



**PATIENT PRESENTING CLINICAL SIGNS**

Henry Thorsby Abdomen - Liver is slightly enlarged GI/Anal Sacs - Normal ABNORMAL Laboratory Findings High Calcium in bloodwork Current Medications Gabapentin solution- 1ml by mouth every 8 to 12 hours. Metacam 1.5mg/ml - give 0.6ml by mouth every 24 hours as needed for pain

**SPECIES**

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED**

Miniature Pinscher

**Urinary System**

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 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.

**SEX**

Neutered Male

The residual prostate was symmetrically normal in size (1.0 cm diameter) with uniform parenchyma and slight coarse echotexture.

**AGE**

14 Years

No evidence of medial iliac or sublumbar lymphadenopathy/masses.

**WEIGHT**

20.3 Pounds

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 loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Pinpoint medullary mineral and small cortical cysts noted in both kidneys. The left kidney measured 4.8 cm. The right kidney measured 5.3 cm.

**INTERPRETED BY**

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

**Adrenal Glands**

Both adrenal glands were mildly enlarged in size, exhibiting asymmetrical contour and non-homogeneous, subtly nodular parenchyma. The left adrenal gland measured 2.9 cm length x 0.81 cm at the caudal pole. The right adrenal gland measured 1.8 cm length x 0.76 cm at the caudal pole.

**IMAGING PERFORMED BY**

Jenna Walsh, CVT

**Spleen**

The spleen was normal to mildly subnormal in size, exhibiting symmetrical capsule contour and subtle parenchymal heterogeneity, including pinpoint hyperechoic foci, which may indicate pinpoint areas of splenic microinfarction, fibrosis, or mineralization. No neoplastic criteria.

**HOSPITAL NAME**

Cascade Animal Clinic

**Liver**

The liver was mildly enlarged. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild to benign parenchymal remodeling. Intermittent non-disruptive, mildly hyperechoic to non-homogeneous intraparenchymal nodules noted. Example of nodule measured 2.8 cm in diameter. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non distended in size with echogenic, nonmineralized, non dependent biliary sludge. The biliary sludge was non organized with a hypoechoic to anechoic, irregular to interrupted rim visible between the nondependent sludge and inner wall. No signs of peripheral inflammation.

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Dr. Rosen

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**Gastrointestinal**

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.



**PATIENT**

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.

Henry Thorsby

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

**SPECIES**

***Pancreas***

Canine

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

**BREED**

Miniature Pinscher

***Free Abdomen***

**SEX**

No omental masses, lymphadenopathy, or evidence of peritoneal free fluid.

Neutered Male

**ULTRASONOGRAPHIC FINDINGS**

**AGE**

14 Years

- Mild hepatomegaly exhibiting non-homogeneous, subtly nodular parenchyma – Non-specific. Vacuolar hepatopathy, hyperplasia, hematopoiesis, subtle lipogranulomas, inflammatory disease, or other hepatopathy possible. Hepatic neoplastic criteria cannot be definitively excluded.

**WEIGHT**

20.3 Pounds

- Moderate gallbladder debris – Possible very early to emerging gallbladder mucocele.
- Bilateral mild adrenomegaly

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- Moderate chronic renal changes with small cortical cysts
- Benign splenic changes
- Heterogeneous pancreas – likely consistent with age related pancreatic changes and incidental.

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Jenna Walsh, CVT

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Screening hepatic parenchyma and nodular FNA cytology warranted, given the hypercalcemia, for further assessment.

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Cascade Animal Clinic

The bilateral and mildly enlarged adrenal glands are of unclear clinical significance, given lack of reported clinical signs i.e., PU/PD, polyphagia, etc. Benign hyperplasia, functional versus non-functional adenomatous change possible, while early adrenal neoplastic criteria is possible. Screening blood pressure to assess for evidence of hypertension, which may allude to emerging adrenal neoplasia, is recommended. Sonographic monitoring of the adrenal glands with initial recheck in 4-6 weeks is recommended.

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Further assessment of the hypercalcemia may include ionized calcium, PTH, and PTHrP levels. 3-view chest radiographs are suggested if not yet done.

