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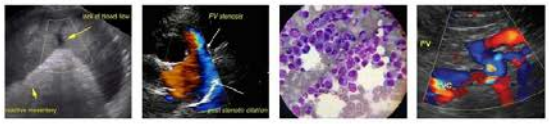


IMAGING PERFORMED BY
pawsonography@gmail.com 530-786-8340

PATIENT

Mr. Sparky Murphy

SPECIES

Canine

BREED

Chi/JRT

SEX

Neutered Male

AGE

12-14 Years

WEIGHT

10 Pounds

INTERPRETED BY

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

IMAGING PERFORMED BY

Loetitia Saint-Jacques, LVT

HOSPITAL NAME

Roundhill AH

REFERRING VET

Dr. Carl Kelly

INVOICE

44808

DATE

2/7/23

PRESENTING CLINICAL SIGNS

Abdominal Ultrasound 1-18-23 Presented for hematuria. UA at that time showed no bacteria or WBC. Significant hematuria and hyposthenuria. Given 0.8cc Enro, put on Amoclav 228/5ml, 2.5cc po bid at that time. 1-31-23 owner noticed hematuria again. 2-2-23 owner noticed hematuria yesterday. During examination prostate was not palpable. Examination of penis reveals "gun metal gray" hypertrophy or swelling or growth. Lesion has a slightly irregular surface and symetrical in its distribution involving the squamous epithelium over the dorsal surface of the "pars longa glandis.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder is mildly to moderately distended with anechoic urine. The Bladder wall is diffusely mildly thickened (0.73 cm), and the mucosa is mildly irregular. The trigone, ureteral papillae, and visible urethra (to a depth of 2cm) appear normal with no evidence of severe mucosal irregularities, masses or cystic calculi. Findings are most consistent with bacterial cystitis or lack of urine distension. Recommend urinalysis and culture.

The prostate is normal in size (1.07 cm) and shape for this neutered male dog. The parenchyma is homogenous, and the external margins are smooth. The prostatic urethra appears normal with no evidence of irregularity, invasion, mass effect or calculi.

The left kidney has a normal shape and size (4.18 cm) with mild pyelectasia at 0.27 cm. Overall echogenicity is slightly hyperechoic with poor corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of focal perinephric inflammation or effusion. There is no evidence of nephroliths, infarcts or hydroureter. Renal vasculature is normal.

The right kidney has a normal shape and size (3.9 cm). Overall echogenicity is slightly hyperechoic with poor corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of focal perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

Adrenal Glands

The left adrenal gland is normal in size measuring 0.73 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.

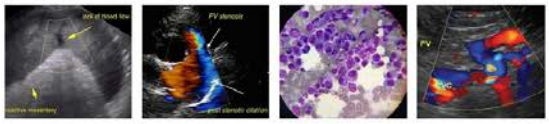
The right adrenal gland is normal in size measuring 0.70 cm at the caudal pole. It is observed in its normal position between the cranial aspect of the right kidney and the caudal vena cava. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

Spleen

The spleen is subjectively normal in size, echotexture is homogenous, and the splenic capsule is smooth with no irregularities. The blood flow through the hilus and splenic parenchyma appears normal. No focal parenchymal abnormalities are visualized.

Liver

The liver is subjectively normal in size but irregular. The parenchyma is heterogenous in echotexture with subtle, indistinct focal mottling. The visible portions of the vasculature and biliary tract appear



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normal. There are too numerous to count ill-defined hypoechoic nodules visualized throughout the parenchyma. Some of these mildly deviate the hepatic margins. Examples of these lesions measure at 1.08 cm and 0.96 cm.

The gallbladder lumen is moderately distended. The wall of the gall bladder is not thickened and has a smooth mucosal surface. Luminal contents are mild and primarily anechoic. The cystic and common bile ducts are normal/not visible.

Gastrointestinal

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.

The visualized areas of duodenum, jejunum and ileum have a uniform diameter with minimal fluid distension. Wall thickness is normal to slightly increased. Bowel loops follow a typical curvilinear path with distinct wall layering, but some areas display a prominent muscularis layer which does not display the typical 1:3 muscularis:mucosa layer ratio. Duodenum wall measures 0.42 cm. Jejunum wall measures 0.39 cm. Mild mucosal speckling is visualized in the jejunum. Visualized peristalsis appears appropriate. There were no focal lesions consistent with obstruction or a mass effect observed.

The ileocecal junction was visualized and exhibited normal intact wall layering and is subjectively of normal thickness. Sections of colon are visualized with non-formed fecal material and gas shadowing distally. The colon was is mildly prominent/thickened at 0.31 cm.

Pancreas

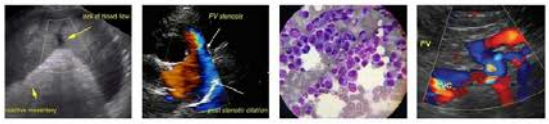
The pancreas is normal and isoechoic to surrounding mesentery. There is no evidence of nodules or cystic lesions. There is no evidence of regional mesenteric inflammation or fluid.

