**PATIENT**

Lily Hardy

SPECIES

Canine

BREED

Havanese

SEX

FS

AGE

13 yrs

WEIGHT

9.3 lbs.

INTERPRETED BYR. McKenzie Daniel,
DVM, DABVP (Canine
and Feline)**IMAGING
PERFORMED BY**

Amy Mayhew LVT

HOSPITAL NAME

SVS Imaging MI

REFERRING VET

Oxford VH

INVOICE

14746

DATE

8/26/22

PRESENTING CLINICAL SIGNS

Patient is in a constant heat, has been having false pregnancies and for the past month she has been spotting blood and owner keeps a diaper on her at night and she finds blood in it in the morning, she is acting fine and is e/d fine

Abnormal PE/Chem/CBC/UA Results: 8/11/22 WBC 21.7, Neutrophil 14322 Monocytes 1519, Eosinophil 1519, Band 217

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**Urinary System**

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 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 was noted.

The uterine remnant was mildly prominent in size exhibiting mild nonhomogeneous focally hyperechoic and nonshadowing parenchyma. The uterine remnant measured approximately 2.1 cm x 1.3 cm. No evidence of uterine remnant luminal fluid accumulation was noted.

The area of the aortic trifurcation was free of pathology.

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 mild to moderate loss of corticomedullary symmetry and definition expected for the age of the patient. Mild left kidney pyelectasia was noted. The left kidney measured 3.6 cm in length. The right kidney measured 3.5 cm in length.

Adrenal Glands

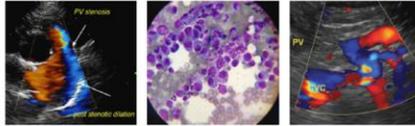
The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.37 cm width at the caudal pole and 0.30 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.57 cm width at the caudal pole and 0.43 cm width at the cranial pole.

Spleen

The spleen was normal in size and contour with generalized mild parenchyma heterogeneity and focal to intermittent nondisruptive discrete hypoechoic nodules. An example of a splenic nodule measured 0.40 cm diameter. Normal splenic vascularity was noted.

Liver/ Gallbladder

The liver exhibited potential for borderline enlargement with the ventral liver at the level of the gastric axis. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild to benign parenchymal remodeling. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

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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.

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.

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

Pancreas

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

Free Abdomen

Cystic structure in the area of the left ovary caudal to the kidney was present measuring 1.8 cm in diameter. No evidence of concurrent cystic structure caudal to the right kidney. In the area of the right ovary.

ULTRASONOGRAPHIC FINDINGS***Primary Findings***

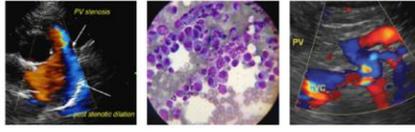
- Prominent mildly nonhomogeneous uterine stump - consistent with uterine stump granuloma, no evidence of uterine stump pyometra
- Cystic structure caudal to the left kidney - consistent with cystic retained left ovarian tissue

Secondary Findings

- Bilateral mild chronic renal changes with minor left kidney pyelectasia
- Discrete nonspecific yet likely benign splenic nodules - probable discrete areas of lymphoid hyperplasia, hematopoiesis, or similar, splenic primary vs. metastatic neoplastic criteria considered unlikely

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The primary finding in this case is likely ovarian remnant syndrome exhibited by cystic retained left ovarian tissue and uterine stump granuloma in conjunction with the patient history. Further assessment may include anti-Mullerian hormone assay, laparotomy with resection of the cystic retained left ovarian tissue, along with removal of uterine stump granuloma to the level of the cervix could be considered. Sonographic monitoring of the splenic nodules, uterine stump granuloma, and cystic retained left ovarian tissue would be a more conservative approach.



