

**PATIENT**

Wrigley Green 269519

SPECIES

Canine

BREED

Retriever Mix

SEX

Spayed Female

AGE

5 Years

WEIGHT

65 Pounds

INTERPRETED BYLisa Carioto, DVM,
DVSc, Diplomate
ACVIM**IMAGING
PERFORMED BY**

Tom McNeill

HOSPITAL NAME

SVS Imaging CT

REFERRING VET

WVRC

INVOICE

15204

DATE

5/15/22

PRESENTING CLINICAL SIGNS

History: Recently diagnosed with lymphoma at the pDVM. Patient has become more lethargic with significant enlargement of the mandibular lymph nodes.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**Urinary System**

The urinary bladder is well distended with anechoic contents. The wall is smooth and regular. No abnormalities are noted with the trigone or proximal urethra, and there is no evidence of sediment, cystoliths, polyps or a mass.

Kidneys

The **left** kidney measures 5.80 cm. The capsule is smooth and its overall architecture, including the definition of the cortico-medullary junction, are preserved. Very mild mineralization of the diverticulae and pelvis are present without evidence of nephroliths or pyelectasia. An accumulation of intrapelvic fat is noted. The surrounding mesentery is not hyperechoic.

The **right** kidney measures 6.10 cm. Findings are similar to the left kidney.

Aortic bifurcation/trifurcation

No abnormalities observed.

Adrenal Glands

The **left** adrenal gland measures 0.53 cm at the cranial pole and 0.54 cm at the caudal pole. No abnormalities are noted with the gland's overall architecture, echogenicity or echotexture. The phrenico-abdominal vein and surrounding vasculature and mesentery are unremarkable.

The **right** adrenal gland measures 0.93 cm (enlarged) at the cranial pole and 0.77 cm (mildly enlarged) at the caudal pole. No abnormalities are noted with the gland's overall echogenicity or echotexture. The phrenico-abdominal vein and surrounding vasculature and mesentery are unremarkable.

Spleen

The spleen is heterogeneous, with a diffuse mottled or "moth eaten" echotexture. Multiple hypoechoic ill-defined nodules are observed. The capsule is smooth. No abnormalities are observed with its vasculature, i.e., congestion and thrombi are not identified.

Liver

There are no obvious signs of hepatomegaly, and its borders are smooth and sharp. The liver's echotexture is homogeneous, and it is within normal limits in echogenicity. Portal markings are slightly prominent. No abnormalities are observed with the hepatic vessels visualized.

The gallbladder wall is within normal limits in thickness and echogenicity. There is no evidence of echogenic material within the GB or edema surrounding it. The portions of the cystic and/or common bile ducts observed are not dilated or tortuous, i.e., there are no signs of an obstruction.

Gastrointestinal

Large amount of gas in lumen of stomach. The gastric wall is within normal limits in thickness and the wall layers are well defined. No obvious abnormalities are observed with its peristalsis.

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The small intestinal wall thickness, including the duodenum, is within normal limits and the definition of the wall layers is preserved. No abnormalities are observed with the ileo-cecal-colic junction. Abnormally dilated loops of bowel are not observed.

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The colonic wall is not thickened and mural detail is considered normal.

There are no obvious signs of a mass, foreign body, infiltrative disease or an obstruction in the gastrointestinal tract.

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Pancreas

No overt abnormalities are observed with the echogenicity or echotexture of the XX limb. There is no evidence of hyperechogenicity of the surrounding mesentery, i.e., signs of active pancreatitis are not present.

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Other**Lymph nodes (LNs)**

Inguinal LNs

Right: enlarged, hypoechoic with irregular contours: 1.26 cm in diameter x 4.07 cm in length

Left: similar appearance; 1.03 cm in diameter x 4.46 cm in length

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Iliac LNs

Right: enlarged, hypoechoic with smooth contours: 2.35 cm in diameter x 3.76 cm in length

Left: enlarged, oblong and hypoechoic with smooth contours: 1.35 cm in diameter x 4.26 cm in length

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 Lisa Carioto, DVM,
 DVSc, Diplomate
 ACVIM

Gastric LN mildly enlarged, smooth contours and hypoechoic (see image, below).

Hepatic LN; multiple hepatic lymph nodes are hypoechoic and enlarged, with mildly irregular contours; 1.04 cm in diameter x 1.86 cm in length. The surrounding mesentery is hyperechoic.

