



PATIENT

Rafa Turbett

PRESENTING CLINICAL SIGNS

History: AUS met check, dx with anal sac adenocarcinoma. No current meds
Abnormal PE/Chem/CBC/UA Results: wnl

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

German Shepherd

Urinary System

The urinary bladder is under filled, and one cannot measure the wall accurately. However, the mucosa is mildly irregular, which is suggestive of cystitis. There is no evidence of sediment, cystoliths, polyps or a mass.

SEX

Neutered male

The prostate measures 1.56 cm, which is most likely within normal limits for a neutered male. Subjectively, however, its form appears slightly “swollen” and although its echotexture is homogeneous, its capsule is not completely smooth, dorsally.

AGE

7 years

The left kidney measures 8.47 cm (within normal limits). The capsule is smooth. The cortex is mildly hyperechoic and a mild loss of the normal definition of the cortico-medullary junction is present. Very small, punctate, mineralizations of the diverticulae are present without evidence of nephroliths or pyelectasia. The surrounding mesentery is not hyperechoic.

WEIGHT

81.5 lbs

The right kidney measures 8.02 cm (within normal limits). Findings are similar to the left.

INTERPRETED BY

Lisa Carioto, DVM,
DVSc, Diplomate
ACVIM

Adrenal Glands

The left adrenal gland measures 0.42 cm at the cranial pole, 0.47 cm at the caudal pole and it is 1.99 cm in length. It appears slightly flattened, but measurements are within normal limits. No abnormalities are noted with the overall architecture, echogenicity or echotexture. The phrenico-abdominal vein and surrounding vasculature and mesentery are unremarkable.

IMAGING PERFORMED BY

Shari Reffi CVT

The right adrenal gland measures 0.57 cm at the cranial pole, 0.57 cm at the caudal pole and 1.89 cm in length. No abnormalities are noted with the gland’s shape, overall architecture, echogenicity or echotexture. The phrenico-abdominal vein and surrounding vasculature and mesentery are unremarkable.

HOSPITAL NAME

VCA Blirstown AH

Spleen

No abnormalities are observed with its size, echotexture, and echogenicity, and the capsule is smooth. No abnormalities are noted with the vasculature, i.e. congestion and thrombi are not identified.

REFERRING VET

Dr. Clegg

Liver

There are no obvious signs of hepatomegaly and the liver borders are smooth and sharp. The echotexture is diffusely granular and mildly hyperechoic. Multiple, hyperechoic punctate foci are observed throughout the hepatic parenchyma. The liver is isoechoic to the kidney. No abnormalities are observed with the hepatic vessels.

INVOICE

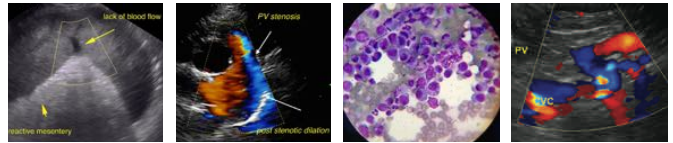
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4/1/22



PATIENT	A trivial amount of echogenic material is visualized within the gallbladder, which is considered clinically insignificant. The biliary system is otherwise within normal limits.
Rafa Turbett	
SPECIES	Gastrointestinal
Canine	The gastric wall and pylorus are within normal limits in thickness. There is no loss of definition of the normal architecture of the wall layers. No obvious abnormalities are observed with its peristalsis.
BREED	The duodenum is normal limits in thickness, however, the mucosa is prominent. Furthermore, both stippling and striations are present. In the region of the spleen, multiple loops of bowel are within normal limits in thickness, however, many of them have striations and fogging of the mucosa and the surrounding mesentery is markedly hyperechoic. A very small, hypoechoic, well circumscribed nodule is also observed adjacent to a loop of jejunum, also in the region of the spleen.
German Shepherd	
SEX	Dilated loops of bowel are not observed. Ingesta is present in the transverse colon. The colonic wall is not thickened and mural detail is considered normal. There are no obvious signs of a mass, foreign body, or an obstruction.
Neutered male	
AGE	Pancreas
7 years	The right limb of the pancreas is not well visualized due to the gas in the surrounding gastrointestinal tract. The small portion of the left limb visualized appears within normal limits in echogenicity and echotexture, however, it may be decreased in size, i.e. atrophied.
WEIGHT	
81.5 lbs	
INTERPRETED BY	Other
Lisa Carioto, DVM, DVSc, Diplomate ACVIM	Lymph nodes: No abnormalities are observed.
IMAGING PERFORMED BY	A well circumscribed, hypoechoic nodule, measuring 7.05 mm x 7.72 mm, is observed amongst the mesentery in the region of the jejunum. It does not appear consistent with a lymph node.
Shari Reffi CVT	Abdominal effusion is not visualized.
HOSPITAL NAME	Heart
VCA Blirstown AH	A brief video clip of the heart was submitted. The valve leaflets are thin and regular, cardiac contractility appears normal and there are no obvious signs of a mass. No pericardial or pleural effusion is identified.
REFERRING VET	ULTRASONOGRAPHIC FINDINGS
Dr. Clegg	<ul style="list-style-type: none"> • Apex of urinary bladder is mildly irregular • Neoplastic infiltration of the prostate (adenocarcinoma of the anal sac) cannot be excluded. • Very mild degenerative changes of both kidneys are observed, which are suggestive of age related degeneration.
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- The hepatic changes are suggestive of a reactive hepatopathy. However, some of the changes may also be consistent with a vacuolar hepatopathy due to chronic illness. There are no obvious signs of hepatitis, cirrhosis or neoplasia.

