



PATIENT	PRESENTING CLINICAL SIGNS
Holly Ryan	Elevated ALT. Current meds: Dasuquin Abnormal PE/Chem/CBC/UA Results: ALT 257, Glu 65, Neut 59%
SPECIES	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Canine	Urinary System
BREED	The urinary bladder is moderately distended with anechoic contents. No masses, inflammatory changes, echogenic sediment or cystoliths are observed. The urinary bladder, trigone and visible pelvic urethra are normal in thickness with a smooth mucosal surface.
German Shepherd	The right kidney is normal in size (7.95 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.
SEX	The left kidney is normal in size (7.521 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.
Spayed Female	
AGE	Adrenal Glands
11 Years	The right adrenal gland is normal in size (3.25 cm long x 0.60 cm at the cranial pole and 0.82 cm at the caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.
WEIGHT	The left adrenal gland is normal in size (3.12 cm long x 0.54 cm at the cranial pole and 0.67 cm at the caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.
77.5 Pounds	
INTERPRETED BY	Spleen
Beth Johnson, DVM DACVIM	The spleen is subjectively normal in size with a normal smooth capsular contour. Parenchyma is appropriately finely textured and homogenous with normal echogenicity relative to surrounding tissue (hyperechoic to liver). No focal nodules or masses are observed. Splenic vasculature appears normal.
IMAGING PERFORMED BY	Liver
Jessica Miller	The liver is subjectively normal in size with normal smooth curvilinear peripheral contour. Parenchyma is appropriately hypoechoic to the spleen in echogenicity and appropriately mildly coarse and homogenous in echotexture. No focal lesions are observed. Visible vasculature and biliary tree appear normal without distension or congestion.
HOSPITAL NAME	Gastrointestinal
Summit Dog & Cat Hospital	The gallbladder is non-distended in size. The wall is smooth without visible thickening. Luminal contents are primarily anechoic. There is no evidence of cystic or common bile duct dilation.
REFERRING VET	
Dr. Lepkowski	
INVOICE	The stomach wall is normal in thickness (canine < 0.5 cm and feline < 0.4 cm) and layering. The lumen of the stomach is empty with no evidence of obstruction, foreign material or infiltrative disease. Pyloric outflow tract appears patent.
42660	
DATE	The visible small intestines are normal in wall thickness and layering (canine duodenum < 0.5 cm and feline duodenum < 0.4 cm; other < 0.3 cm). Small intestinal motility appears adequate (1-3 contractions per min). The lumen of the small intestine is empty with no evidence of obstruction, foreign material or infiltrative disease.
11/9/22	



PATIENT

Holly Ryan The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.

SPECIES

Pancreas

Canine

The pancreatic parenchyma is appropriately isoechoic to surrounding tissue. Visible capsule is smooth and normal in contour. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.

BREED

German Shepherd

Free Abdomen

There is no evidence of free peritoneal effusion noted in these images.

SEX

There is no apparent lymphadenopathy noted in these images.

Spayed Female

ULTRASONOGRAPHIC FINDINGS

- Normal/unremarkable abdomen
- An obvious cause for the reported increased liver enzymes is not identified in these images. Microscopic disease such as Leptospirosis, bacterial cholangiohepatitis, chronic active hepatitis, copper-associated hepatotoxicity, other hepatotoxicity, infiltrative neoplasia (considered unlikely), etc. cannot be definitively ruled out.

AGE

11 Years

WEIGHT

77.5 Pounds

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Given this patient's reportedly increased ALT and hypoglycemia, bile acids are recommended for further assessment of hepatic function. Additionally, testing for Leptospirosis is warranted. If the blood glucose is truly low versus sample handling, and bile acids are normal, a paired insulin to glucose ratio at a time when the blood glucose is <50 is recommended, as is a baseline cortisol. If baseline cortisol is less than 2, a full ACTH stimulation test is recommended to rule out hypoadrenocorticism.

In the meantime, empirical deworming with a 5-day course of Panacur and empirical hepatic nutraceuticals are recommended while awaiting results.

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Jessica Miller

HOSPITAL NAME

Summit Dog & Cat
Hospital

REFERRING VET

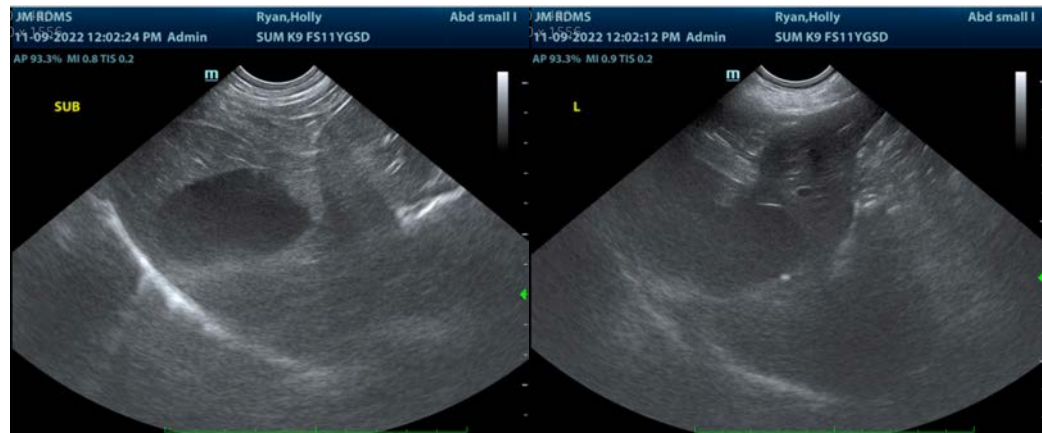
Dr. Lepkowski

INVOICE

42660

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PATIENT

Holly Ryan

SPECIES

Canine

BREED

German Shepherd

SEX

Spayed Female

AGE

11 Years

WEIGHT

77.5 Pounds

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Beth Johnson, DVM
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Hospital

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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.

Beth Johnson, DVM, DACVIM
Beth.Johnson@sonopath.com