



PATIENT

Lucy Mowl

SPECIES

Feline

BREED

Domestic Shorthair

SEX

Spayed female

AGE

10 years

WEIGHT

8.2 lbs

INTERPRETED BY

Dr. Alicia Angosto
Guerrero

IMAGING PERFORMED BY

Dr. Hougentogler

HOSPITAL NAME

K-Vet Animal Care

REFERRING VET

Dr. Hougentogler

INVOICE

71748

DATE

2/19/26

PRESENTING CLINICAL SIGNS

- Gastrointestinal tract; pancreas; liver
- Patient seen about 10 days ago for decreased appetite; Bloodwork was unremarkable; started supportive and symptomatic treatments that worked initially but have stopped working recently.
- BAR; moderate dental calculus; no other significant findings
- Weight 8.2 pounds, BodyScore9 4 - Ideal - 4, Pulse 220, Resp 60
- Muc Memb Pink/Healthy
- CRT <2 sec
- Alert BAR
- Previously tx with Fluids, Cerenia, Vitamin B12, and Mirataz helped initially, but the symptoms recently returned.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

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

The left kidney is normal in shape and size: 3.39×2.11 cm, and the thickness of the cortex is 0.37 cm in the sagittal plane. Renal length is within normal limits for an adult cat (approximately 3.0–4.5 cm). 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. Doppler color shows a normal vascular pattern.

The right kidney is normal in shape and size: 3.53×2.34 cm, and the thickness of the cortex is 0.40 cm in the sagittal plane. Renal length is within normal limits. 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. Doppler color shows a normal vascular pattern.

Adrenal Glands

Both adrenal glands show normal shape and echogenicity. Dorsoventral diameters measured in the sagittal plane: the left adrenal gland measures 0.28 cm at the cranial pole (caudal pole measurement not provided). The right adrenal gland measures 0.26 cm at the cranial pole and 0.25 cm at the caudal pole. These values are within normal limits for a cat (≤ 0.45 cm).

Spleen



PATIENT

Lucy Mowl

Splenic thickness is 0.57 cm, within normal limits (≤ 1.2 – 1.3 cm). The parenchyma demonstrates normal echogenicity and fine homogeneous echotexture without focal abnormalities. The splenic capsule is smooth and regular.

SPECIES

Feline

Liver

BREED

Domestic Shorthair

The liver is subjectively normal in size, with sharp edges and a regular contour. The liver parenchyma appears uniform and isoechoic compared to the falciform fat, with a normal echotexture. No focal hepatic lesions or hepatic lymphadenopathy are observed.

SEX

Spayed female

The gallbladder lumen is normally distended. The wall is thin and the contents are primarily anechoic. The common bile duct measures 1.88–2.34 mm, which is within normal limits for a cat (typically ≤ 3 mm).

AGE

10 years

Gastrointestinal

WEIGHT

8.2 lbs

The stomach is semi-distended and contains partially digested ingesta producing mild distal acoustic shadowing. This may represent partially digested food material or hair mixed with ingesta. Correlation with fasting duration is recommended. Gastric mural thickness measures 1.51 mm with preserved wall layering, which is within normal limits for a non-distended feline stomach.

INTERPRETED BY

Dr. Alicia Angosto
Guerrero

Duodenum: 2.44 mm (within normal limits; ≤ 2.7 mm). The duodenal papilla measures 3.10×4.56 mm.

Jejunum: 2.34 mm total thickness. Mucosa: 1.18 mm. Submucosa: 0.66 mm. Muscularis propria: 0.61 mm. The muscularis-to-mucosa ratio is approximately 0.52, which is borderline increased (normal < 0.5). Wall layering is preserved.

IMAGING PERFORMED BY

Dr. Hougentogler

Ileum: 2.03 mm total thickness (within normal limits; ≤ 2.7 mm). Mucosa: 0.48 mm. Submucosa: 0.88 mm. Muscularis propria: 0.44 mm. Muscularis-to-mucosa ratio is approximately 0.92; however, total wall thickness remains within normal limits and layering is preserved. The ileocecal junction was not visualized.

