**PATIENT PRESENTING CLINICAL SIGNS**

Kymi Cole History: Geriatric blood screen

SPECIES

Abnormal PE/Chem/CBC/UA Results:

2/19/2023: ALP 406 ALT 130

4/18/2023: ALP 452 ALT 137

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**BREED****Urinary System**

Terrier

The urinary bladder is moderately distended. The wall is normal in thickness with a smooth mucosal surface. A small to moderate amount of mineralized sand +/- tiny caluli is observed within the lumen, along with some suspended debris. The region of the trigone and the proximal urethra, visible to a depth of 2-3 cm, are normal.

SEX

Spayed Female

The left kidney is normal in size (4.58 cm in length) with a normal shape, smooth peripheral margins, and normal internal architecture. There is mild loss of corticomedullary distinction. Several hyperechoic shadowing diverticular foci are observed. There is no evidence of pyelectasia, infarcts or hydronephrosis.

AGE

12.5 years

The right kidney is normal in size (4.97 cm in length) with a normal shape, smooth peripheral margins, and normal internal architecture. There is minimal loss of corticomedullary distinction. Several hyperechoic shadowing diverticular foci are observed. There is no evidence of pyelectasia, infarcts or hydronephrosis.

WEIGHT

20 lbs

Adrenal Glands

The left adrenal gland is normal in size (0.50 cm at cranial pole) (0.45 cm at caudal pole) with a normal shape and homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

INTERPRETED BY

Andrea Nicastro, DVM,
Diplomate ACVIM (*Small
Animal Internal Medicine*)

The right adrenal gland is in normal size (0.58 cm at cranial pole) (0.45 cm at caudal pole) with a normal shape and homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

IMAGING PERFORMED BY

Amy Mayhew LVT

Spleen

The spleen is normal in size (1.52 cm in width at the level of the hilus) with a normal capsular contour. There is appropriate echogenicity and echotexture. No focal lesions are observed. Splenic vasculature is normal.

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Liver

The liver is subjectively normal to slightly prominent in size with normal curvilinear peripheral contours. The parenchyma is hypoechoic relative to the spleen and homogenous in appearance. Hepatic vasculature and intrahepatic biliary tracts are of normal volume with no evidence of congestion.

REFERRING VET

Lauren Liba DVM

The gall bladder lumen is moderately distended. The wall is thin and smooth. A small to moderate amount of aggregated, echogenic to mineralized sand, mostly gravity-dependent sludge is observed within the lumen. The cystic and common bile ducts are normal/not seen.

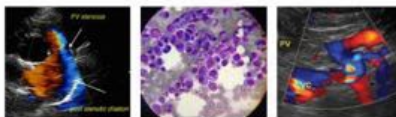
Gastrointestinal**INVOICE**

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The stomach and intestine are free of stasis and exhibit normal peristaltic activity. The gastric lumen is not distended. The gastric wall and pylorus are normal in thickness with a normal layering pattern. The pyloric outflow tract is patent. The small intestinal lumen is not dilated. The small intestinal wall is normal in

DATE

4.24.23



PATIENT thickness with a normal layering pattern and appropriate mural detail. Discreet masses are not identified. The colonic wall is normal. There is no evidence of an obstructive pattern.

Kymi Cole

Pancreas

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The right limb of the pancreas is visible with normal curvilinear peripheral contours. The parenchyma is largely isoechoic relative to surrounding omental fat and slightly mottled in appearance. The pancreatic duct is visible but not overtly dilated. There is no evidence of peripancreatic inflammation or effusion.

Canine

Free Abdomen

BREED

The peritoneal cavity is normal. There is no evidence of inflammation or effusion. The abdominal lymph nodes are normal/not visible.

Terrier

ULTRASONOGRAPHIC FINDINGS

SEX

Primary Findings

Spayed Female

- An obvious cause for the patient's elevated liver values is not definitively identified in this study. However, given the liver enzyme pattern and the sonographic appearance of the liver, a benign process (i.e., early vacuolar hepatopathy, age-related remodeling, or microscopic regenerative nodular hyperplasia is suspected) with a lower possibility of more insidious hepatic pathology.

AGE

12.5 years

Secondary Findings

WEIGHT

20 lbs

- Gall bladder sludge, non-mucocele
- Minor bilateral renal dystrophic mineralization
- Minor age-related pancreatic remodeling
- Urinary bladder sand +/- tiny calculi

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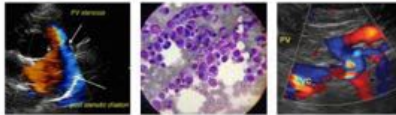
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

- Serial monitoring (i.e., every 3-4 months) of the patient's liver values is recommended. If values continue to increase, a repeat abdomen ultrasound +/- a more advanced hepatic work-up (i.e., tissue sampling) may be warranted.
- Given the urinary bladder changes, a urinalysis +/- culture and sensitivity should be considered. Also consider initiation of a prescription urinary diet.