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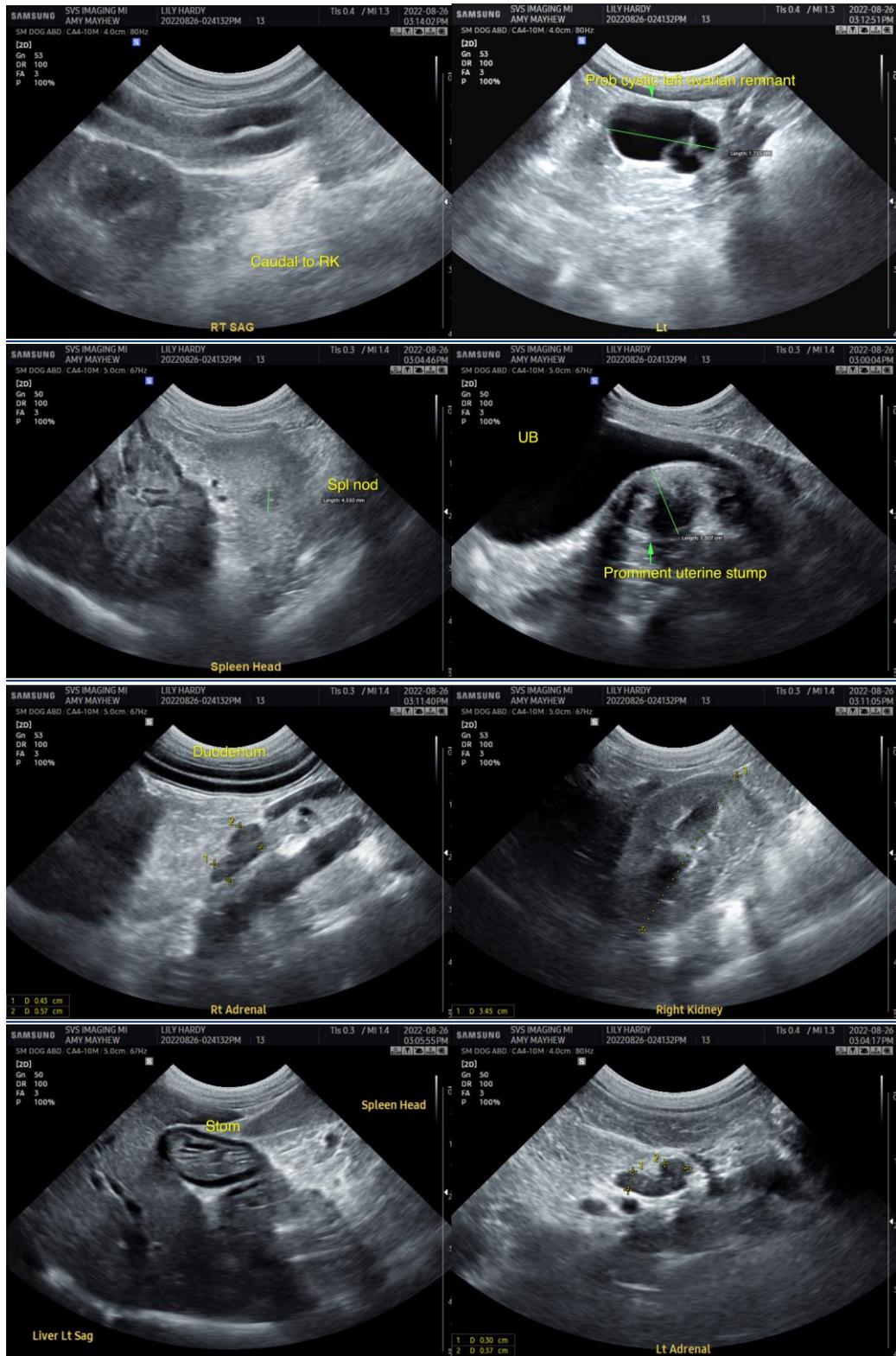
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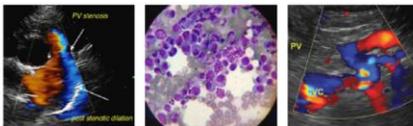
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com