HOSPITAL NAME

K-Vet Animal Care

Most intestinal segments demonstrate a prominent mucosal pattern and increased peristalsis consistent with active digestion. Intestinal motility and luminal content can influence wall measurements despite attempts to measure empty segments.

REFERRING VET

Dr. Hougentogler

Colon: 0.80–1.05 mm, wall layering preserved, with scant content and gas.

INVOICE

71748

Pancreas

Pancreatic thickness is 5.40 mm, which is within normal limits for an adult cat (approximately 4–6 mm). The parenchyma is isoechoic to the adjacent omental fat. The pancreatic duct measures 0.56 mm (within normal limits). No ultrasonographic evidence of active inflammation or focal mass is identified.

DATE

2/19/26

Peritoneal Cavity



PATIENT

Lucy Mowl

SPECIES

Feline

BREED

Domestic Shorthair

SEX

Spayed female

AGE

10 years

WEIGHT

8.2 lbs

INTERPRETED BY

Dr. Alicia Angosto
Guerrero

IMAGING PERFORMED BY

Dr. Hougentogler

HOSPITAL NAME

K-Vet Animal Care

REFERRING VET

Dr. Hougentogler

INVOICE

71748

DATE

2/19/26

No abdominal effusion or peritonitis is observed. Cranial mesenteric lymph nodes measure 6.86 mm and 5.01 mm in thickness, are normal in shape, and mildly hypoechoic. Ileocecal lymph nodes are not visualized. A pancreaticoduodenal lymph node measures 3.11×4.83 mm with normal morphology and echogenicity. The iliac trifurcation is normal.

ULTRASONOGRAPHIC FINDINGS

PRIMARY FINDINGS

- Mild enlargement of cranial mesenteric lymph nodes (up to 6.86 mm; normal feline short-axis typically ≤ 5 mm).
- Borderline increased muscularis-to-mucosa ratios in jejunum and ileum with preserved layering and normal total wall thickness.

SECONDARY FINDINGS

- Semi-distended stomach with retained ingesta.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

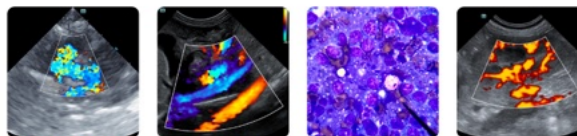
The small intestinal walls remain within normal thickness limits. Although muscularis proportions are borderline increased, the changes are subtle, layering is preserved, and there is no diffuse transmural thickening or marked nodal enlargement. These findings are nonspecific but may be compatible with early or mild chronic enteropathy. Cranial mesenteric lymph nodes are mildly enlarged but maintain normal shape and echogenicity. In cats, reactive lymphadenopathy is common in inflammatory enteropathies and does not alone confirm lymphoma.

There is no ultrasonographic evidence of obstructive disease, discrete intestinal mass, effusion, or advanced infiltrative neoplasia.

Overall, findings are most consistent with mild chronic enteropathy. Early small cell lymphoma cannot be excluded based on ultrasound alone, as imaging overlap between inflammatory bowel disease and low-grade lymphoma is well recognized. However, there is no definitive imaging evidence of advanced GI lymphoma at this time.

Recommendations

- Serum cobalamin measurement is recommended given small intestinal involvement.
- If clinical signs persist, intestinal biopsy (endoscopic or full-thickness) may be considered to differentiate inflammatory bowel disease from small cell lymphoma.
- If biopsy is declined, therapeutic management should be determined at the discretion of the attending clinician. A strict dietary trial and/or corticosteroid therapy may be considered based on clinical judgment.
- Ensure adequate fasting prior to repeat imaging if gastric emptying delay is clinically suspected.



