

PATIENT PRESENTING CLINICAL SIGNS

Kipper Moss History: History of anorexia, PE was otherwise normal. High anxiety guy in clinic, will be given Gabapentin and Trazodone for day of ultrasound scan. No other meds currently.

SPECIES Abnormal PE/Chem/CBC/UA Results: High ALP (249) high T. Bili (13) and high Calcium (3.14) No rads taken, opted to go straight to ultrasound.

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED *Urinary System*

Border Collie The urinary bladder wall is normal in thickness and the mucosal surface is smooth. The bladder is moderately distended. A small amount of suspended echogenic debris is observed within the lumen. No cystic calculi are observed. The region of the trigone and the proximal urethra, visible to a depth of 2 cm, are normal.

SEX

Neutered Male The prostate is normal in size (0.95 cm in width) and shape. Parenchyma is homogenous. The prostatic urethra appears normal without evidence of dilation or obstruction.

AGE

12 years The left kidney is normal in size (6.17 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. Renal vasculature is normal.

WEIGHT

57 lbs The right kidney is normal in size (6.75 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. Renal vasculature is normal.

INTERPRETED BY

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

IMAGING PERFORMED BY

Crystal Hill

Adrenal Glands

The left adrenal gland is normal in size (0.83 cm at cranial pole) (0.69 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 appears normal.

The region of the right adrenal gland is evaluated. No obvious pathology is observed in this region.

Spleen

The spleen is normal in size (2.13 cm in width at the level of the hilus) with a normal capsular contour. The parenchyma is mildly heterogenous in appearance. Several irregular hypoechoic nodules/areas are observed throughout the organ. A few of the nodules are more isoechoic relative to surrounding parenchyma. Splenic vasculature appears normal.

HOSPITAL NAME

Prince Charles AH

Liver

The liver is subjectively normal in size with suspected slightly irregular peripheral contours on the right side, at the caudal aspect. The parenchyma is isoechoic relative to the spleen and is slightly mottled in appearance. There is a questionable 4.77 cm mass effect on the right side, at the caudal aspect, although this area is difficult to fully visualize. Hepatic vasculature and intrahepatic biliary tracts are of normal volume with no evidence of congestion.

REFERRING VET

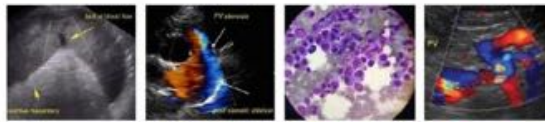
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INVOICE

12801 The gall bladder is moderately distended. The wall is normal in thickness. A 2.63 cm cholelith is observed within the lumen. The cystic and common bile ducts are normal/not seen.

DATE

4.20.23 **Gastrointestinal**
The lumen is not distended. The gastric wall is normal in thickness with a normal layering pattern. The small intestinal lumen is not dilated. The small intestinal wall thickness is normal with a normal



PATIENT

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

Kipper Moss

Pancreas

The region of the pancreas is isoechoic relative to surrounding omental fat. No obvious parenchymal abnormalities are observed. There is no evidence of regional inflammation or effusion.

SPECIES

Canine

Free Abdomen

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

BREED

Border Collie

ULTRASONOGRAPHIC FINDINGS

Primary Findings

SEX

- Questionable right caudal hepatic mass effect. This may represent a true mass (i.e., adenoma, adenocarcinoma, lymphoma) versus an inflammatory focus, versus regenerative nodule, versus imaging artifact.

Neutered Male

AGE

Secondary Findings

12 years

- Cholelith, likely incidental and nonobstructive
- Minor bilateral age-related renal changes with subtle dystrophic mineralization
- The splenic nodules could be consistent with a benign process (i.e., myelolipomas), with a lower possibility of emerging neoplasia.

WEIGHT

57 lbs

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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- Given the questionable mass effect in the liver, consider the following:
 1. Three-view thoracic radiographs are recommended to assess for pulmonary metastases.
 2. Additional hepatic imaging (i.e., more sonographic images or an abdominal CT scan) to further characterize the area in question.
- Regarding the splenic changes, consider a fine-needle aspirate (if clotting status is normal). A 25-gauge needle should be used.
- Regarding the hypercalcemia, also consider a rectal examination to assess for anal gland tumors, as well as an ionized calcium/PTH/PTHrP (Send to Michigan State.).



