



PATIENT PRESENTING CLINICAL SIGNS

Sadie Erb worsening elevations in ALT/ALP, descreet abd mass observed on AFAST, unsure if liver or spleen or other

SPECIES Abnormal PE/Chem/CBC/UA Results: elevated PCT, ALT, ALP, amyl, lip spec cPL 1855

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED *Urinary System*

Cockapoo 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 was noted.

SEX

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

AGE

11 years 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 4.8 cm in length. The right kidney measured 5.3 cm in length.

WEIGHT

11 kg

Adrenal Glands

The bilateral adrenal glands were normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry were present without suspicion for overt neoplasia. The left adrenal gland measured 2.3 cm length x 0.60 cm width in the caudal pole. The right adrenal gland measured 2.0 cm length x 0.71 cm width in the caudal pole.

INTERPRETED BY

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Dr. Van Hausen

Spleen

The spleen exhibited primarily finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. An echogenic nodule was present in the mid-medial spleen. 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 or neoplastic changes were not noted. The echogenic nodules tend to trend benign and are most consistent with benign hyperplasia or myelolipomas. No splenic masses were noted.

Liver/ Gallbladder

The liver presented enlarged in size. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. A solitary nonhomogeneous to mixed echogenic, mildly lobulated-appearing mass in the deep mid liver was present. Focal mild cystic component within the mass was noted with distortion of surrounding hepatic parenchyma. The mass measured 5.5 - 6.0 cm in diameter. The mass was noted directly adjacent to the cranioventral diaphragm. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion.

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PATIENT The gallbladder was non distended in size containing primarily anechoic content with mild luminal debris. Otherwise, the gallbladder was normal. The cystic duct and common bile ducts were normal without evidence of dilation.

Sadie Erb

SPECIES *Gastrointestinal*

Canine 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.

BREED 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.

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

SEX *Pancreas*

FS The right pancreatic limb was prominent in size with subtle asymmetrical capsule contour and nonhomogeneous hypoechoic parenchyma.

AGE *Free Abdomen*

11 years No overt lymphadenopathy or peritoneal effusion was present.

WEIGHT **ULTRASONOGRAPHIC FINDINGS**

- Hepatomegaly with deep to mild intraparenchymal mass
- Minor gallbladder debris - incidental
- Mild age-related kidneys
- Benign splenic nodule - consistent with benign myelolipoma
- Nonhomogeneous to hypoechoic right pancreas - possible low-grade pancreatitis

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The overall liver, including the mid intraparenchymal mass, was nonspecific with considerations including generalized vacuolar hepatopathy, inflammatory / immune mediated disease, nodular hyperplasia granuloma, hematopoiesis, or neoplasia i.e., carcinoma or other.

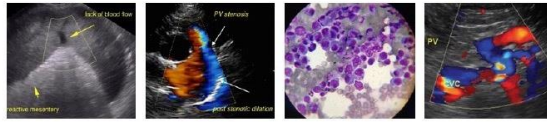
Assuming normal clotting status and if accessible, ultrasound-guided FNA of the hepatic parenchyma as well as the hepatic mass is warranted for screening cytology. Hepatosupportive medications including Denamarin and Ursodiol may prove beneficial. Three view chest radiographs are recommended.

