



PATIENT	PRESENTING CLINICAL SIGNS
Sierra Tillotson	History: Has had a history of seizures last 6 months on phenobarbital. Seisures have returned despite good regulation on meds.
SPECIES	Abnormal PE/Chem/CBC/UA Results: mild elevation of kidney enzymes and moderate to severe elevation od liver enzymes. UA high WBC count.
Canine	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
BREED	Urinary System
Shepherd X	The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra 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.
SEX	
Spayed Female	The right kidney exhibited mild subnormal size compared to the left kidney. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and moderate loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. A solitary lateral cortical infarct was present in the left kidney. Pinpoint areas of medullary mineral were noted. A small thinly walled cortical cyst was present in the right kidney. The left kidney measured 6.6 cm in length. The right kidney measured 5.3 cm in length.
AGE	
13 Years	
WEIGHT	Adrenal Glands
41 kg	The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.68 cm width at the caudal pole and 0.78 cm width at the cranial pole.
INTERPRETED BY	The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.74 cm width at the caudal pole.
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	Spleen
IMAGING PERFORMED BY	The spleen exhibited subjective borderline regional enlargement, primarily in the area of the hilus with maintained symmetrical capsule contour and overall finely textured mildly heterogeneous parenchyma. No splenic masses or nodules were noted. Splenic vascularity was normal.
Dr. Belan	
HOSPITAL NAME	Liver
Chaparral VC	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. A moderately sized to expansive nonhomogeneous to mixed echogenic diffusely cystic appearing mass was present in the mid to right liver. Minor associated hepatic capsule distortion yet without overt evidence of hepatic capsule escape. The mass measured approximately 8-9 cm in diameter.
REFERRING VET	
Dr. Gadzheva	
INVOICE	The mass appeared to impinge slightly upon the caudal aspect of the gallbladder, yet the gallbladder was normal in size and overall presentation without evidence of impedance to bile outflow. The cystic and common bile ducts were normal.
16256	
DATE	Gastrointestinal
6/23/22	



PATIENT

Sierra Tillotson

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. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material.

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

Pancreas

BREED

Shepherd X

The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.

Free Abdomen

SEX

Spayed Female

No overt lymphadenopathy or peritoneal effusion was present.

ULTRASONOGRAPHIC FINDINGS

AGE

13 Years

- Nonhomogeneous cystic to cavitated liver mass- nonspecific cystic biliary adenoma, cystic biliary adenocarcinoma, complex large hepatic cyst, hemangioma/hemangiosarcoma, unlikely hydatid disease versus other benign versus neoplastic etiologies possible

WEIGHT

41 kg

- Bilateral moderate chronic renal changes with left kidney cortical infarct and small right kidney cyst

- Borderline mild splenomegaly- subjectively benign, patient variant, hyperplasia, hematopoiesis, incidental splenitis, regional hypersplenism possible. No overt evidence of splenic neoplastic criteria.

INTERPRETED BY

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

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Ultrasound guided FNA of the solid hepatic mass parenchyma could be considered for screening cytology +/- collection of fluid for cytospin cytology +/- culture and sensitivity. Subjectively, potential resectability of the hepatic mass appears to be questionable given its subjective involvement of more than one liver lobe and potential extension into the area of the gallbladder and portohepatis.

IMAGING PERFORMED BY

Dr. Belan

Given the recurrence of seizure activity, fasting and post prandial bile acids could be considered to assess hepatic functionality, given the severely elevated liver enzymes. Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered.