Free Abdomen

Evaluation of the peritoneal cavity did not reveal any evidence of effusion, or subjective lymphadenomegaly. The Medial iliac nodes appear normal and there was no evidence of a caudal aortic thrombus at the bifurcation. The omentum is of normal uniform echogenicity.

ULTRASONOGRAPHIC FINDINGS

- Thickened, irregular urinary bladder wall – The bladder mucosal changes could be consistent with cystitis or artifactual due to lack of adequate luminal distension. Bladder neoplasia cannot be ruled out but is considered unlikely in this patient.
- Decreased corticomedullary distinction in both kidneys with mild left-sided pyelectasia – The bilateral renal findings are consistent with age-related change. Pyelectasia of the kidney(s)could be consistent with pyelonephritis, chronic renal disease, secondary to PU/PD or fluid therapy (if applicable), other.
- Heterogeneous liver with ill-defined hypoechoic nodules – 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. The nodules observed trend toward a more benign process but underlying neoplasia cannot be ruled out.



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- Moderate ingesta in the stomach – 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.
- Subjectively thickened small intestine with mild mucosal speckling – Bright mucosal speckling has been postulated to represent dilated lacteals or focal accumulations of mucus, cellular debris, etc.. in the mucosal crypts.
- Subjectively thickened colon wall with non-formed fecal material – This could be within normal limits for this individual or be consistent with colitis, or less likely infiltrative disease.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

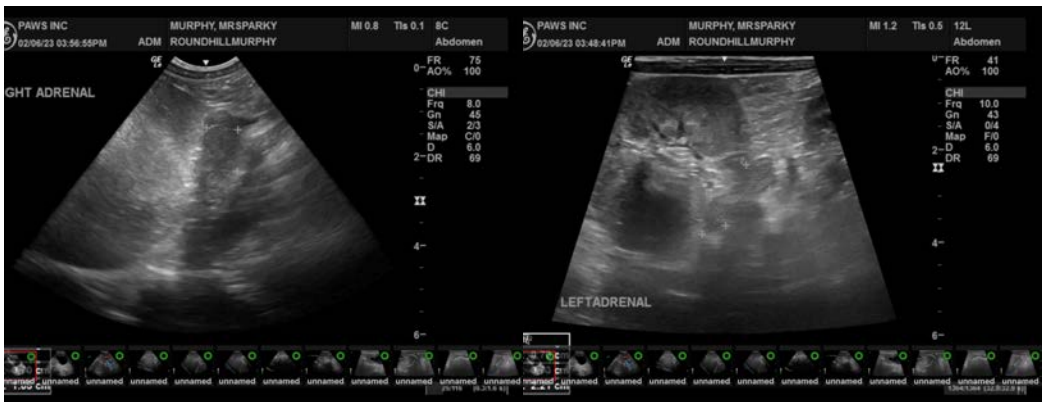
The urinary bladder wall is diffusely thickened and irregular. No focal lesions are visualized, but there is lack of distention of the urinary bladder, making full evaluation of the urinary bladder difficult. Recommend a urinalysis and culture.

The changes in the kidneys are most consistent with chronic progressive age related renal disease. Recommend a blood pressure, urinalysis and culture as a baseline.

The liver is diffusely irregular and nodular with heterogeneous parenchyma. These are somewhat non-specific findings, and the nodular appearance to the liver trends towards a more benign etiology. Correlate this with liver enzyme values and consider a liver function test +/- fine needle aspirate of the liver (provided coagulation parameters are normal).

The small bowel and large bowel wall appear slightly thickened/prominent – Correlate with clinical signs, is there a history of underlying GI issues? If so, workup for underlying gastrointestinal disease may be indicated.

Recommend three view thoracic radiographs to evaluate for possible concurrent thoracic disease/involvement.



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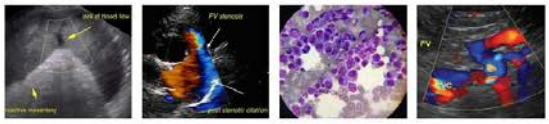

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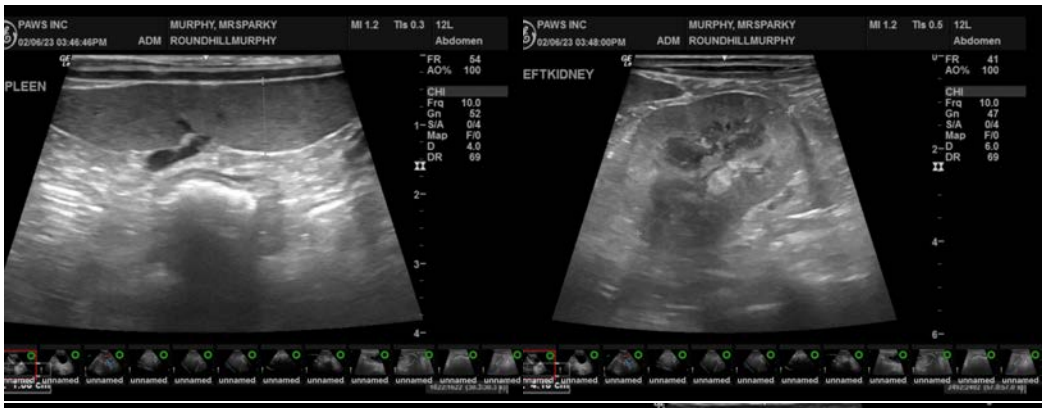

