



**PATIENT PRESENTING CLINICAL SIGNS**

Mika Sergent History: Pre renal azotemia, increased liver values, ADR, hypothyroid, current leptovaccination status  
Unremarkable CBC

**SPECIES** Chemistry Panel- BUN 35, Creatinine 2.1, SDMA 17, Na/K ratio 27, ALT 1251, AST 275, ALP normal  
Canine GGT 21, TBili 0.7, T4 (<0.4)

**BREED ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

Pitbull **Urinary System**

**SEX** The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 5.0 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.  
FS

**AGE** The area of the aortic trifurcation was free of pathology.

5 years 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 5.6 cm in length. The right kidney measured 6.3 cm in length.

**WEIGHT**

73.5 Pounds

**Adrenal Glands**

**INTERPRETED BY**

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

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.58 cm width at the caudal pole and 0.42 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 0.63 cm width at the caudal pole and 0.50 cm width at the cranial pole.

**IMAGING PERFORMED BY**

Rebekah Jakum, CVT  
ARDMS/RVT

**Spleen**

**HOSPITAL NAME**

Lehigh Valley AH  
(Bath)

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.

**REFERRING VET**

Dr. Tan

**Liver/ Gallbladder**

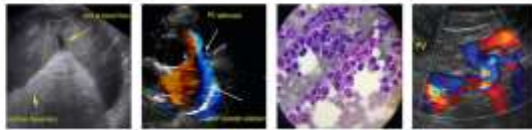
**INVOICE**

12426

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

**DATE**

10.21.2021



**PATIENT**

***Gastrointestinal***

Mika Sergent

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.

**SPECIES**

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.

Canine

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

**BREED**

***Pancreas***

Pitbull

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.

**SEX**

FS

***Free Abdomen***

No overt lymphadenopathy or peritoneal effusion was present.

**AGE**

5 years

**ULTRASONOGRAPHIC FINDINGS**

***Primary Findings***

**WEIGHT**

73.5 Pounds

- Sonographically unremarkable bilateral kidneys and urinary bladder
- Subjective subnormal liver - consistent with chronic hepatopathy

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Further renal staging including full urinalysis, urine C/S and baseline UPC is recommended. Resting cortisol level with full ACTH Stimulation test, if resting cortisol is <2.0, is recommended.

The subjective subnormal liver size in light of the elevated ALT/AST combination is suggestive of chronic nonspecific hepatitis (infectious, immune-mediated, etc.), with some degree of nonclinical cholestasis. No overt evidence of hepatic neoplastic criteria was noted. Fasting and post prandial bile acids to assess hepatic functionality may be considered, although overall hepatic functionality is likely normal, given the normal glucose level, elevated BUN, normal albumin, and cholesterol levels.

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Rebekah Jakum, CVT  
ARDMS/RVT

**HOSPITAL NAME**

Lehigh Valley AH  
(Bath)

**REFERRING VET**

Dr. Tan

24-48 hour hospitalization with as-needed supportive care and IV fluids with a reassessment of azotemia may prove beneficial.

**INVOICE**

12426

**DATE**

10.21.2021



**PATIENT**

Mika Sergent

**SPECIES**

Canine

**BREED**

Pitbull

**SEX**

FS

**AGE**

5 years

**WEIGHT**

73.5 Pounds

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Rebekah Jakum, CVT  
ARDMS/RVT

**HOSPITAL NAME**

Lehigh Valley AH  
(Bath)

