



PATIENT PRESENTING CLINICAL SIGNS

Walter Huffstutler Cushingoid, elevated liver values, pre surgical Enalapril 2.5, Vetoryl, Ursodial, VitE, omeprazole, Denamarin

SPECIES ALP 555, ALT 362, Triglycerides 330

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED *Urinary System*

Chihuahua Mix The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 4.0 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

MN

The residual prostate was free of overt pathology, measuring 1.0 cm in diameter.

AGE

2007

The area of the aortic trifurcation was free of pathology.
 Normal size with areas of asymmetrical renal margination were present in the kidneys. A moderate to marked loss of corticomedullary border demarcation was present with mildly nonuniform corticomedullary parenchyma echotexture. Multiple small to variably sized cortical cysts were present. The left kidney measured 5.8 cm in length. The right kidney measured 5.6 cm in length.

WEIGHT

15

Adrenal Glands

INTERPRETED BY

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

The left adrenal gland was enlarged in size with asymmetrical contour and Indistinct capsule margination. Nonhomogeneous parenchyma was present. Evidence of mild periadrenal reactivity was noted. The left adrenal gland measured approximately 2.6 cm x 2.6 cm.

The right adrenal gland was enlarged in size with nonhomogeneous parenchyma. Potential for phrenicoabdominal vein Invasion associated with the right adrenal gland is noted. The right adrenal gland measured 3.5 cm x 1.75 cm. No overt evidence of left or right adrenal mineralization was noted.

IMAGING PERFORMED BY

Rebekah Jakum, CVT
 ARDMS/RVT

Spleen

HOSPITAL NAME

Conrad Weiser AH

The spleen was normal in size with normal vascularity. Areas of minor asymmetrical lateral and medial capsule contour were noted. Generalized mild parenchyma heterogeneity with multifocal pinpoint hyperechoic parenchyma foci were present.

REFERRING VET

Dr. Watzka

Liver/ Gallbladder

The liver exhibited moderate enlargement. The parenchyma of the liver was hyperechoic comparable to the spleen. The echotexture of the liver parenchyma was uniform with a mild coarse echotexture. Intermittent discrete nondisruptive hypoechoic Intraparenchymal nodules were present. The capsule of the liver was symmetrical in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with primarily anechoic content with mild nondependent mildly hyperechoic luminal debris. The cystic and common bile ducts were normal.

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PATIENT *Gastrointestinal*

Walter Huffstutler 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 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.

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

BREED *Pancreas*

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

SEX *Free Abdomen*

MN No overt lymphadenopathy or peritoneal effusion was present.

AGE **ULTRASONOGRAPHIC FINDINGS**

2007 *Primary Findings*

- Bilateral Irregular adrenomegaly with potential bilateral adrenal masses, suspect potential vascular invasion associated with the right adrenal gland
- Hepatopathy exhibiting intermittent discrete hypoechoic intraparenchymal nodules
- Mild gallbladder debris (non-mucocele)
- Moderate chronic renal changes exhibiting mild medullary mineral, multiple cortical cysts, and mild bilateral pyelectasia

Secondary Findings

- Multiple splenic hyperechoic parenchyma foci - areas of splenic microinfarction, fibrosis, or mineralization, benign
- Minor pancreatic remodeling

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Both adrenal glands were abnormal and revealed potential for bilateral adrenal tumors vs. asymmetrical to irregular benign hyperplasia and with potential for mixed pathologies. Suspect potential vascular (phrenicoabdominal vein) invasion associated with the right adrenal gland. Assessment of systemic BP to evaluate for evidence of hypertension, which may allude to an underlying pheochromocytoma is suggested.

Overall, the appearance of the liver was suggestive of vacuolar hepatitis secondary to chronic Cushing's Disease, although potential for primary or neoplastic criteria cannot be definitively excluded.



PATIENT

Further evaluation may include abdominal CT if possible. Overall anesthetic risk is considered elevated even if normal systemic BP is documented.

