



PATIENT

Scooby Waldron

SPECIES

Canine

BREED

Plott Hound

SEX

Neutered Male

AGE

6.5 Years

WEIGHT

N/A

INTERPRETED BY

Lisa Carioto, DVM,
DVSc, Diplomate
ACVIM

IMAGING PERFORMED BY

Kelly Vazquez

HOSPITAL NAME

Midland Park VH

REFERRING VET

Dr. John Shokoff

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39089

DATE

6/28/22

PRESENTING CLINICAL SIGNS

Acute hematuria, no straining or discomfort. No other clinical issues. Hematuria did resolve with Clavamox. No current meds.

Abnormal PE/Chem/CBC/UA Results: CBC/Chem/T4: all WNLs. U/A: pH 5.5, Protein 2+, occult blood 3+, RBC 11-20, CaOx crystals 2-3 HPF, USG: 1.047.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder** is well distended. Its contents are primarily anechoic. No abnormalities are noted with the trigone or proximal urethra. A hyperechoic structure casting an acoustic shadow, measuring at least 0.43 cm in length, is noted along the ventral wall. The structure is consistent with a cystolith. Multiple, small mineralizations or mineralized sediment is also observed along the ventral wall.

The wall is thickened and irregular in certain regions, for example, along the dorsal wall (4.8 mm) and junction of the dorsal wall and apex. A polyploid cystitis may be developing along the dorsal wall, however, there is no evidence of a mass.

Prostate

The prostate is homogenous and measures 8.2 mm; within normal limits for a neutered male.

Kidneys

The **left kidney** measures 6.94 cm. The capsule is smooth. The cortex is mildly hyperechoic, i.e. it is isoechoic to the spleen. Its overall architecture, including the definition of the cortico-medullary junction, is preserved. There are no signs of nephroliths or pyelectasia. The surrounding mesentery is not hyperechoic. Blood flow is within normal limits. The surrounding mesentery is not hyperechoic.

The **right kidney** measures approximately 5.32 cm. It is underestimated due to the gas in the surrounding GI tract. Findings are similar to the left kidney.

Aortic bifurcation/trifurcation

No abnormalities observed.

Adrenal Glands

The **left adrenal gland** measures 0.41 cm at the cranial pole, 0.43 cm at the caudal pole and 1.99 cm in length. 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 0.61 cm at the cranial pole, 0.60 cm at the caudal pole and 2.56 cm in length. No abnormalities are noted with the gland's overall architecture, echogenicity or echotexture. The phrenico-abdominal vein and surrounding vasculature and mesentery are unremarkable.

Spleen

The spleen is within normal limits in size, architecture, echotexture, and echogenicity. The capsule is smooth. No abnormalities are observed with its vasculature, i.e. congestion and thrombi are not identified.



PATIENT	Liver
Scooby Waldron	Mild hepatomegaly cannot be excluded, however, hepatic size is best evaluated at the time of the ultrasound or radiographically. The liver's borders are smooth, and sharp. A diffuse, coarse and granular echotexture is observed. Focal lesions are not visualized. No obvious abnormalities are noted with the hepatic vessels.
SPECIES	
Canine	The gallbladder wall is within normal limits in thickness and echogenicity. A small amount of echogenic material is present within the GB. 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.
BREED	
Plott Hound	Gastrointestinal
SEX	A large amount of ingesta and gas are present in the stomach lumen. The gastric wall is within normal limits in thickness and the wall layers are well defined. No obvious abnormalities are observed with its peristalsis.
Neutered Male	A large amount of ingesta and fluid are present in the small intestines. Small intestinal wall thickness, including the duodenum, is within normal limits and the definition of the wall layers is preserved. Abnormally dilated loops of bowel are not observed.
AGE	The colonic wall is not thickened and mural detail is considered normal.
6.5 Years	Pancreas
WEIGHT	The pancreas has a mildly coarse echotexture, and is mildly heterogeneous. It consists of hypoechoic nodules of variable size and pinpoint to punctate hyperechoic foci scattered throughout the parenchyma. These changes are suggestive of nodular hyperplasia and fibrosis, respectively. Fibrosis may be an age-related change, secondary to previous episodes of pancreatitis, mineralization and amyloid deposition. Signs of active pancreatitis or neoplasia are not appreciated.
N/A	
INTERPRETED BY	Other
Lisa Carioto, DVM, DVSc, Diplomate ACVIM	Lymph nodes
IMAGING PERFORMED BY	No abnormalities are observed
Kelly Vazquez	Abdominal effusion is not visualized.
HOSPITAL NAME	ULTRASONOGRAPHIC FINDINGS
Midland Park VH	<ul style="list-style-type: none"> Urinary bladder: A cystolith is observed, in addition to mineralized sediment. Mild thickening and irregularity of the mucosa is present, which may be due to an underlying urinary tract infection and early polyploid cystitis. Kidneys: Mild hyperechogenicity of both cortices may be due to early age-related changes. Pyelonephritis cannot be excluded despite the absence of classical sonographic changes. Liver: Mild hepatomegaly cannot be excluded. The diffuse, coarse and granular echotexture is observed may be due to a reactive hepatopathy, however, evaluation of liver enzyme activities is suggested. Gallbladder: Gallbladder sludge is likely clinically insignificant. Pancreas: Significant abnormalities are not observed. Changes are suggestive of nodular hyperplasia and fibrosis, i.e., age-related changes. Fibrosis may also occur secondary to
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previous episodes of pancreatitis and mineralization. Signs of active pancreatitis or neoplasia are not appreciated.