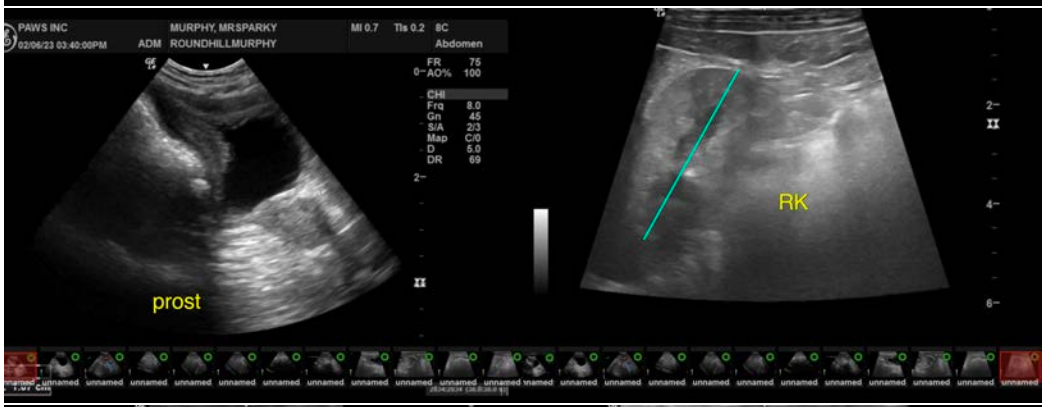

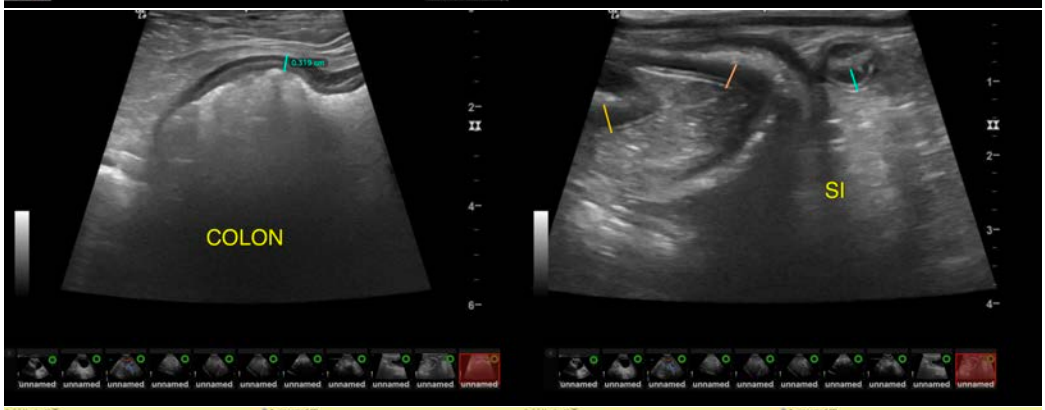

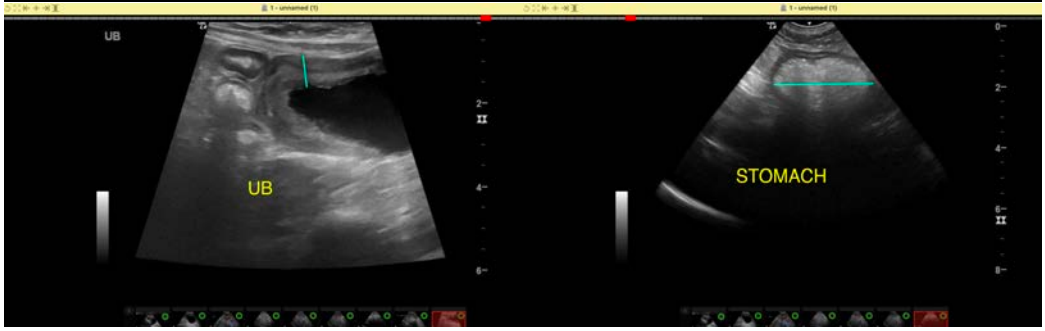

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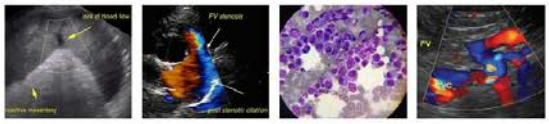

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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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

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