



PATIENT PRESENTING CLINICAL SIGNS

Sweetie 2 Hoosier DX with cushing's trying to differentiate between adrenal or pituitary dependent

SPECIES Current Medications Denamarin

Canine Abnormal PE/Chem/CBC/UA Results: Elevated ALT

BREED ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Australian Shepherd

SEX *Urinary System*

FS

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3 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.

AGE

10yr

Normal size and margination was 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. Bilateral pinpoint medullary mineral was present. The left kidney measured 7.6 cm in length. The right kidney measured 7.8 cm in length.

WEIGHT

81lb

The area of the aortic trifurcation was free of pathology.

INTERPRETED BY *Adrenal Glands*

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 0.72 cm width at the caudal pole and 2.6 cm length.

The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.71 cm width at the caudal pole and 2.5 cm length.

IMAGING PERFORMED BY *Spleen*

Jenna Walsh CVT

The spleen exhibited generalized enlargement with a primarily finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Multifocal, well-defined, symmetrical, hyperechoic nodules were present throughout the medial 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 or neoplastic changes were not noted. The echogenic nodules tend to trend benign and are most consistent with benign hyperplasia or myelolipomas.

HOSPITAL NAME *Liver*

West Salem Animal
Clinic

REFERRING VET

Dr. Crane

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. Intermittent discrete non-disruptive hyperechoic nodule was present likely consistent with benign lipogranuloma. A moderately sized mixed echogenic mass occupying the majority of the mid to right liver measuring 11-12 cm in diameter was present exhibiting intermittent minor cystic component. 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.

INVOICE

11963ag

DATE

10/20/2022



PATIENT

Sweetie 2 Hoosier

The gallbladder was non-distended in size with primarily anechoic luminal content. The cystic and common bile ducts were normal.

Gastrointestinal

SPECIES

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

Australian Shepherd

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.

SEX

FS

Pancreas

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

AGE

10yr

Free Abdomen

No overt lymphadenopathy was present.

WEIGHT

81lb

A small pocket of scant perihepatic free fluid was noted.

Rapid view of the heart revealed no evidence of pericardial masses or effusion in the visible window.

INTERPRETED BY

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

ULTRASONOGRAPHIC FINDINGS

- Bilateral normal adrenal size based on caudal pole width measurement-no adrenal tumors
- Hepatomegaly exhibiting mid to right non-homogeneous liver mass
- Mild chronic renal changes
- Benign splenic nodules consistent with probable myelolipomas

IMAGING PERFORMED BY

Jenna Walsh CVT

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No evidence of adrenal tumors or overt adrenomegaly was present. Given reported diagnosis for Cushing's syndrome the adrenal glands are most consistent with pituitary dependent hyperadrenocorticism. The hepatic mass may indicate benign vs malignant criteria. Assuming normal clotting status and using a 25g needle, a hepatic mass FNA for screening cytology is warranted for further assessment. Three view chest radiographs are recommended if not done to assess for occult thoracic pathology.