**REFERRING VET**

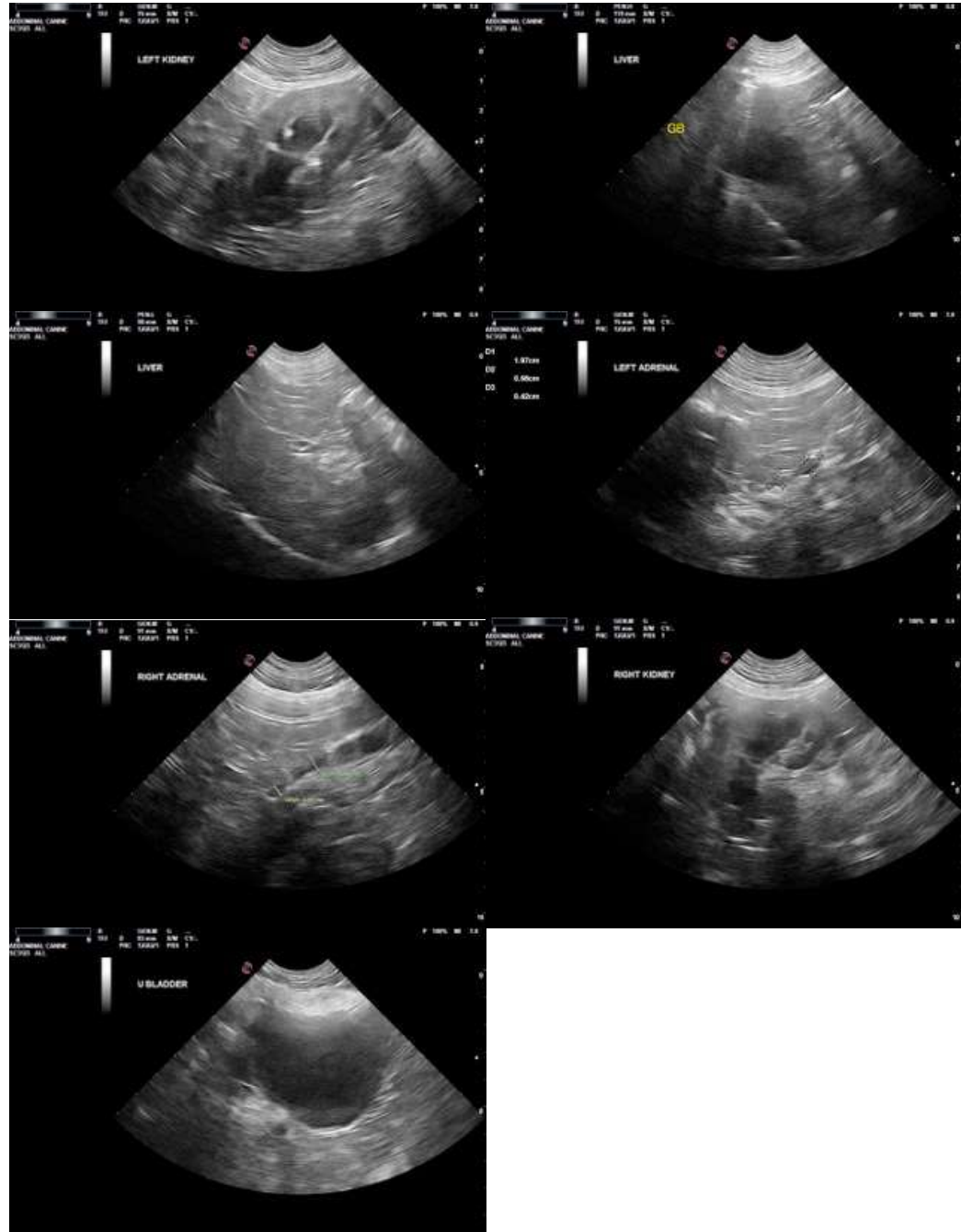
Dr. Tan

**INVOICE**

12426

**DATE**

10.21.2021



**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.



**PATIENT**

**R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)**

[mac.daniel@sonopath.com](mailto:mac.daniel@sonopath.com)

Mika Sergent

**SPECIES**

Canine

**BREED**

Pitbull

**SEX**

FS

**AGE**

5 years

**WEIGHT**

73.5 Pounds

**INTERPRETED BY**

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

**IMAGING  
PERFORMED BY**

Rebekah Jakum, CVT  
ARDMS/RVT

**HOSPITAL NAME**

Lehigh Valley AH  
(Bath)

**REFERRING VET**

Dr. Tan

**INVOICE**

12426

**DATE**

10.21.2021