

PATIENT PRESENTING CLINICAL SIGNS

Carmen Wood

reduced appetite for the past 2-3 weeks, weight loss, no vomiting, no diarrhea, no PUPD, energy level has diminished. physical examination unremarkable, normal vitals, has been on Rimadyl and Tramadol for the past two years for osteoarthritis meds: Rimadyl, Tramadol, Apoquel

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: mild regenerative anemia, mild elevation of ALP, elevation of Spec cPL, low total T4 (possibly euthyroid sick)

BREED

Lab

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

SEX

Spayed Female

The urinary bladder is moderately distended with anechoic urine. The Bladder wall, trigone, ureteral papillae and visible urethra (to a depth of 2cm) appear normal with no evidence of wall thickening, mucosal irregularities, masses or cystic calculi.

AGE

11 Years

The left kidney is normal in size (7.02 cm) but irregular in shape. Overall echogenicity is slightly hyperechoic with poor corticomedullary distinction and a typical 1:3 cortex:medulla ratio. The parenchyma is diffusely nodular with too numerous to count, discrete hypoechoic nodules varying in size from 0.5-1.6 cm. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter.

WEIGHT

33.6 kg

The right kidney is normal in size (6.33 cm) but irregular in shape. Overall echogenicity is slightly hyperechoic with poor corticomedullary distinction and a typical 1:3 cortex:medulla ratio. The parenchyma is diffusely nodular with too numerous to count, discrete hypoechoic nodules varying in size from 0.5-1.0 cm. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter.

Adrenal Glands

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

The left adrenal gland is normal in size measuring 0.82 cm at the caudal pole. It is observed in its normal position cranial to the left renal artery. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

IMAGING PERFORMED BY

Kelly Reschny

The right adrenal gland is normal/borderline large measuring 1.17 cm at the cranial pole, 0.80 cm at the caudal pole, and 2.6 cm in length. It is observed in its normal position between the cranial aspect of the right kidney and the caudal vena cava. The general shape and size of the adrenal is within acceptable parameters, but the cranial pole appears slightly mottled and hyperechoic. There is no evidence of vascular invasion.

HOSPITAL NAME

Campbellville AH

Spleen

The spleen is large and irregular. The spleen echotexture is heterogenous and mottled. The blood flow through the hilus and splenic parenchyma appears normal. The parenchyma is diffusely nodular with too numerous to count, large, discrete, irregular, hypoechoic mass lesions varying in size from 1-5 cm.

REFERRING VET

Dr. Al Kamrani

Liver

The liver is subjectively normal in size, and echogenicity with smooth peripheral margins. The parenchyma is heterogenous in echotexture with subtle, indistinct focal mottling. The visible portions of the vasculature and biliary tract appear normal. No focal nodules or cystic lesions are observed.

INVOICE

41152

The gall bladder lumen is moderately distended. The wall of the gall bladder is not thickened and has a smooth mucosal surface. There is a moderate amount of non-organized echogenic debris. The cystic and common bile ducts are normal/not visible.

DATE

9/8/22


PATIENT *Gastrointestinal*

Carmen Wood The stomach is moderately dilated with fluid and irregular shadowing material most consistent with normal ingesta and gas. It measures at a normal thickness of <0.7cm with some variability due to the presence of rugal folds. The distinction of the gastric wall layering is adequate and there is no impression of reduced peristaltic activity. No masses or focal lesions were observed.

SPECIES

Canine The visualized areas of duodenum, jejunum and ileum have a relatively uniform diameter with minimal fluid distension. Wall thickness is normal. Bowel loops follow a curvilinear path with distinct wall layering maintaining the typical 1:3 muscularis:mucosa layer ratio. The duodenum measured as normal (between 0.3-0.5cm in wall thickness) and the jejunum measured as normal (between 0.2-0.47cm.)

BREED

Lab Visualized peristalsis appears appropriate. There were no focal lesions consistent with obstruction or a mass effect observed.

SEX

Spayed Female The ileocecal junction was visualized and exhibited normal intact wall layering and is subjectively of normal thickness. Sections of colon are visualized with formed fecal material and gas shadowing distally. There is no observed focal or generalized colon wall thickening or loss of layering.