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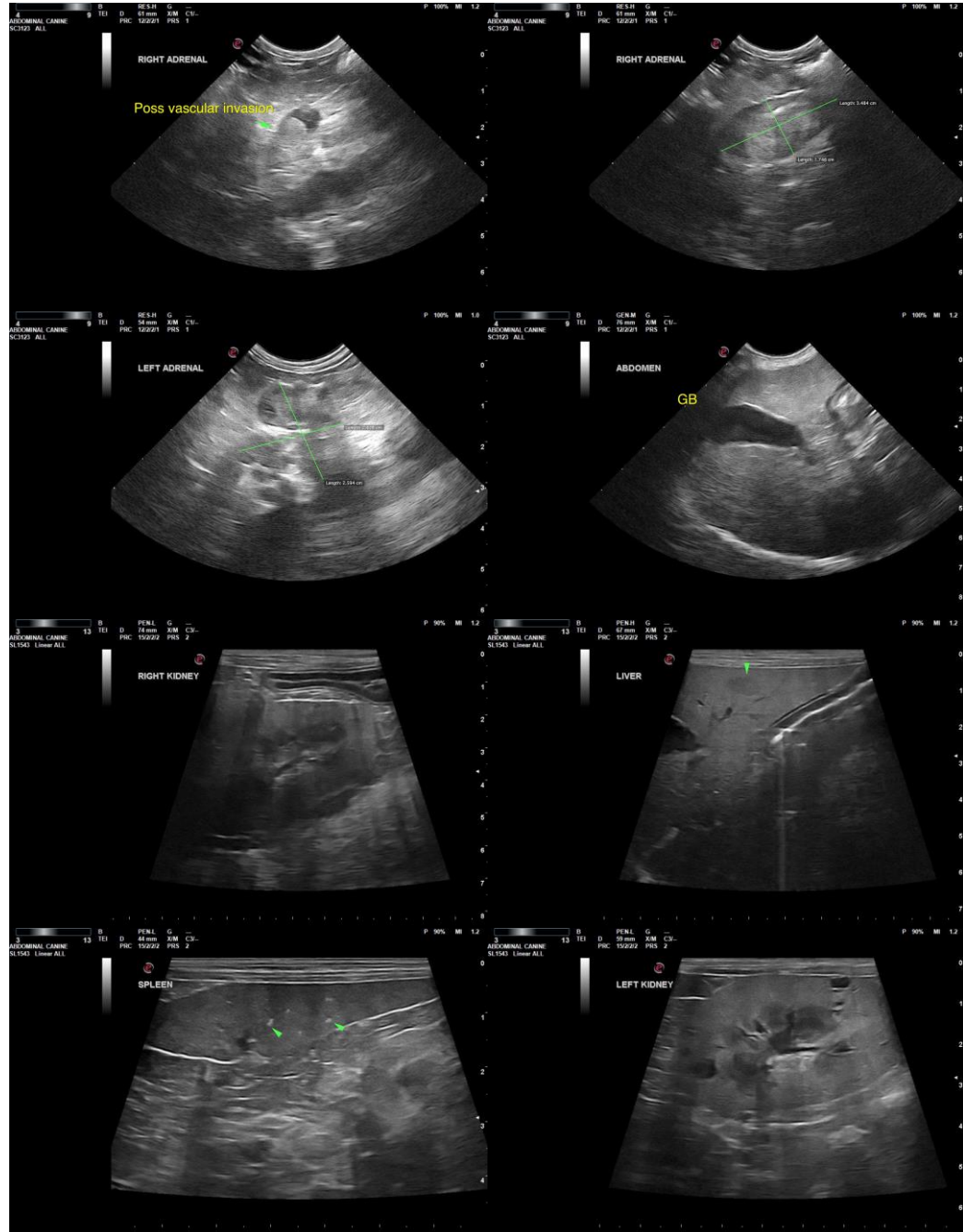
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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