



PATIENT

Cookie Gagnon

SPECIES

Canine

BREED

Pomeranian Mix

SEX

Spayed female

AGE

11 ½ years

WEIGHT

3.7 kg

INTERPRETED BY

Dr. Alicia Angosto
Guerrero

IMAGING PERFORMED BY

Danielle RVT

HOSPITAL NAME

Orchard VC

REFERRING VET

Dr. Orchard

INVOICE

71964

DATE

2/25/26

PRESENTING CLINICAL SIGNS

- Patient here for routine dental and lumpectomy, ran pre op blood work, elevated liver values. Owner reports PU/ at home. Preformed AUS with patient under GA for her dental
- Alb: 45 g/L (25-44) ALP: 599 U/L (20-150) ALT: 282 U/L (10-118) Ca 12.3 mg/dl (8.6-11.8)

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder lumen is normally distended, and the wall appears thin and smooth. The urine is anechoic. Normal appearance of the bladder neck and proximal urethra. There are no calculi and no evidence of inflammatory or neoplastic changes.

The left kidney is normal in shape and size: 3.59 x 1.61 cm, and the cortical thickness is 0.32 cm in the sagittal plane. The cortex is isoechoic compared to the liver parenchyma. The corticomedullary ratio is normal, and corticomedullary definition is preserved. There is no evidence of pyelectasia, nephrolithiasis, or hydronephrosis. Color Doppler demonstrates a normal vascular pattern.

The right kidney is normal in shape and size: 3.82 x 1.79 cm, and the cortical thickness is 0.30 cm in the sagittal plane. The cortex is isoechoic compared to the liver parenchyma. The corticomedullary ratio is normal, and corticomedullary definition is preserved. There is no evidence of pyelectasia, nephrolithiasis, or hydronephrosis. Color Doppler demonstrates a normal vascular pattern.

Adrenal Glands

Both adrenal glands show normal shape and echogenicity. Dorsoventral diameters measured in the sagittal plane (maximum measurements obtained):

The left adrenal gland measures 0.49 cm at the cranial pole and 0.45 cm at the caudal pole. The right adrenal gland measures 0.55 cm at the cranial pole and 0.55 cm at the caudal pole.

Spleen

Splenic thickness is 0.80 cm. The parenchyma demonstrates normal echogenicity and fine homogeneous echotexture with a few small hyperechoic nodules, the largest measuring 1.90 x 2.59 mm. The splenic capsule is smooth and regular. Splenic vasculature appears normal.

Liver

The liver is subjectively increased in size. The hepatic parenchyma is isoechoic compared to the falciform fat and demonstrates a mildly heterogeneous, mottled echotexture. Subtle, ill-defined areas of variable echogenicity are noted, including a 1.13x0.51 cm hypoechoic focus and a 3.34 x 4.78 mm hyperechoic focus. However, no discrete mass lesions or expansile nodules are identified. The overall architecture remains preserved, and there is no evidence of intrahepatic biliary dilation. No hepatic lymphadenopathy is observed.



PATIENT

Cookie Gagnon

The gallbladder lumen is markedly distended. The wall is thin, and the contents are predominantly anechoic with a moderate amount of biliary sludge. No dilation of the cystic duct or common bile duct is observed.

SPECIES

Canine

Gastrointestinal

BREED

Pomeranian Mix

The stomach is empty and folded, with mural thickness of 1.69 mm and preserved wall layering. Pylorus: 3.10 mm.

SEX

Spayed female

Duodenum: 3.84 mm. Jejunum: 3.13 mm, with preserved wall layering. No evidence of inflammation, ileus, or foreign material is identified.

Colon: 0.82 mm, with formed feces in the descending segment.

AGE

11 ½ years

Pancreas

The evaluated pancreatic regions do not show evidence of overt inflammation.

WEIGHT

3.7 kg

Peritoneal Cavity

INTERPRETED BY

Dr. Alicia Angosto
Guerrero

No sonographic evidence of abdominal effusion, peritonitis, or lymphadenomegaly is identified. The iliac trifurcation appears normal.

ULTRASONOGRAPHIC FINDINGS

IMAGING PERFORMED BY

Danielle RVT

PRIMARY FINDINGS

- Subjective hepatomegaly and mildly heterogeneous hepatic parenchyma with small ill-defined foci.
- Markedly distended gallbladder with moderate biliary sludge.

HOSPITAL NAME

Orchard VC

SECONDARY FINDINGS

- Small splenic hyperechoic nodules consistent with myelolipomas.