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Canine

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

A urine culture and sensitivity is suggested either prior to the cystotomy, or at the time of surgery, at which time mineralized sediment may be crushed and submitted for culture, in addition to a small biopsy of the bladder mucosa to exclude a deeper infection (polyploid cystitis).

BREED

Plott Hound

Appropriate diet based on cystolith analysis.

SEX

Neutered Male

Ensure adequate water consumption, allow for frequent voiding, if once daily antibiotic being administered, give at night, etc.

Analgesia (e.g., gabapentin), pending cystotomy.

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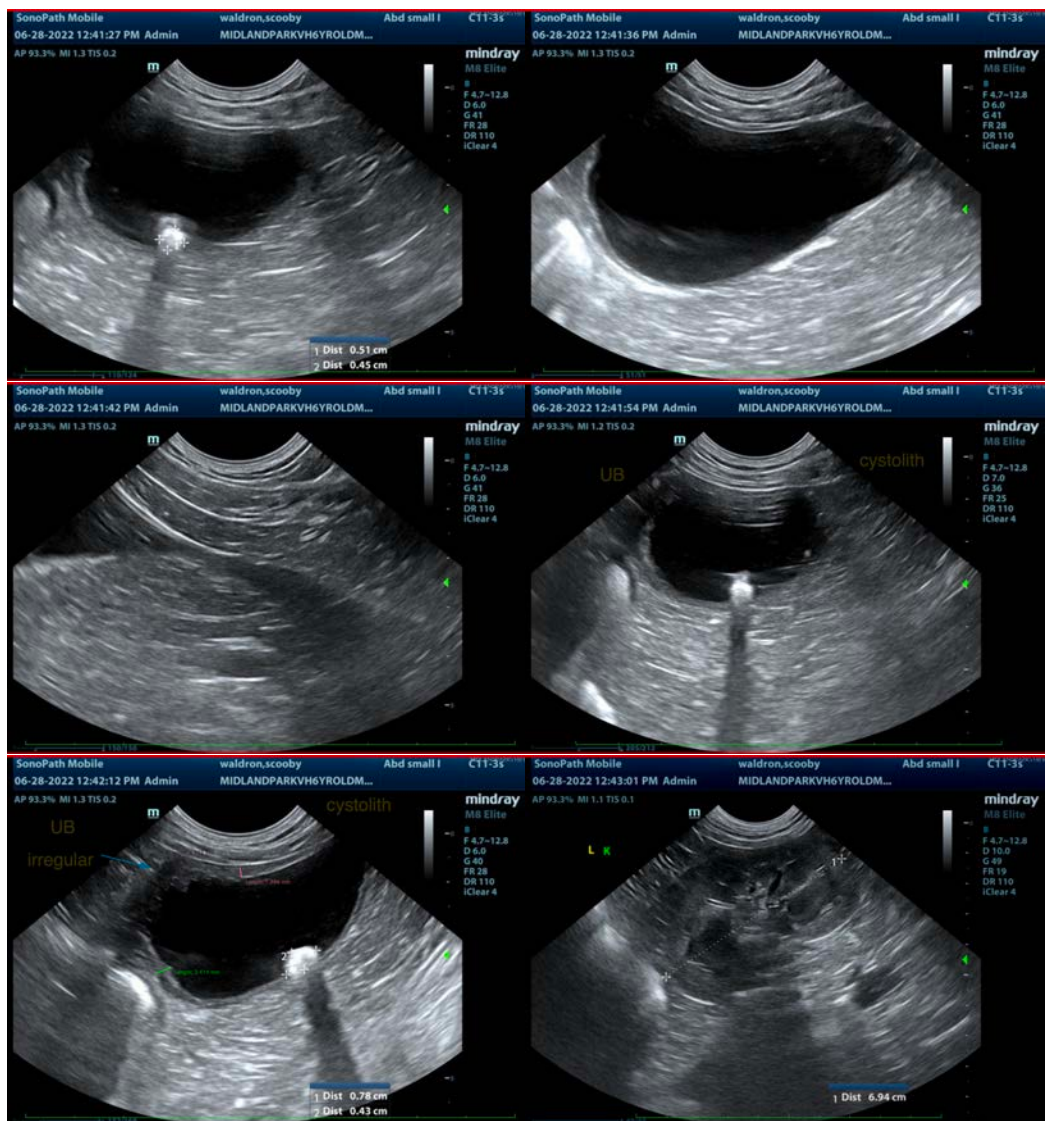