HOSPITAL NAME

Chaparral VC

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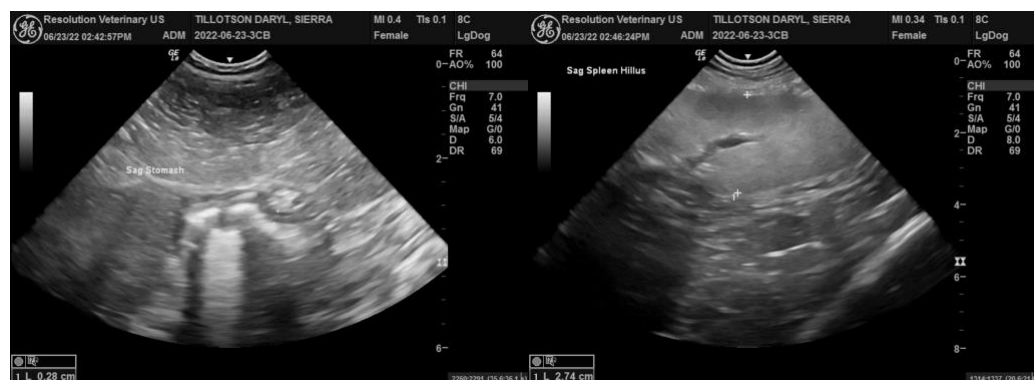
Dr. Gadzheva

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SPECIES

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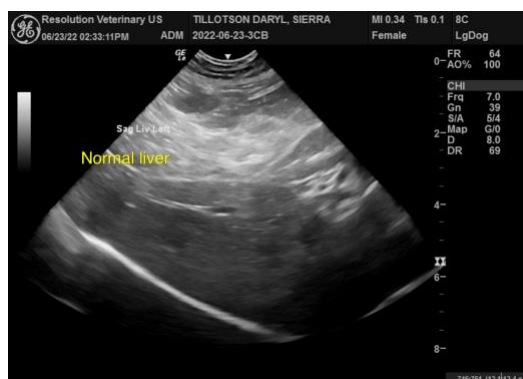
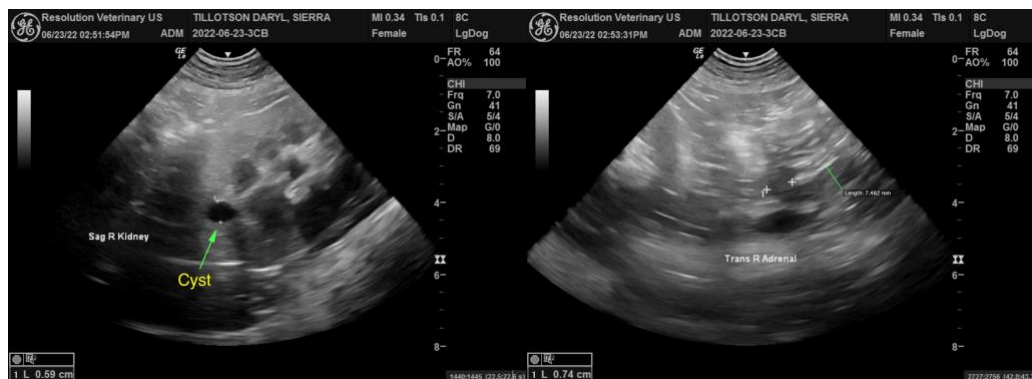
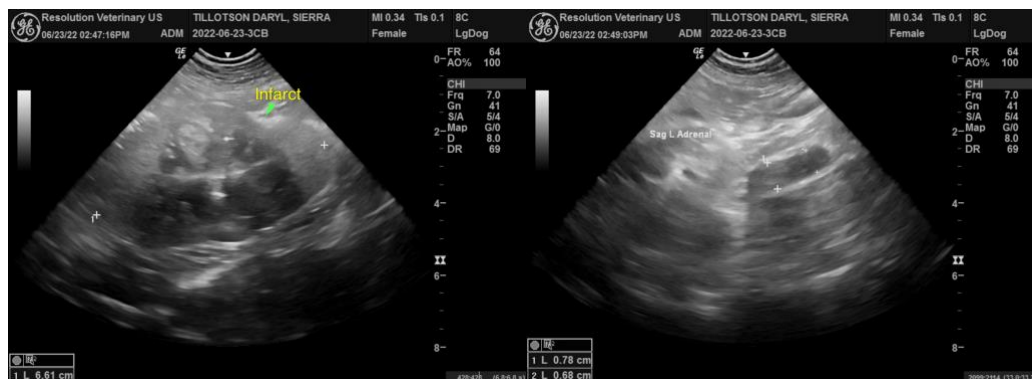
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not



PATIENT

visible in the image/video clips provided.

Sierra Tillotson

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

Shepherd X

SEX

Spayed Female

AGE

13 Years

WEIGHT

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