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SPECIES

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BREED

Cockapoo

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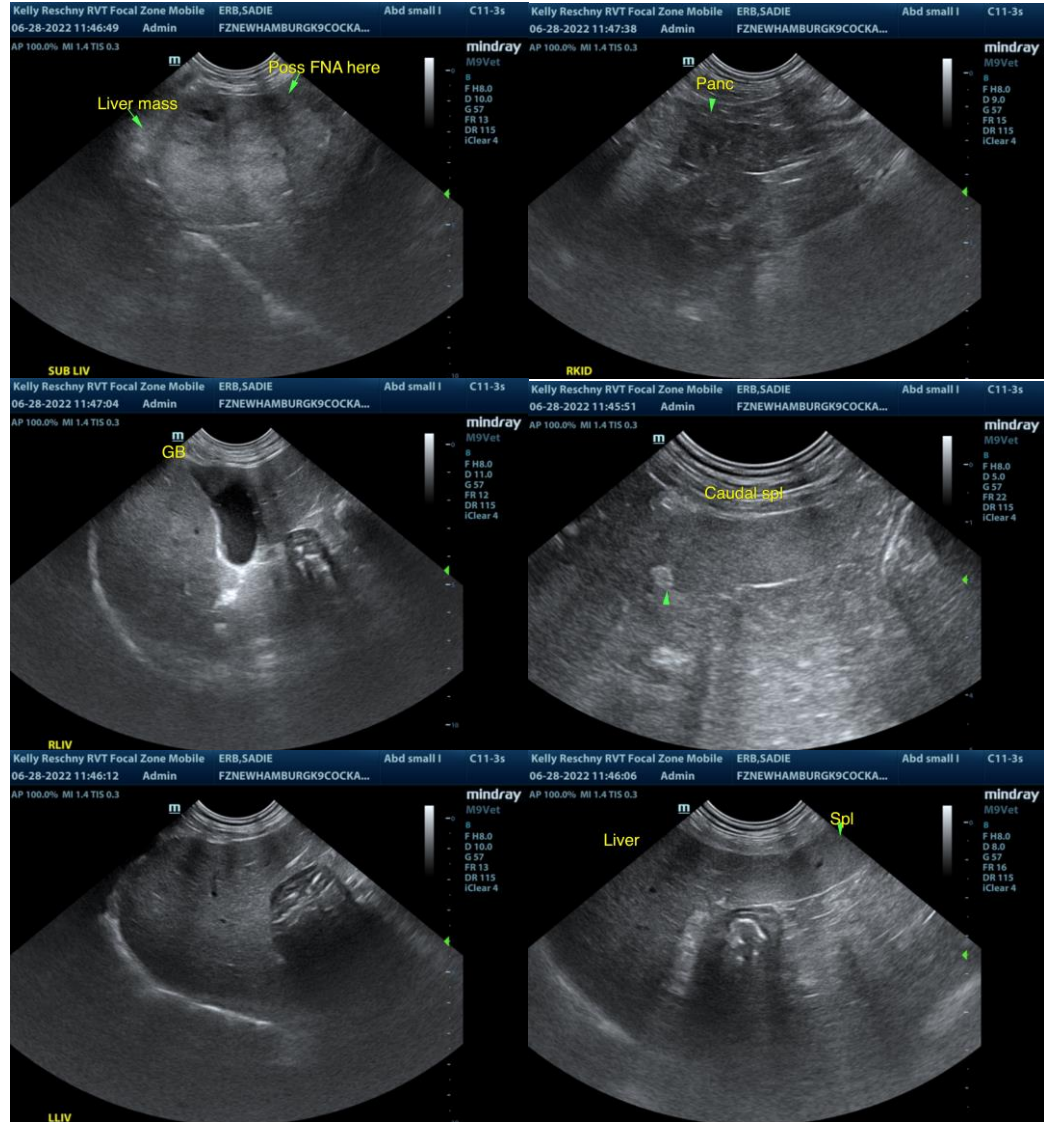
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SPECIES

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SEX

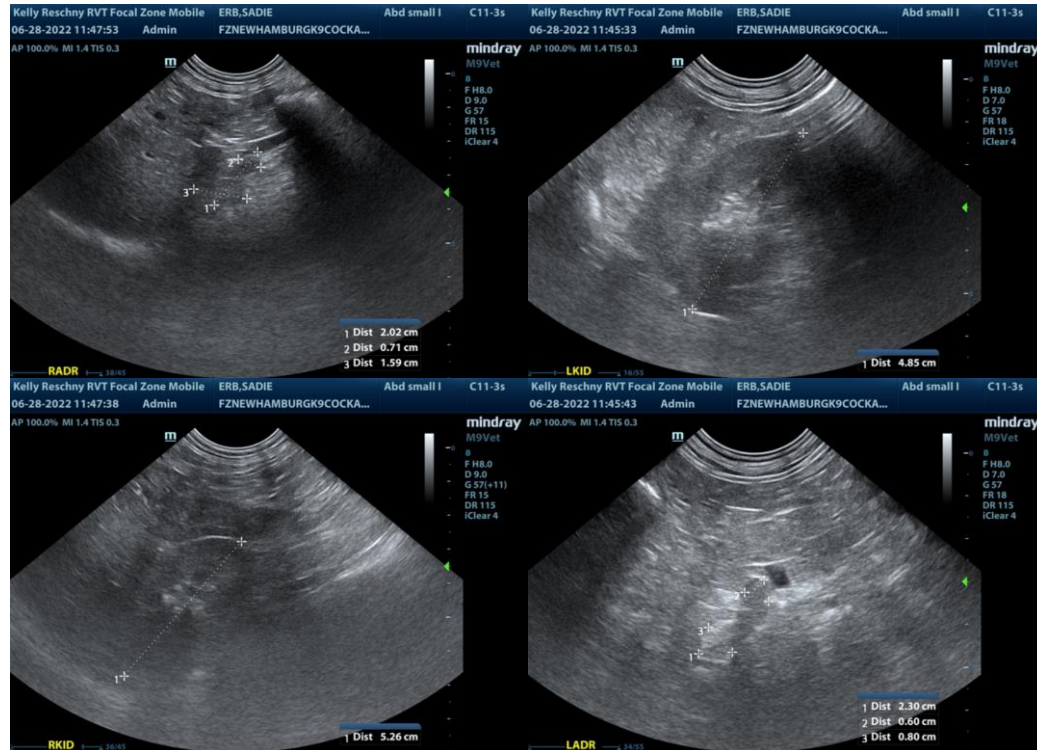
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AGE

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WEIGHT

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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.

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