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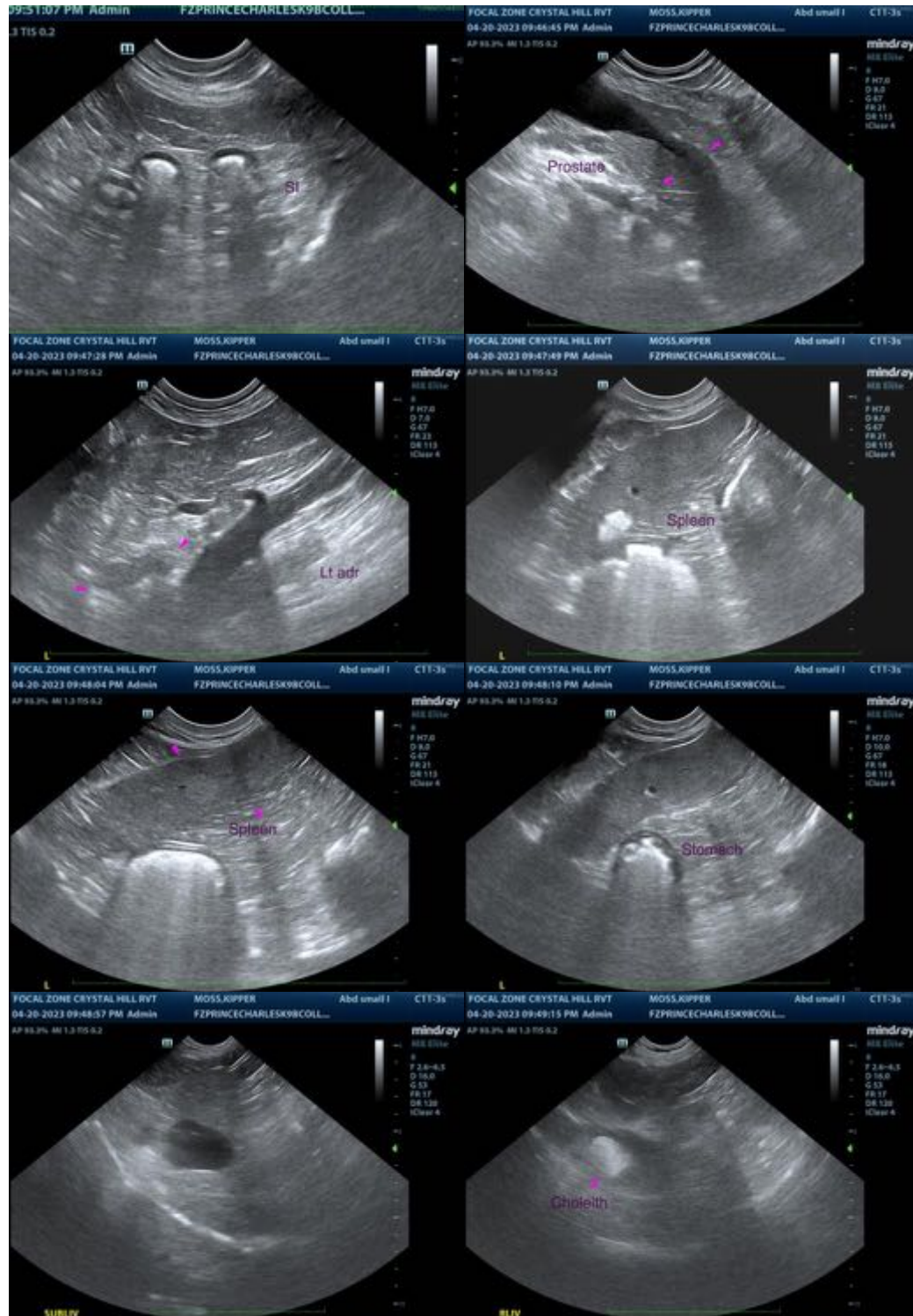
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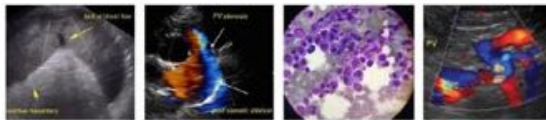
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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