REFERRING VET

Dr. Orchard

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The hepatic ultrasonographic appearance is most consistent with a diffuse, likely metabolic or vacuolar hepatopathy. Age-related nodular hyperplasia may contribute to the mild focal echogenic variations observed.

INVOICE

71964

The adrenal glands are within acceptable size limits. While not definitively enlarged, this measurement should be interpreted cautiously in the context of PU/PD and cholestatic enzyme elevation.

DATE

2/25/26

The gallbladder is markedly distended with moderate biliary sludge but without wall thickening or ductal dilation. There is no ultrasonographic evidence of obstructive cholestasis.



PATIENT

Cookie Gagnon

SPECIES

Canine

BREED

Pomeranian Mix

SEX

Spayed female

AGE

11 ½ years

WEIGHT

3.7 kg

INTERPRETED BY

Dr. Alicia Angosto
Guerrero

IMAGING PERFORMED BY

Danielle RVT

HOSPITAL NAME

Orchard VC

REFERRING VET

Dr. Orchard

INVOICE

71964

DATE

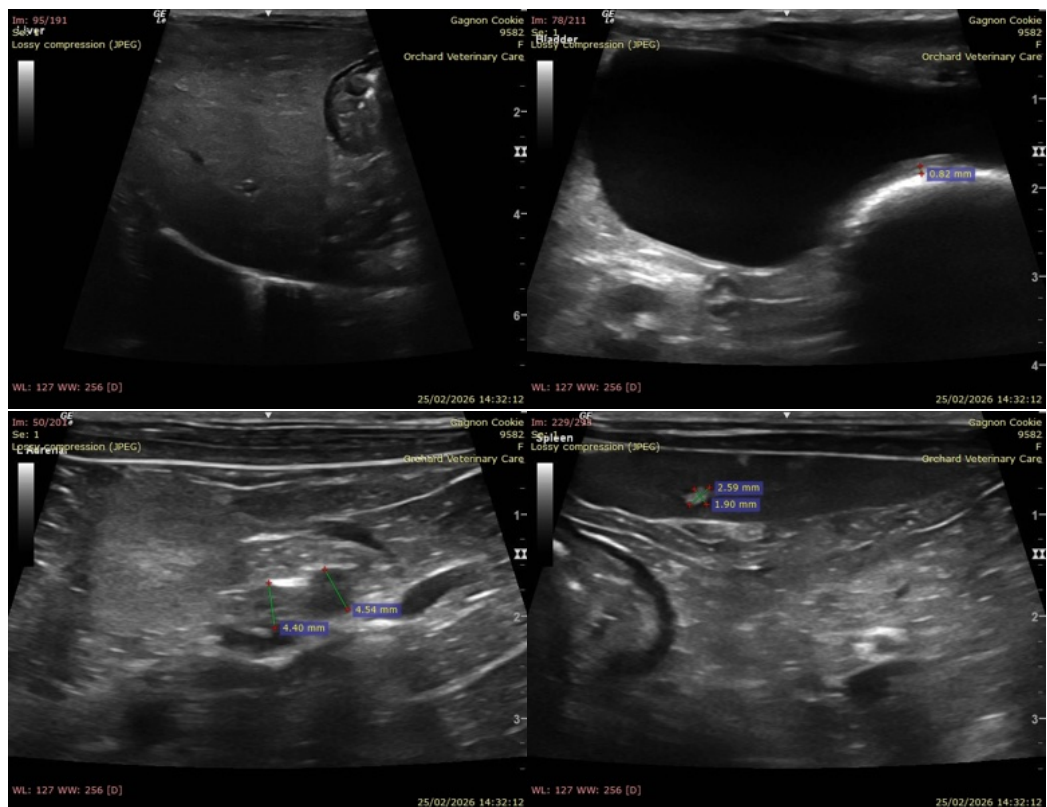
2/25/26

The spleen demonstrates a few small hyperechoic nodules consistent with benign myelolipomas (siderotic nodules), a common incidental finding in older dogs.

Overall, the ultrasonographic findings most strongly support a diffuse metabolic or endocrine hepatopathy, with vacuolar hepatopathy -secondary or not to hyperadrenocorticism- representing a leading clinical differential diagnosis given the biochemical pattern and reported PU/PD.

Recommendations

- Given the clinical signs and biochemical abnormalities, endocrine testing for hyperadrenocorticism (UCCR screening followed by confirmatory testing if indicated) is recommended.
- If liver enzymes continue to rise or clinical signs progress, hepatic sampling may be considered.
- Mild hypercalcemia is present. No ultrasonographic evidence of structural abnormalities commonly associated with hypercalcemia is identified on this examination. Correlation with clinical findings and laboratory reassessment is recommended at the discretion of the attending clinician.





