



PATIENT

Yoko Hedrick

SPECIES

Canine

BREED

Mixed

SEX

Spayed Female

AGE

12 Years 11 Months

WEIGHT

75.4 lbs

INTERPRETED BY

Beth Johnson, DVM
 DACVIM

IMAGING PERFORMED BY

Kathleen Byrnes

HOSPITAL NAME

Chatham Veterinary
 Services

REFERRING VET

Dr. Scott

INVOICE

73950

DATE

3/24/26

PRESENTING CLINICAL SIGNS

P had xrays that revealed a possible splenic mass- rec US

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder is adequately distended with anechoic contents. No masses, inflammatory changes, echogenic sediment or cystoliths are observed. The urinary bladder, trigone and visible pelvic urethra are normal in thickness with a smooth mucosal surface.

The right kidney is normal is size (6.9 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.

The left kidney is normal is size (7.17 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.

Adrenal Glands

The right adrenal gland is enlarged, primarily at the cranial pole, with moderately heterogenous parenchymal changes in that area as a result of a primarily hyperechoic nodule/mass measuring 2.0 cm x 2.3 cm in size. The caudal pole is more normal in size and appearance, measuring 0.77 cm in size. Swollen capsular expansion is noted at the cranial pole without evident capsular escape or vascular invasion.

The left adrenal gland is normal in size (0.78 cm at cranial pole and 0.73 cm at caudal pole), shape and overall architecture, echogenicity and echotexture. A hyperechoic nodule is noted in the cranial pole. Nodule does not disrupt normal shape and/or architecture. Visible surrounding vasculature appears normal.

Spleen

Spleen is subjectively large in size with a mildly swollen but smooth capsule. Parenchyma is normal and homogenous in echogenicity and echotexture. There appears to be a subtle homogeneous, iso- to slightly hyperechoic "bulge" off the medial aspect of the spleen, potentially an emerging nodule or mass measuring 2.2 cm x 4.2 cm in size. Splenic vasculature appears normal.

Liver

The liver is subjectively normal in size with normal smooth curvilinear peripheral contour. Parenchyma is appropriately hypoechoic to the spleen in echogenicity and appropriately mildly coarse and homogenous in echotexture. No focal lesions are observed. Visible vasculature and biliary tree appear normal without distension or congestion.

Gallbladder is moderately distended with anechoic bile as well as suspended and gravity dependent echogenic debris. Some mineral/sand debris is suspected, and an approximately 4.2 cm in diameter suspect mineral shadowing but non-visibly obstructive density/possible large cholecystolith is suspected. The wall is smooth without visible thickening. There is no evidence of cystic or CBD dilation. There is no evidence of effusion or inflammation.



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Gastrointestinal

The visible stomach wall is normal in thickness and layering. The lumen of the stomach is mildly distended with a small to moderate amount of echogenic non-shadowing luminal contents and gas consistent with normal ingesta. There is no evidence of obstruction, foreign material or infiltrative disease. Pyloric outflow tract appears patent.

The visible small intestines are normal in wall thickness and layering. Small intestinal motility appears adequate (1-3 contractions per min). The lumen is mildly distended with echogenic non-shadowing luminal contents and gas consistent with normal ingesta/chyme. There is no evidence of obstruction, foreign material or infiltrative disease.

The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.

Pancreas

The pancreas that is observed appears appropriately isoechoic to surrounding omental fat. Visible capsule is smooth and normal in contour. Visible pancreatic parenchyma is homogenous and unremarkable. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.

Free Abdomen

There is no visible free peritoneal effusion noted in these images.

There is no apparent pathologic lymphadenopathy noted in these images.

Cardiac images are non-diagnostic owing to interfering artifact.

ULTRASONOGRAPHIC FINDINGS

- Splenomegaly- can be associated with congestion caused by sedation (if sedated) but can also be associated with diffuse infiltrative disease. Both benign conditions such as extramedullary hematopoiesis, lymphoid hyperplasia, as well as infiltrative neoplastic diseases such as round cell neoplasia should be considered. The medial bulge could represent the same differentials as what is causing the diffuse enlargement of the spleen, although focal neoplasia can't be ruled out without tissue sampling.
- Bilateral hyperechoic adrenal nodules involving the cranial poles of both adrenal glands - Differentials include primary adrenal cortical adenoma or adenocarcinoma, pheochromocytoma, myelolipoma, adrenal hyperplasia secondary to pituitary disease or metastatic disease. Ultrasound alone cannot differentiate between functional and non-functional nodules and/or between benign and malignant disease. Small nodules without other evidence of abdominal disease (to suggest metastatic disease) and/or clinical signs (to suggest adrenal disease) are most often incidental and should be monitored.
- Moderate gallbladder debris with suspected non-visible cholecystolith - Cholecystic debris is of unknown clinical significance. It can be seen with biliary stasis from fasting or illness. Cholecystic debris is not necessarily related to hepatobiliary disease. Echogenic bile is most commonly an incidental finding in dogs and should be interpreted in combination with clinical