AGE

11 Years The pancreas is normal and isoechoic to surrounding mesentery. There is no evidence of nodules or cystic lesions. There is no evidence of regional mesenteric inflammation or fluid.

Pancreas
Free Abdomen
WEIGHT

33.6 kg Evaluation of the peritoneal cavity did not reveal any evidence of effusion. There are large, hypoechoic, irregular lymph nodes visualized in the iliac region, measuring 2.4 cm x 2.41 cm and 1.8 cm x 1.94 cm. The omentum is generally hyperechoic.

INTERPRETED BY

Kathleen Sennello DVM,
 MS, Diplomate ACVIM
 (Small Animal Internal
 Medicine)

IMAGING PERFORMED BY

Kelly Reschny

HOSPITAL NAME

Campbellville AH

REFERRING VET

Dr. Al Kamrani

INVOICE

41152

DATE

9/8/22

ULTRASONOGRAPHIC FINDINGS

- Diffusely nodular kidneys – highly concerning for metastatic neoplasia. Consider a fine needle aspirate.
- Diffusely nodular spleen with large, discrete, hypoechoic nodules/masses – Highly concerning for metastatic neoplastic process. Recommend a fine needle aspirate.
- Mildly heterogeneous liver – The diffuse hepatic changes are non-specific and could be consistent with vacuolar hepatopathy, nodular hyperplasia, inflammatory/immune-mediated disease, fibrosis, extramedullary hematopoiesis, toxic hepatopathy (e.g., copper), infiltrative neoplasia (less likely) or other hepatopathy.
- Mild gallbladder debris – The significance of the aggregated gallbladder debris is unclear. This could represent an early mucocele, cholestasis, or may be secondary to fasting but seems unlikely to be causing a current issue. Recommend continued monitoring.
- Shadowing material visualized within the gastric lumen – Correlate with the feeding history and abdominal radiographs. If the patient was adequately fasted consider such differentials as delayed gastric emptying, a partial outflow tract obstruction (none seen) or ingested foreign material.
- Hyperechoic cranial pole of the right adrenal gland – The significance of this is currently unclear. Consider blood pressure evaluation and continued monitoring, as the adrenal gland is not deformed or enlarged.
- Large, irregular, hypoechoic iliac lymph nodes – concerning for metastasis.