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PATIENT

Kymi Cole

SPECIES

Canine

BREED

Terrier

SEX

Spayed Female

AGE

12.5 years

WEIGHT

20 lbs

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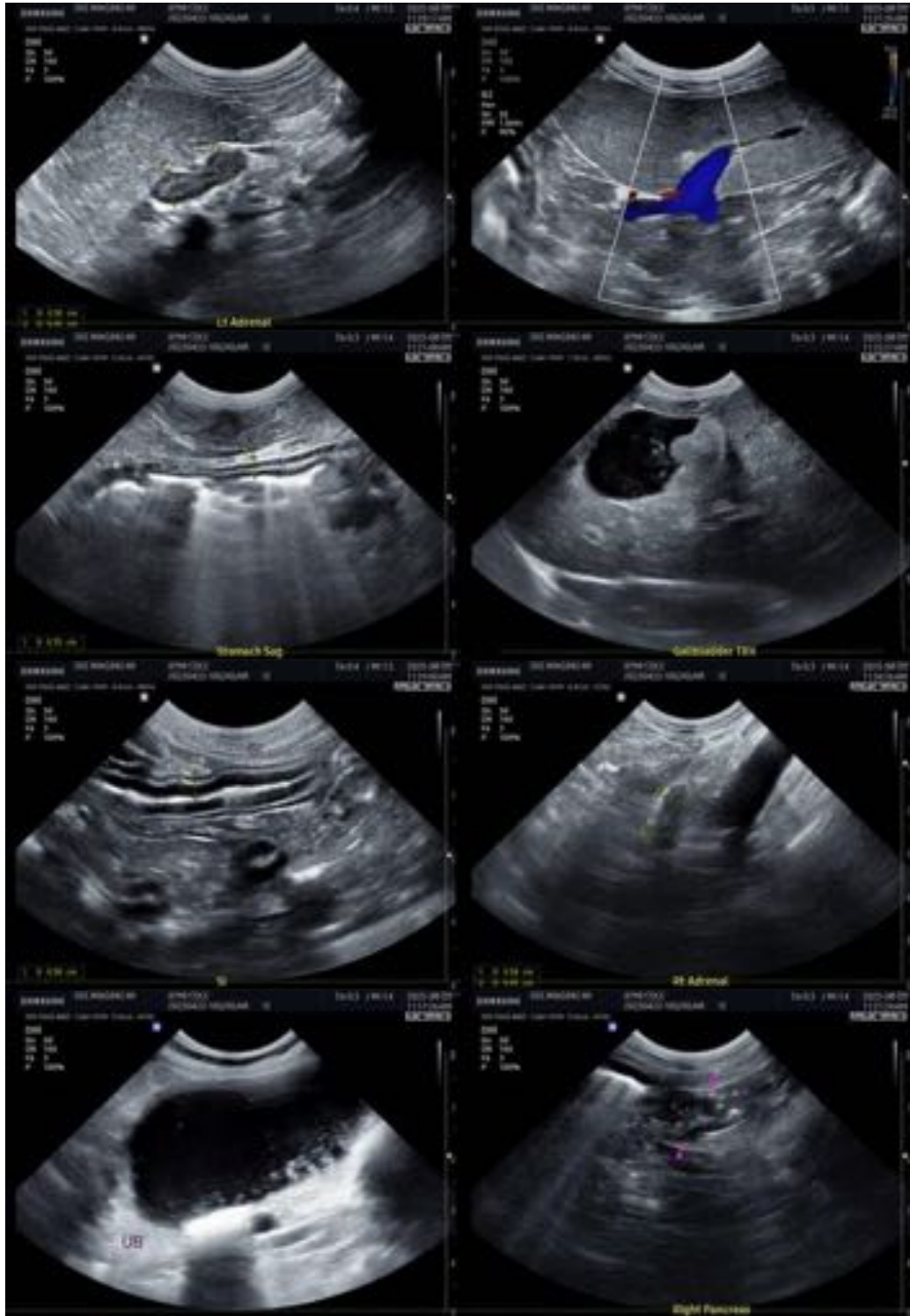
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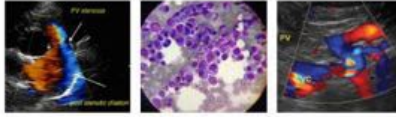
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in

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PATIENT the image/video clips provided.

Kymi Cole 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.

SPECIES **Andrea Nicastro, MPH, DVM, Diplomate DACVIM (Small Animal Internal Medicine)**
info@SonoPath.com

Canine

BREED

Terrier

SEX

Spayed Female

AGE

12.5 years

WEIGHT

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