SPECIES

Canine

- Differential diagnoses for the gastrointestinal abnormalities observed include inflammatory bowel disease; however, protein losing enteropathy, such as lymphangiectasia, must also be considered. The gastrointestinal changes may also occur secondary to exocrine pancreatic insufficiency, which could also explain the findings noted with the pancreas. Infiltrative disease is considered much less likely, but cannot be excluded without performing biopsies. It should also be noted that sonographic abnormalities of the gastrointestinal tract do not always correlate with disease, i.e. an individual may show sonographic abnormalities of the GI tract, yet not show any clinical signs. Therefore, the changes observed may not be clinically significant for Rafa.

BREED

German Shepherd

SEX

Neutered male

- The diffusely hyperechoic mesentery surrounding the gastrointestinal tract surrounding the spleen may be due inflammatory bowel disease, lymphangiectasia or protein losing enteropathy. The hypoechoic nodules observed may be lipogranulomas. Metastases seem less likely as concurrent lymphadenomegaly is not observed, however, fine needle aspirates of the nodules would be required to confirm this statement

AGE

7 years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

WEIGHT

81.5 lbs

A urinalysis and urine culture and sensitivity are suggested to exclude a urinary tract infection due to the mildly irregular bladder wall.

A prostatic wash is suggested to exclude metastatic disease to the prostate. Note, the urine sample for the urinalysis should be obtained free flow or at the time of the prostatic wash.

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Lisa Carioto, DVM, DVSc, Diplomate ACVIM

Depending on Rafa's clinical signs, one could consider performing a TLI, cobalamin and folate.

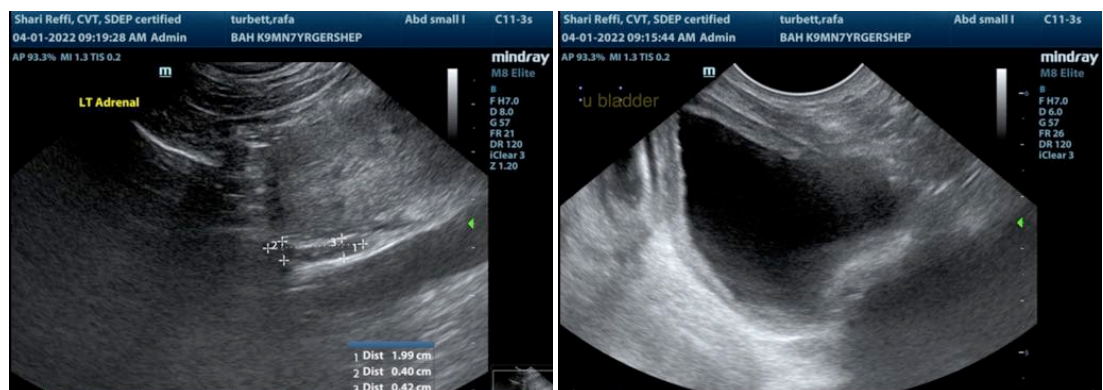
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A FNA of the nodules and liver could be performed to confirm the suspicion of lipogranulomas and a reactive hepatopathy, respectively. Another option is to re-evaluate the liver and the nodules following treatment for the adenocarcinoma of the anal sac.