PATIENT

Carmen Wood

SPECIES

Canine

BREED

Lab

SEX

Spayed Female

AGE

11 Years

WEIGHT

33.6 kg

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

**IMAGING
PERFORMED BY**

Kelly Reschny

HOSPITAL NAME

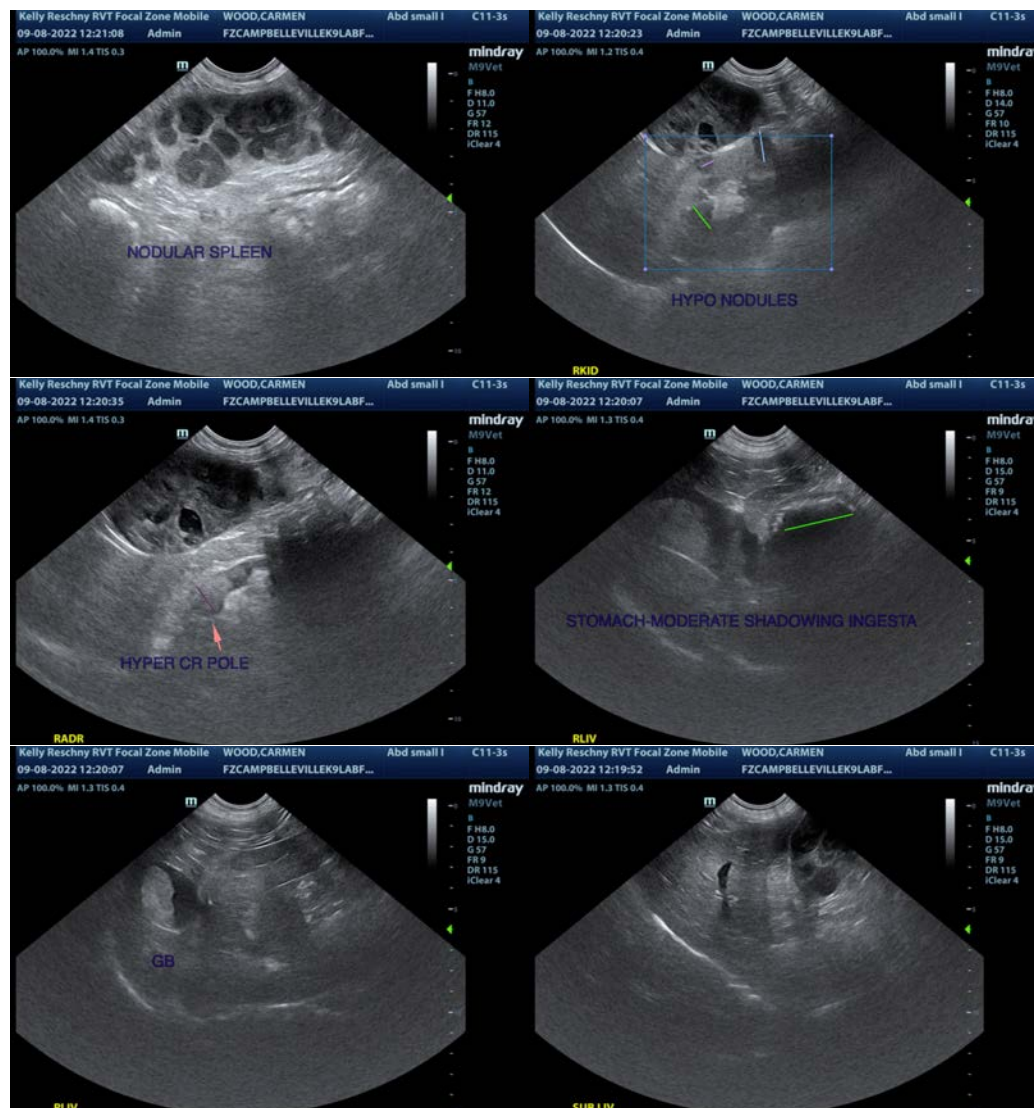
Campbellville AH

REFERRING VET

Dr. Al Kamrani

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Both kidneys and the spleen are severely nodular with discrete, hypoechoic, irregular, large nodules that are highly concerning for a metastatic neoplastic process. Primary concern would be histiocytic sarcoma, lymphoma, other round cell neoplasia, etc. Recommend a fine needle aspirate of the spleen and 3-view thoracic radiographs. Once a cytologic diagnosis is obtained, consider a consultation with a veterinary oncologist regarding treatment options and prognosis.