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signs such as nausea, inappetence, cranial abdominal discomfort and/or laboratory changes such as increased ALP and/or increased Tbili.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The changes described above are non-specific and could all represent incidental or benign non-clinically active lesions, although further investigation may be warranted and should be determined primarily based on patient's clinical presentation combined with owner and attending clinician elections but could include:

Three view thoracic radiographs are recommended for further assessment of cardio-pulmonary status as well as to further evaluate for any evidence of metastatic disease, if not recently evaluated.

Fine needle aspirates of the spleen are recommended if patient's coagulation status is appropriate.

A blood pressure is recommended if not recently evaluated.

Hormone testing recommendations, given the adrenal gland changes, are largely dependent on patient's clinical history, etc.





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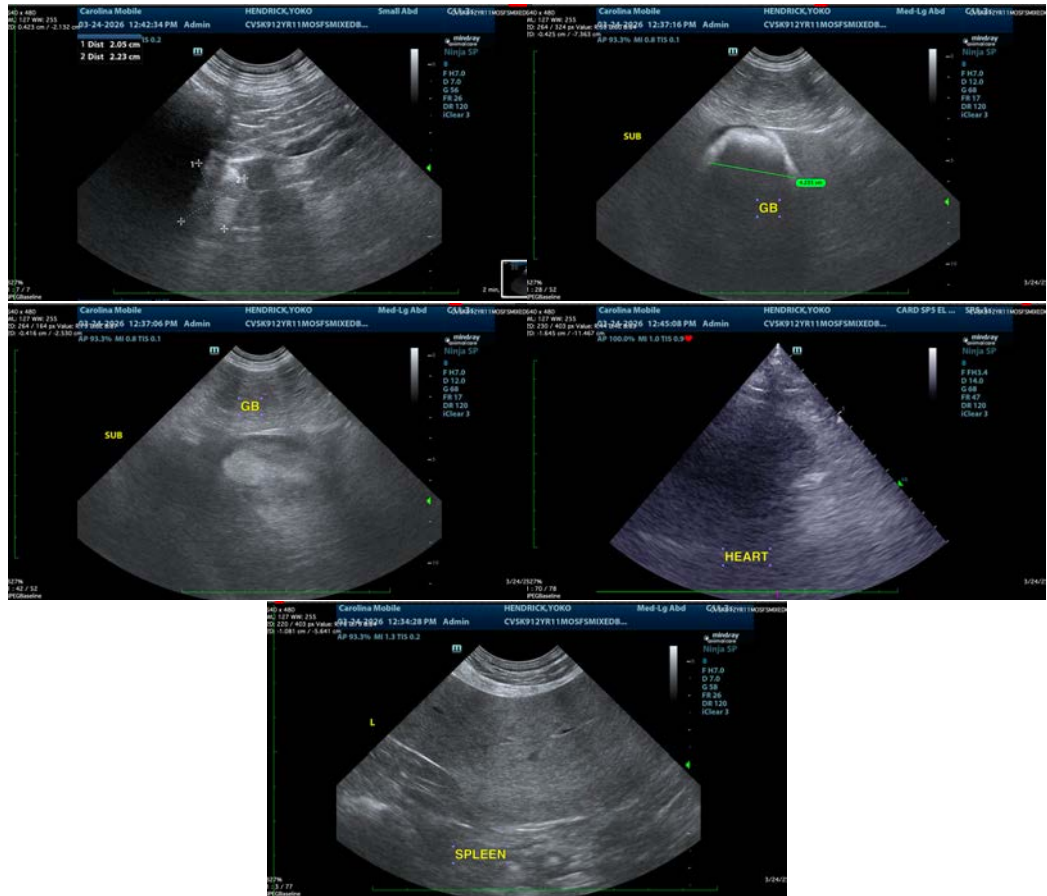
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Beth Johnson, DVM, DACVIM
 info@sonopath.com