PATIENT

Lucy Mowl

SPECIES

Feline

BREED

Domestic Shorthair

SEX

Spayed female

AGE

10 years

WEIGHT

8.2 lbs

INTERPRETED BY

Dr. Alicia Angosto Guerrero

IMAGING PERFORMED BY

Dr. Hougentogler

HOSPITAL NAME

K-Vet Animal Care

REFERRING VET

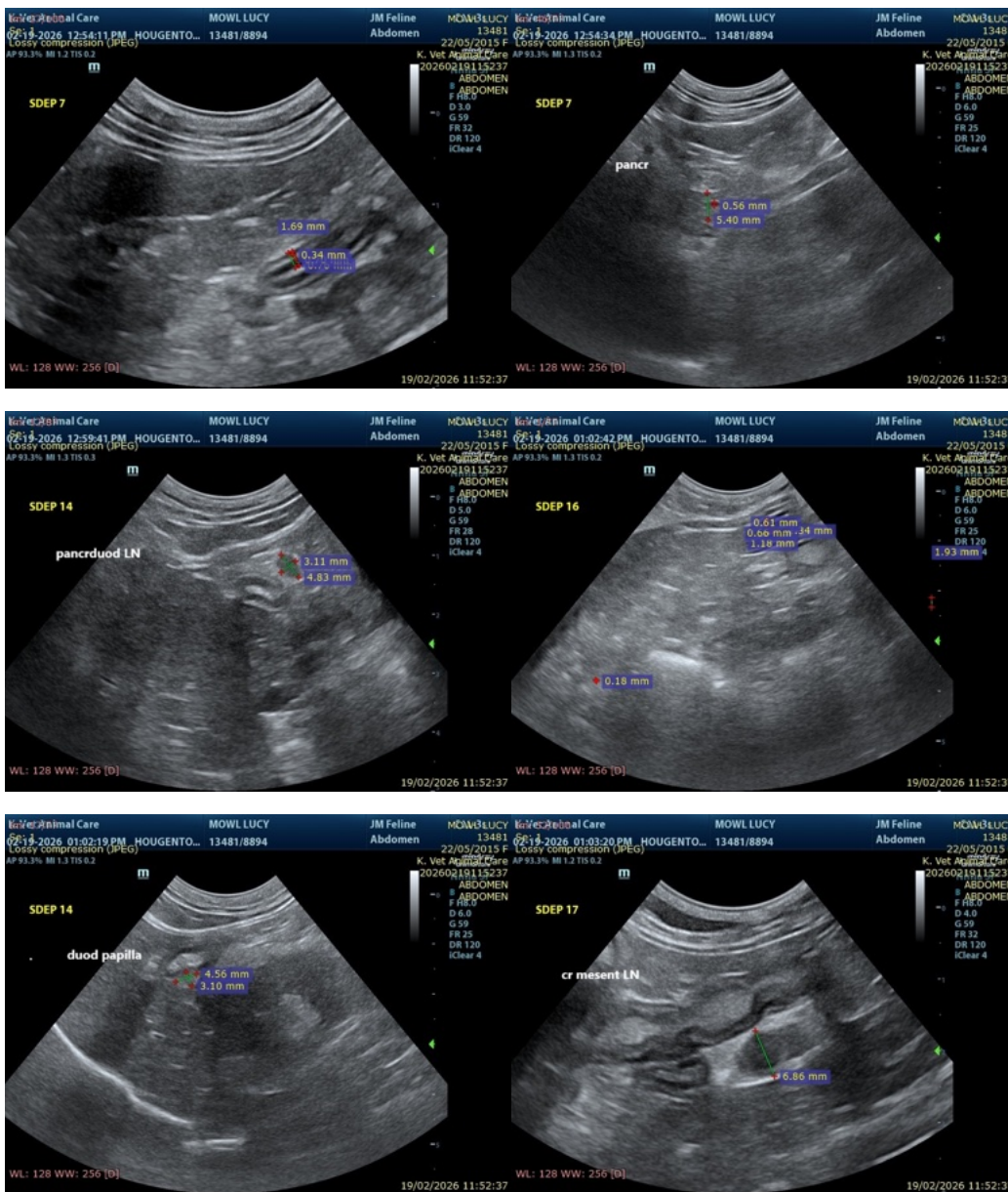
Dr. Hougentogler

INVOICE

71748

DATE

2/19/26





PATIENT

Lucy Mowl

SPECIES

Feline

BREED

Domestic Shorthair

SEX

Spayed female

AGE

10 years

WEIGHT

8.2 lbs

INTERPRETED BY

Dr. Alicia Angosto Guerrero

IMAGING PERFORMED BY

Dr. Hougentogler

HOSPITAL NAME

K-Vet Animal Care

REFERRING VET

Dr. Hougentogler

INVOICE

71748

DATE

2/19/26



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