



**PATIENT PRESENTING CLINICAL SIGNS**

Skip Berlin History: Known hemangiosarcoma. Increased ALT (mild) and cholesterol.

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Canine Urinary System**

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 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 were noted. Aortic trifurcation was normal. No evidence of medial iliac or sublumbar lymphadenopathy.

**BREED**

Standard Poodle

**SEX**

No overt pathology in the area of the residual prostate.

Neutered Male

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 7.0 cm in length. The right kidney measured 7.5 cm in length.

**AGE**

11 Years

**Adrenal Glands**

**WEIGHT**

34.2 kg

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.69 cm width at the caudal pole and 0.83 cm width at the cranial pole.

No overt pathology in the area of the right adrenal gland, although not definitively visualized owing to patient conformation.

**INTERPRETED BY**

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

**Spleen**

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.

**IMAGING PERFORMED BY**

Dave Stasiuk, RDMS,  
RDCS

**Liver**

The liver exhibited mild generalized enlargement with normal structure and contour. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and generalized mild parenchymal remodeling. A mildly expansive to asymmetrical hypoechoically nodular mass lesion was present in the area of the ventral, to ventral caudal left liver, measuring approximately 6.0-7.0 cm in length x 4.0 cm in width. The mass appeared to mildly asymmetrically distort the adjacent hepatic capsule. Overt evidence of parenchymal escape or associated perihepatic free fluid was not overtly evident. No other evidence of intraparenchymal hepatic masses or nodules noted. Subtle evidence of perihepatic reactive mesentery noted around the ventral to ventral caudal left liver mass lesion.

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The gallbladder was non distended in size with mild dependent debris/mucus. The gallbladder was otherwise normal. The cystic duct and common bile ducts were normal without evidence of dilation.

**Gastrointestinal**

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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**

Canine

The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. Subjective generalized subtly prominent small bowel gas pattern was noted. No evidence of mechanical/metabolic ileus.

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

**BREED**

***Pancreas***

Standard Poodle

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.

**SEX**

Neutered Male

***Free Abdomen***

No omental masses, lymphadenopathy or evidence of perihepatic to peritoneal free fluid was present.

**AGE**

11 Years

**ULTRASONOGRAPHIC FINDINGS**

- Nodular to mildly expansive ventral to ventral caudal left liver mass lesion with associated mild asymmetrical hepatic capsule distortion
- Sonographically unremarkable spleen
- Mild age-related kidneys

**WEIGHT**

34.2 kg

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**INTERPRETED BY**

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

Given the patients history, strong concern for concurrent primary or metastatic left liver neoplastic lesion (i.e., metastatic to possible multicentric hemangiosarcoma). Additional neoplastic etiologies, as well as benign etiologies possible yet thought less likely. Generalized mild inflammatory hepatopathy possible given the mild ALT elevation.

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RDCS

Assuming normal clotting status and using a 25-gauge needle, further assessment with ultrasound guided FNA of the mass lesion +/- hepatic parenchymal and screening splenic FNA for cytology warranted. Three-view chest radiographs suggested to assess for or rule out concurrent thoracic pathology/metastasis as well assess cardiopulmonary status.

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Guarded prognosis, pending cytology of the liver mass lesion.

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Surgery and/or oncology consult could be considered, if clinically indicated, as subjectively the hepatic mass lesion appeared to be possibly amendable to complete surgical resection and without overt evidence of additional intraabdominal metastasis.

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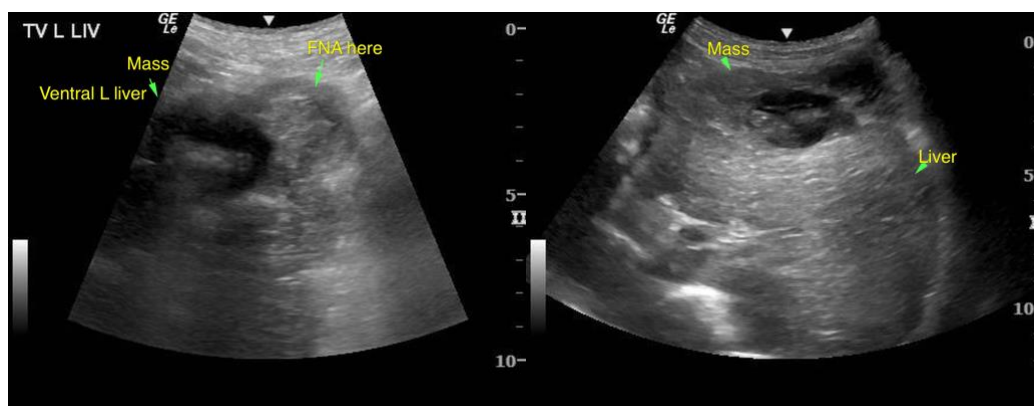
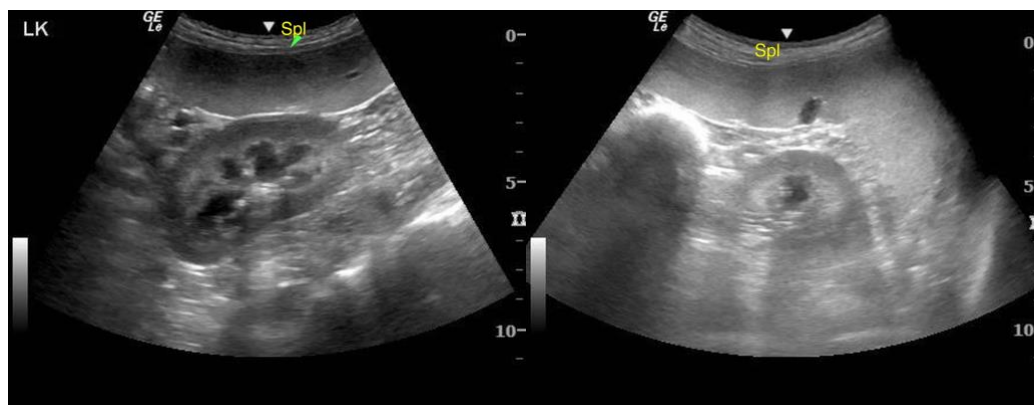
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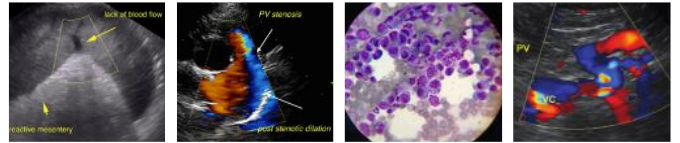
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The information and recommendations provided are based on the images presented by the



**PATIENT**

Skip Berlin

**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.

**SPECIES**

Canine

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

**info@SonoPath.com**

**BREED**

Standard Poodle

**SEX**

Neutered Male

**AGE**

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**WEIGHT**

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