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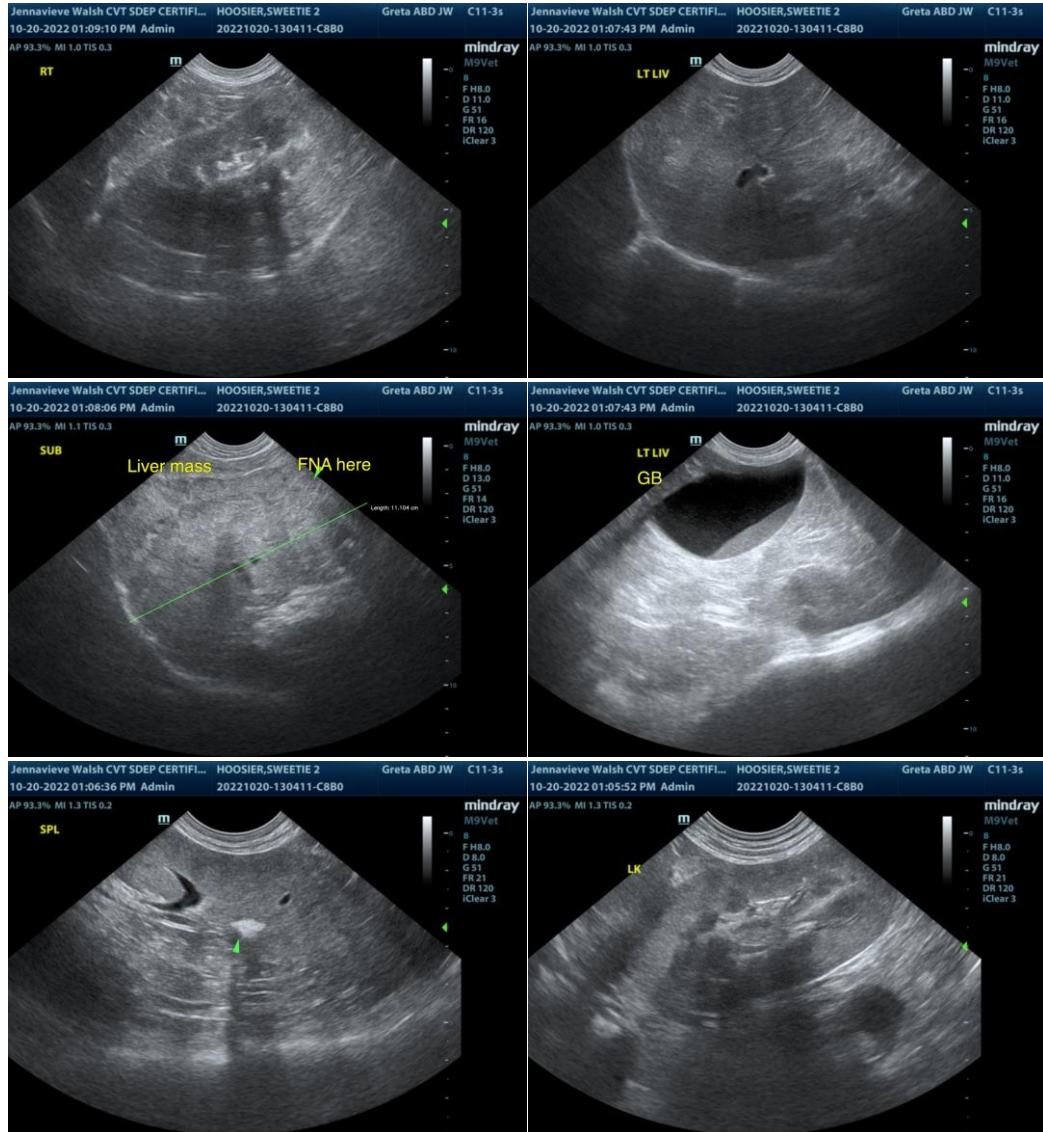
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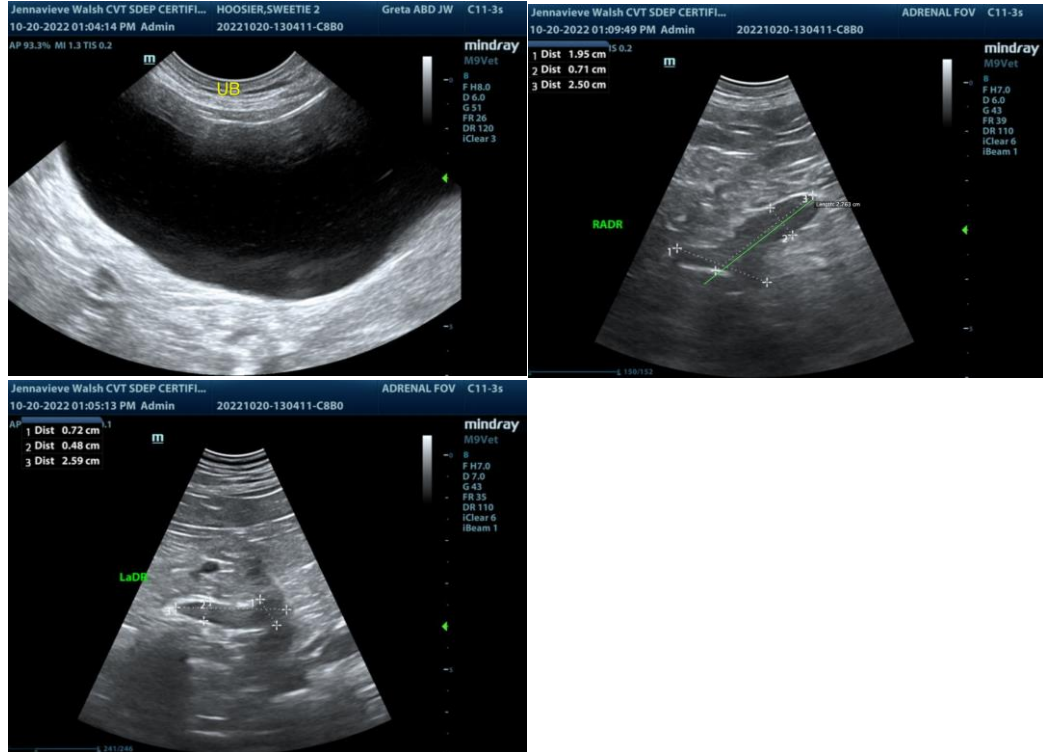
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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

info@SonoPath.com