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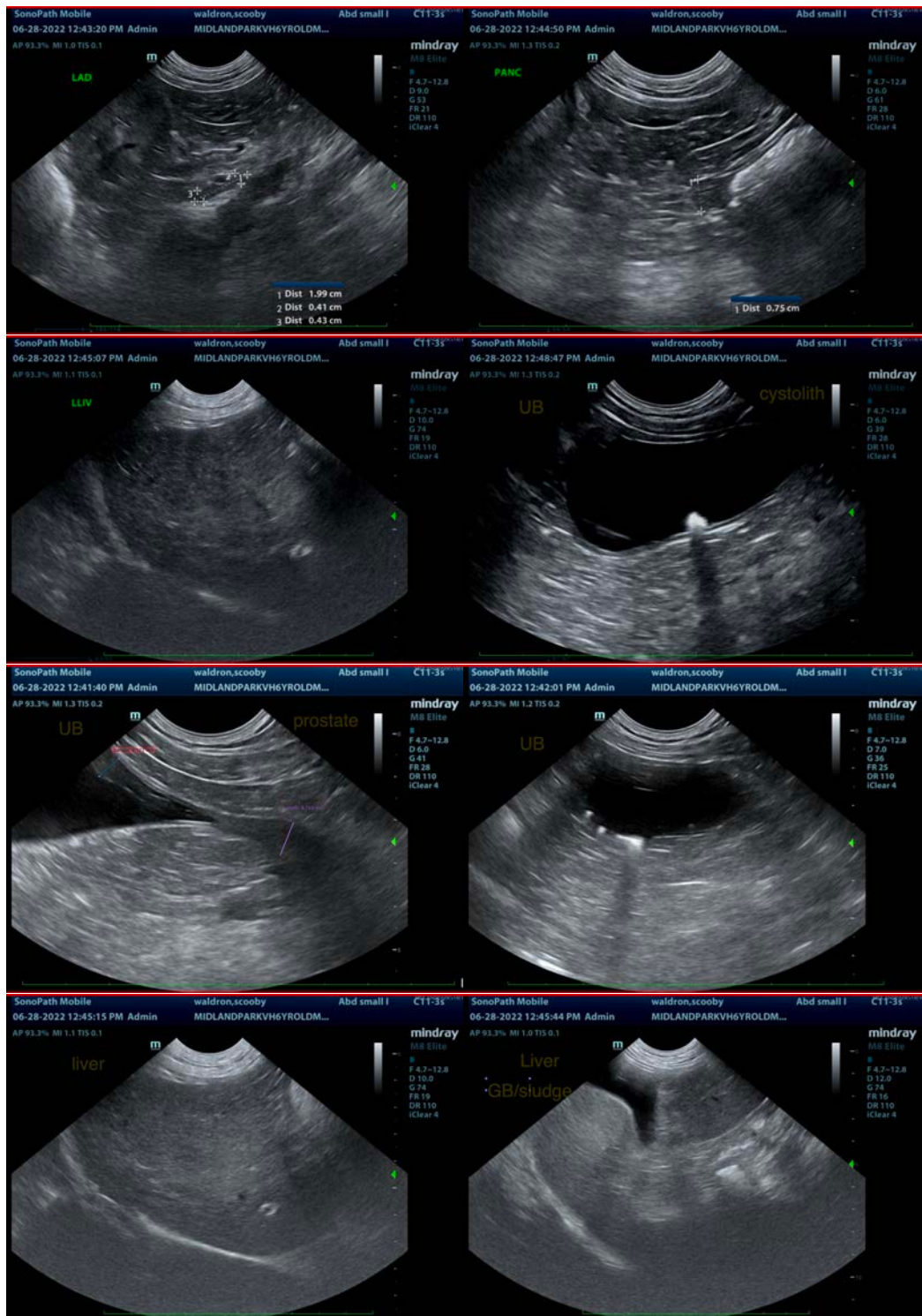
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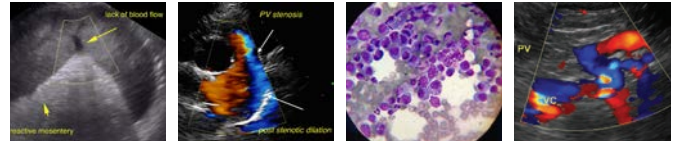
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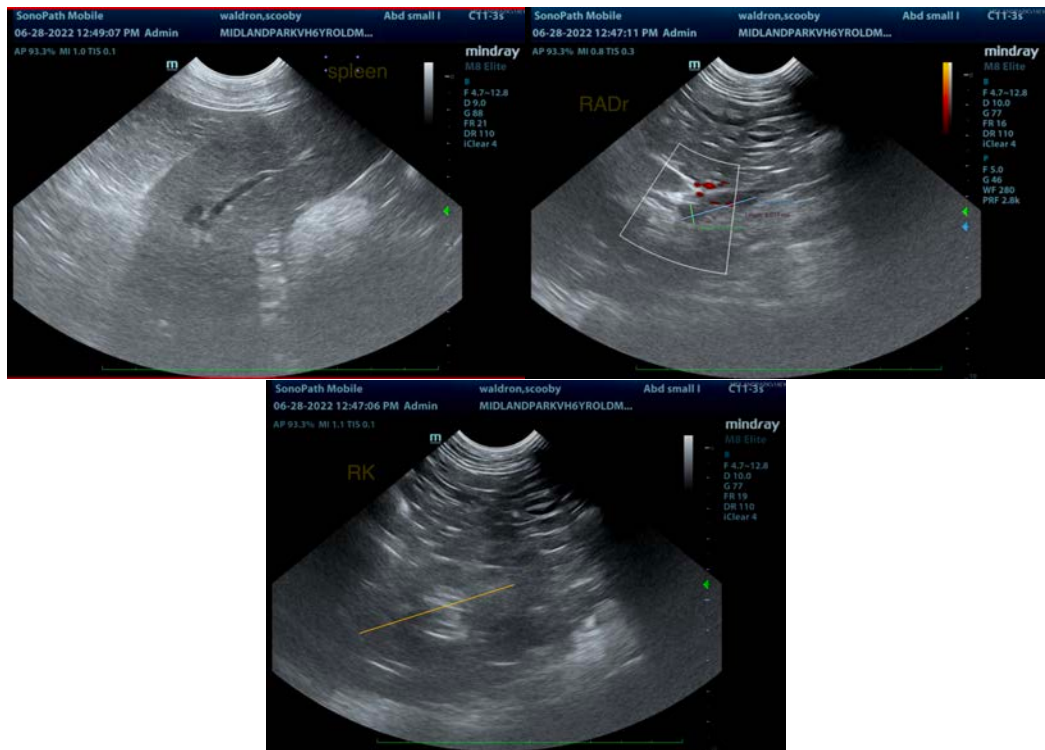
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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)

kathleen.sennello@sonopath.com