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**SPECIES**

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**SEX**

Neutered Male

**AGE**

14 Years

**WEIGHT**

20.3 Pounds

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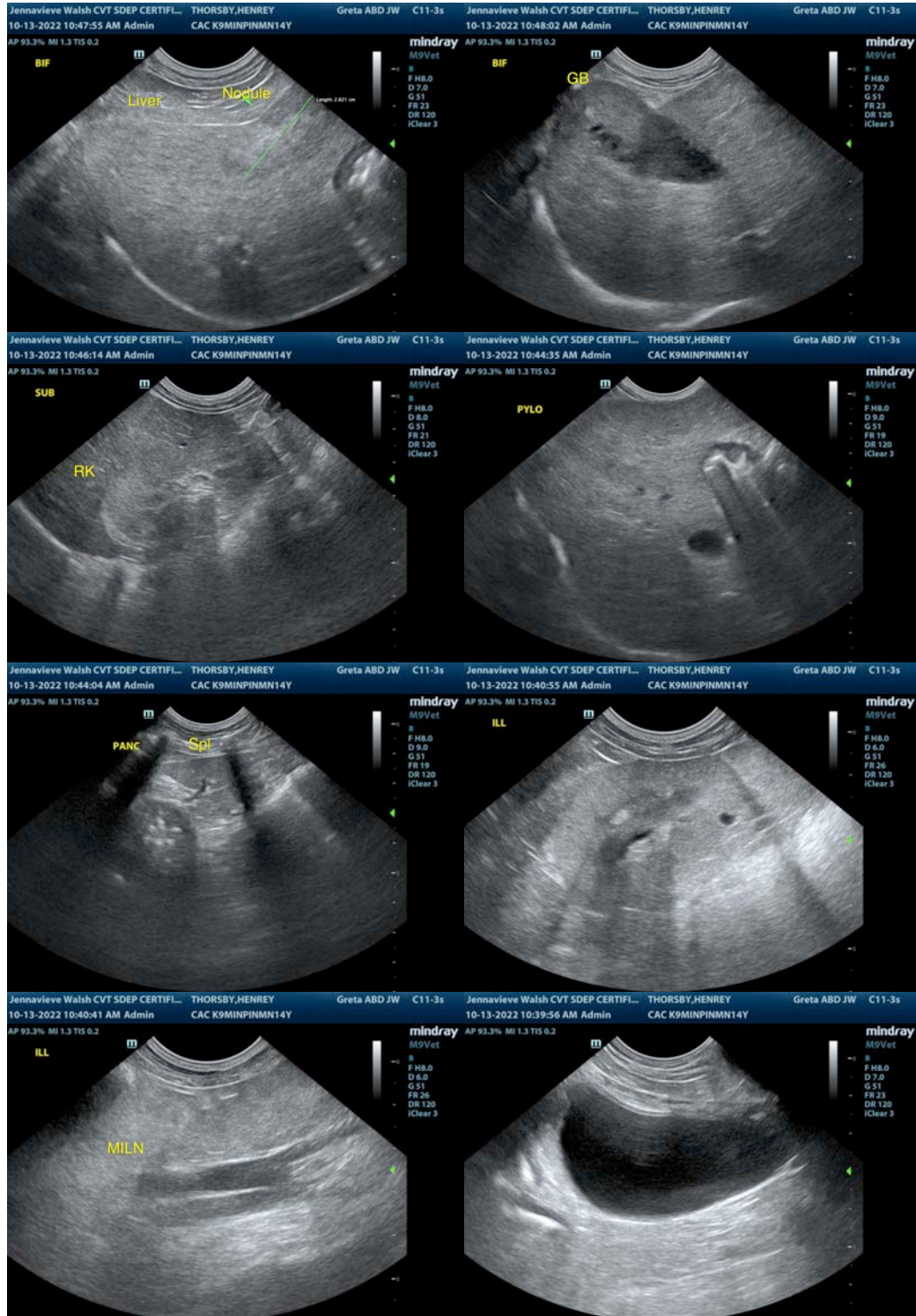
Dr. Rosen

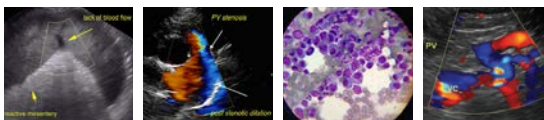
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## PATIENT

Henry Thorsby

## SPECIES

Canine

## BREED

Miniature Pinscher

## SEX

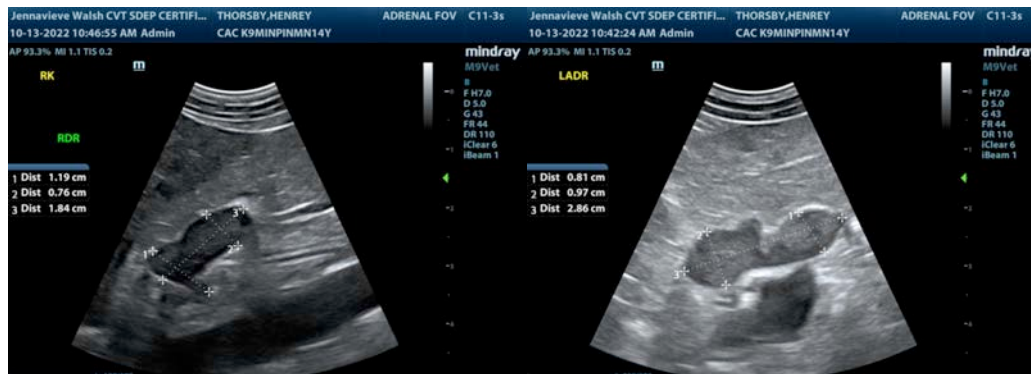
Neutered Male

## AGE

14 Years

## WEIGHT

20.3 Pounds



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)**

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