PATIENT

Cookie Gagnon

SPECIES

Canine

BREED

Pomeranian Mix

SEX

Spayed female

AGE

11 ½ years

WEIGHT

3.7 kg

INTERPRETED BY

Dr. Alicia Angosto
Guerrero

IMAGING PERFORMED BY

Danielle RVT

HOSPITAL NAME

Orchard VC

REFERRING VET

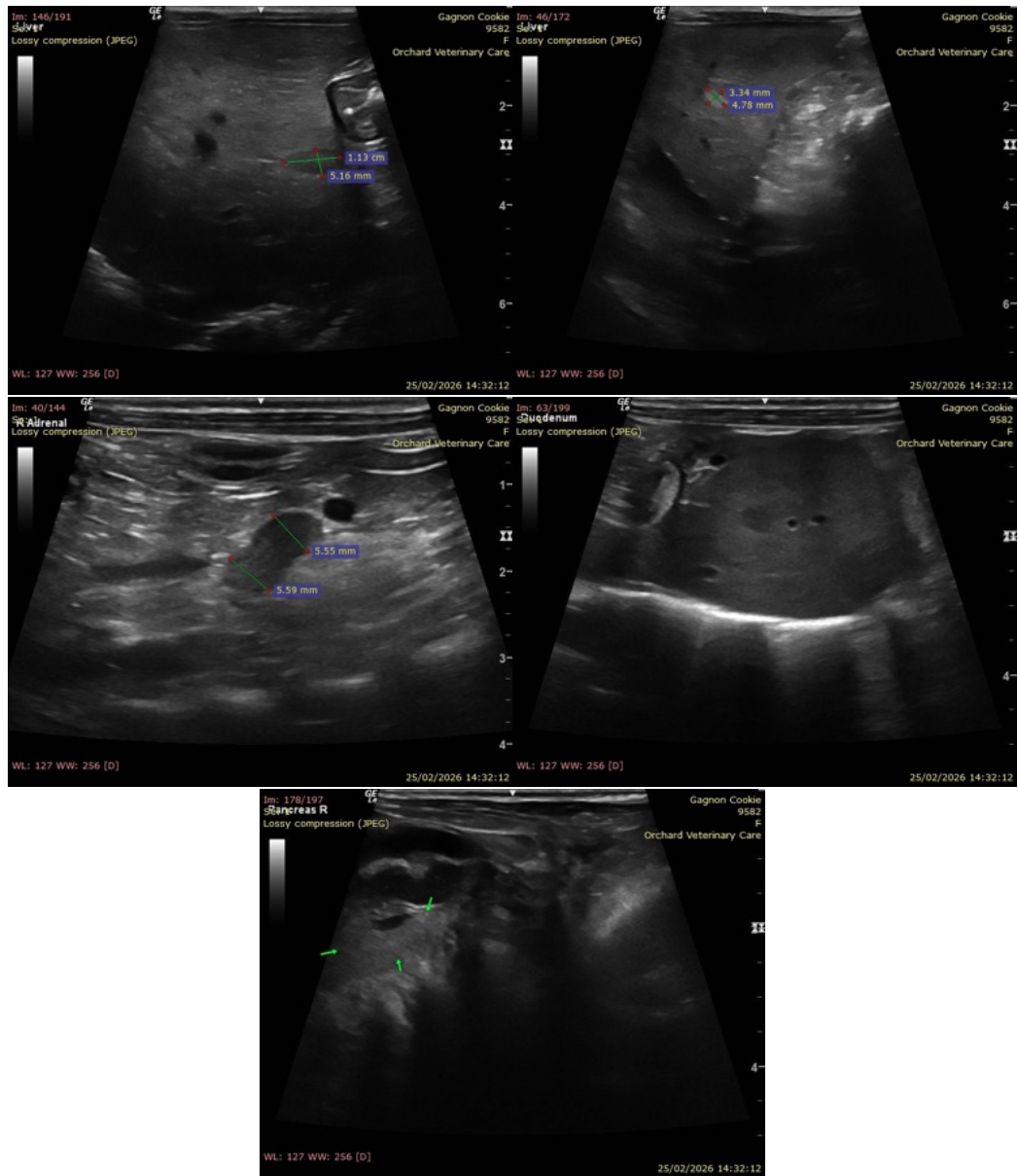
Dr. Orchard

INVOICE

71964

DATE

2/25/26



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.

Alicia Angosto Guerrero, DMV, PgDip, MSc.

MV Esp Ultrasound in Domestic and Wild Animals

info@SonoPath.com