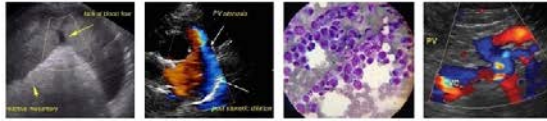


INVOICE

41152

DATE

9/8/22



PATIENT

Carmen Wood

SPECIES

Canine

BREED

Lab

SEX

Spayed Female

AGE

11 Years

WEIGHT

33.6 kg

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

**IMAGING
PERFORMED BY**

Kelly Reschny

HOSPITAL NAME

Campbellville AH

REFERRING VET

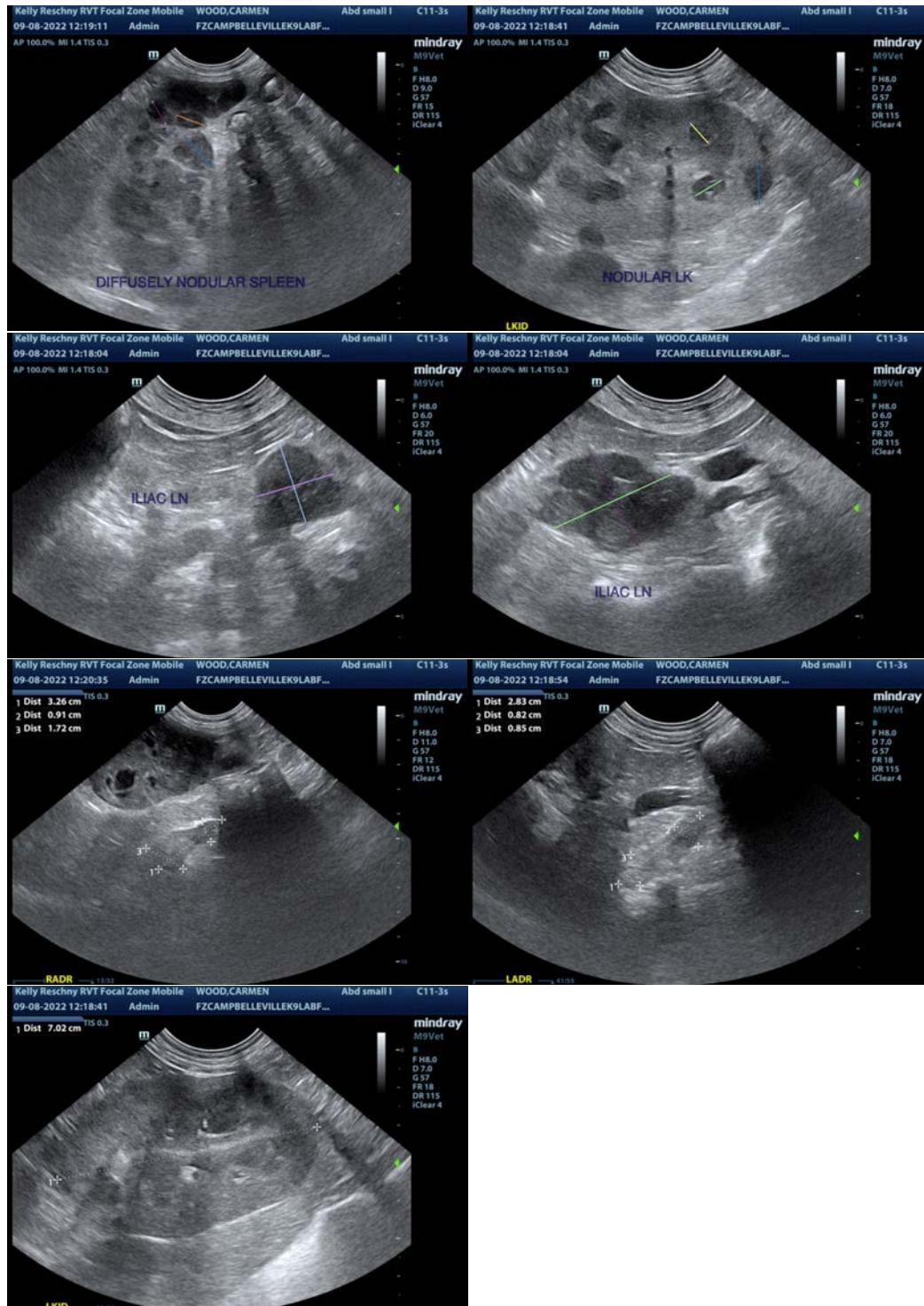
Dr. Al Kamrani

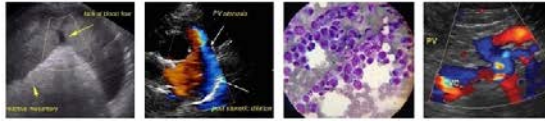
INVOICE

41152

DATE

9/8/22





PATIENT

Carmen Wood

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.

SPECIES

Canine

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.

Kathleen Sennello DVM,MS, Diplomate ACVIM (Small animal Internal Medicine)

kathleen.sennello@sonopath.com

BREED

Lab

SEX

Spayed Female

AGE

11 Years

WEIGHT

33.6 kg

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

**IMAGING
PERFORMED BY**

Kelly Reschny

HOSPITAL NAME

Campbellville AH

REFERRING VET

Dr. Al Kamrani

INVOICE

41152

DATE

9/8/22