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Mesenteric LNs; multiple are enlarged and severely hypoechoic. They vary in shape, round to irregular contours (see images, below)

A few jejunal LNs are also enlarged.

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Abdominal effusion is not visualized.

ULTRASONOGRAPHIC FINDINGS

- **Lymphadenomegaly** of multiple lymph nodules throughout the abdomen
- High index of suspicion of infiltrative disease of the spleen, i.e. lymphoma stage IVb
- The enlarged right adrenal gland may be due to hyperplasia, or infiltration with fat. However, neoplastic infiltration cannot be excluded.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

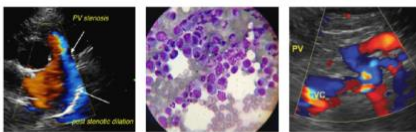
A fine needle aspirate of the spleen would be required to confirm the suspicion of neoplastic infiltration; however, her treatment will change.

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A fine needle aspirate of the right adrenal gland to determine the reason for its enlargement is not recommended due to the potential adverse side effects.

Referral to a board-certified oncologist to start treatment of her lymphoma is recommended.

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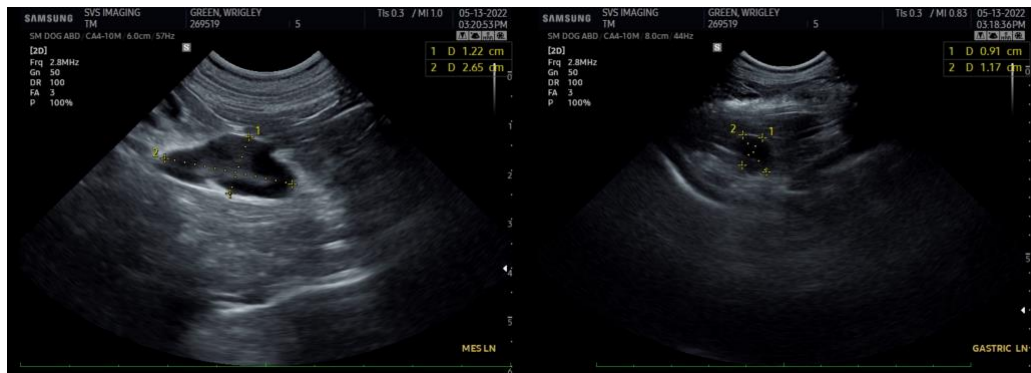
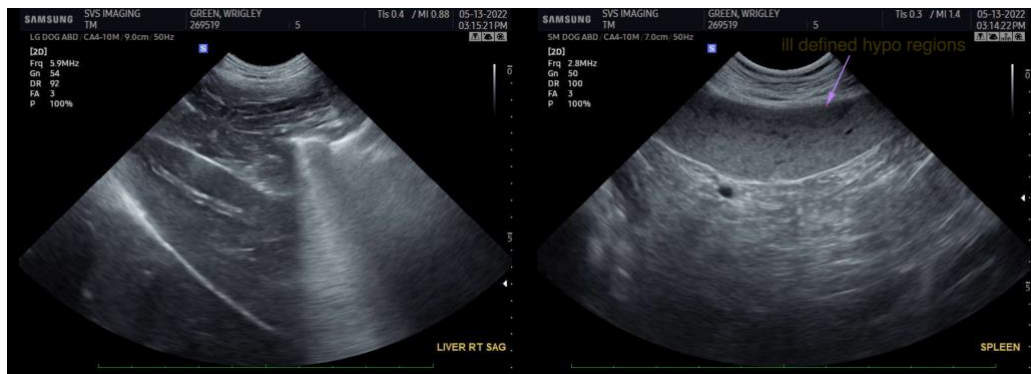
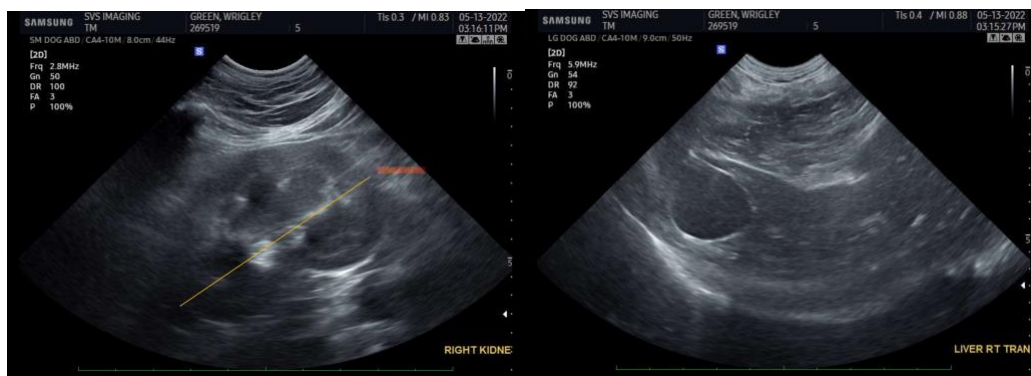
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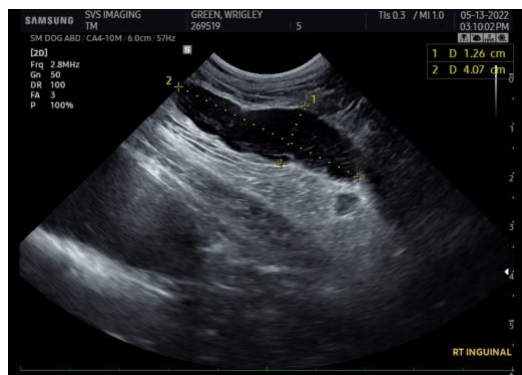
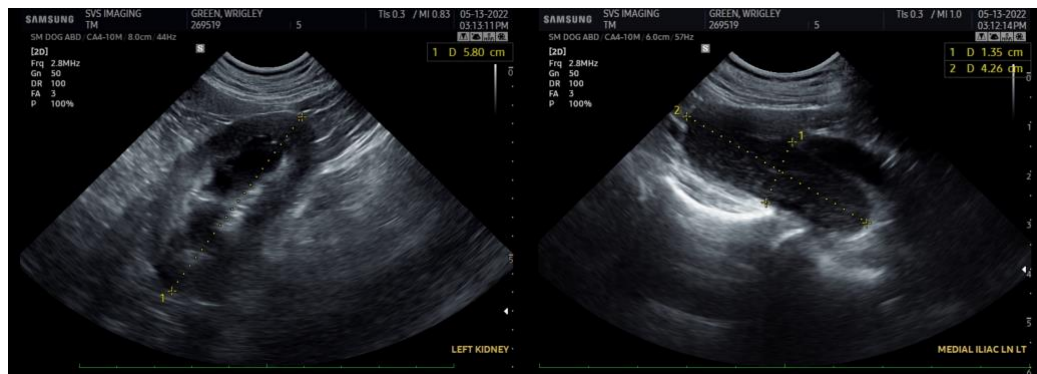
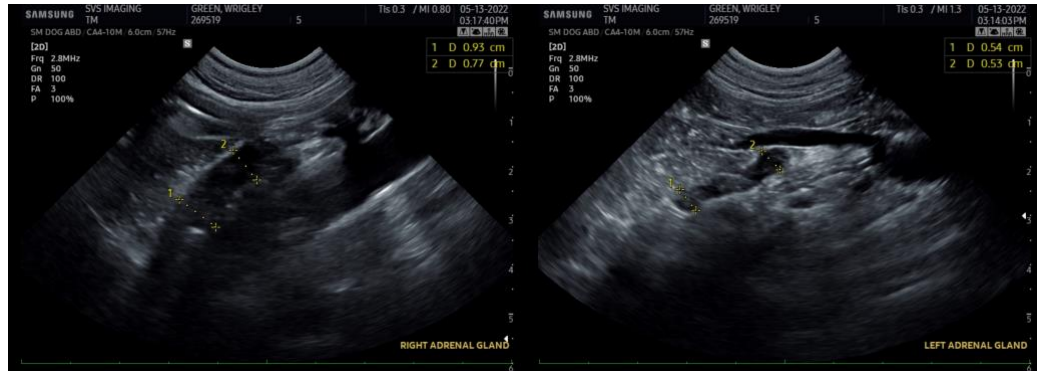
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Lisa Carioto, DVM, DVSc, Diplomate ACVIM

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