPITAL NAME

Alburtis AH

REFERRING VET

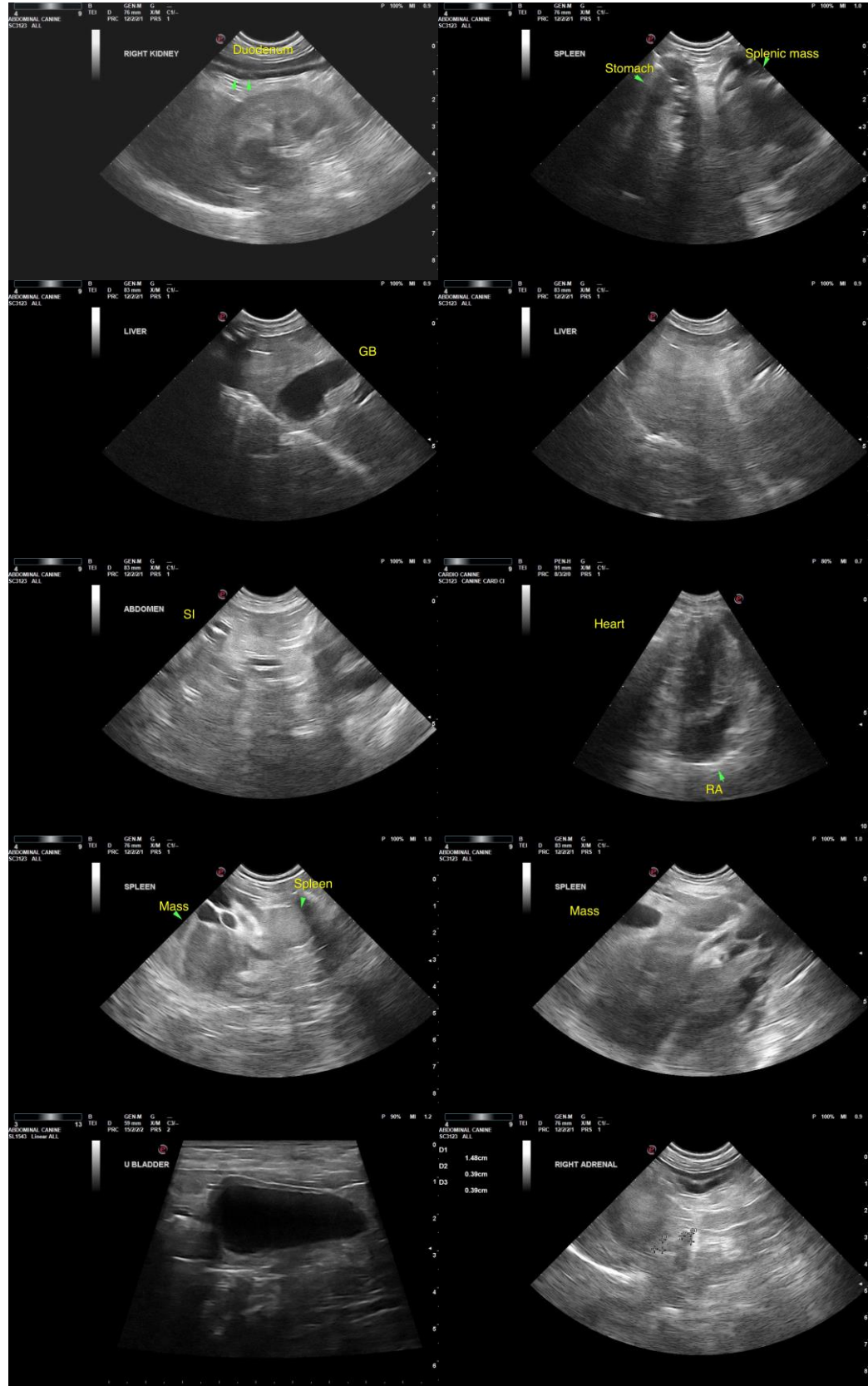
Dr. Borelli

INVOICE

13549

DATE

3/24/22





PATIENT

Roxy Thomas

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.

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.

BREED

Pug

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)
mac.daniel@sonopath.com

SEX

FS

AGE

2010

WEIGHT

20.7

INTERPRETED BY

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

**IMAGING
PERFORMED BY**

Rebekah Jakum, CVT
ARDMS/RVT

HOSPITAL NAME

Alburtis AH

REFERRING VET

Dr. Borelli

INVOICE

13549

DATE

3/24/22