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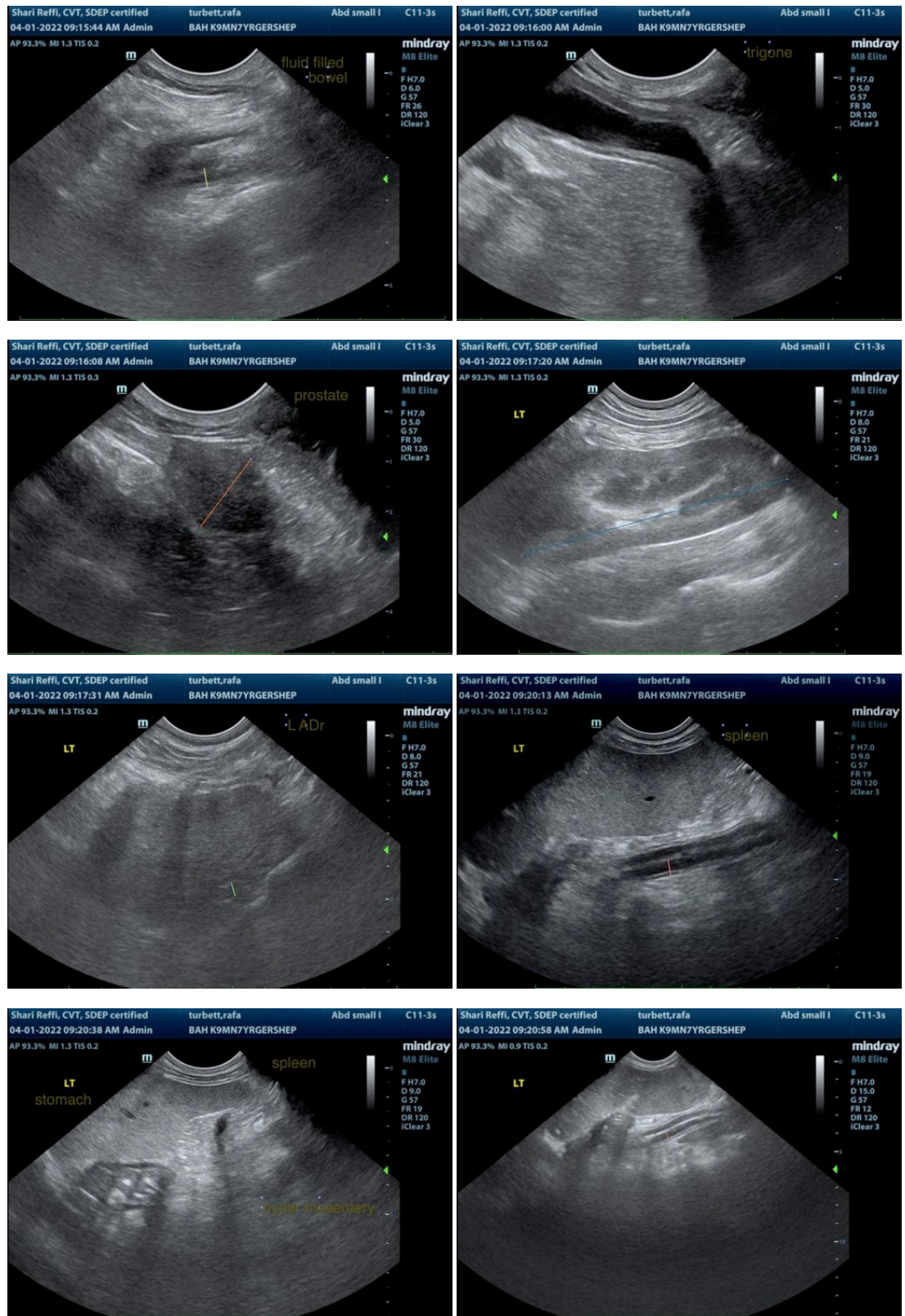
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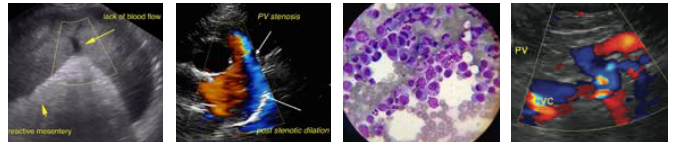
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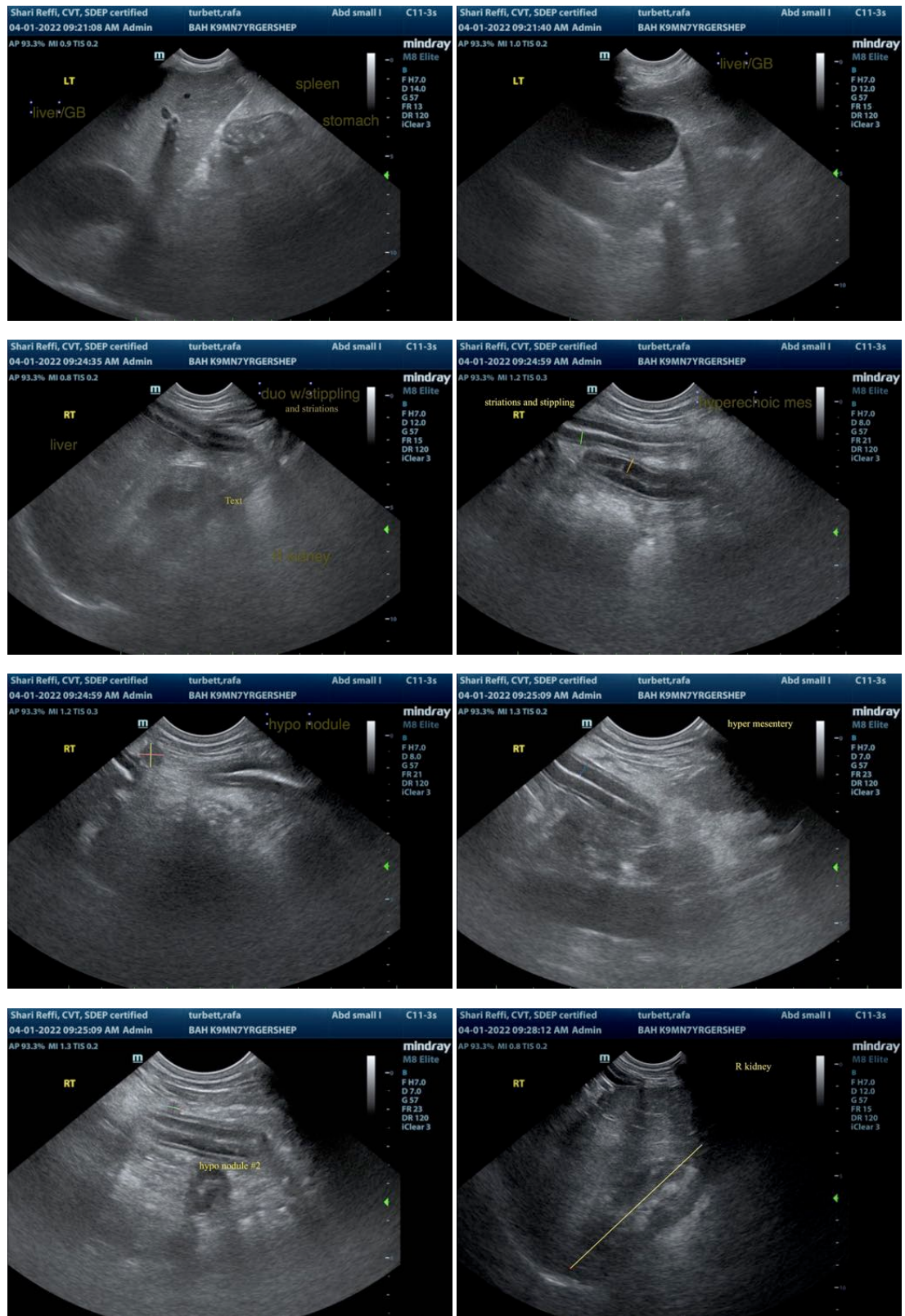
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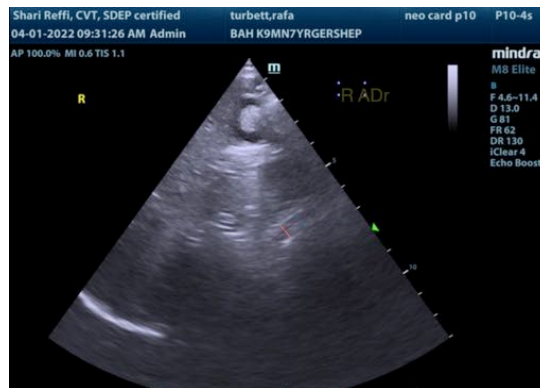
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Lisa Carioto, DVM, DVSc, Diplomate ACVIM

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