



PATIENT PRESENTING CLINICAL SIGNS

Emma Helgesen Presented for back pain, reluctance to get up and a single episode of vomiting and unwilling to eat today. Palpated a large mass in her mid-abdomen. Hypothyroidism 9yrs well controlled on meds

SPECIES

Canine

A rounded soft tissue opaque mass in the mid ventral abdomen most likely represents a splenic mass. A soft tissue opaque fluid streaking is observed within the mild hemothorax and/or peritoneal inflammation. A small focal convex distortion of the caudal ventral liver margin is observed on the left lateral views concerning for a potential focal hepatic nodule that could be associated with benign or malignant disease.

BREED

Golden retriever

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

SEX

Female, spayed

Urinary System

The urinary bladder is mildly to moderately distended with anechoic urine. The wall in the region of the apex is mildly thickened up to 0.46 cm and irregular. The wall tapers to a normal thickness as it extends toward the cystourethral junction. No cystic calculi are observed. The region of the trigone and the proximal urethra, visible to a depth of 2-3 cm, are normal.

AGE

7/11/2011

The left kidney is normal size (7.75 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with mild loss of corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

WEIGHT

86.9 lbs.

The right kidney is normal size (7.46 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with mild loss of corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

INTERPRETED BY

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

Adrenal Glands

The left adrenal gland is normal size (0.73 cm at cranial pole) (0.62 cm at caudal pole) (2.71 cm in length); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

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The right adrenal gland is normal size (1.26 cm at cranial pole) (0.67 cm at caudal pole); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

HOSPITAL NAME

Flowerton AH

Spleen

A >9 cm irregular heterogeneous cavitated mass is arising from the parenchyma. The mesentery adjacent to the mass is hyperechoic. In the remainder of the spleen, the margins are curvilinear and the parenchyma is homogeneous. Splenic vasculature appears normal with no evidence of thrombosis.

REFERRING VET

Dr. Randinelli

Liver

The liver is subjectively normal in size with irregular peripheral contours at the caudal aspect. The parenchyma is hypoechoic relative to surrounding omental fat and diffusely mottled in appearance. An approximately 4-4.5 cm isoechoic mass effect is observed in the region of the right medial lobe. In addition, a few ill-defined hyperechoic to slightly heterogeneous nodules are seen, particularly on the right side. Vascular and biliary tracts are of normal volume with no evidence of congestion. The gall

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bladder lumen is moderately distended. The wall is normal in thickness. A moderate amount of aggregated echogenic partially dependent debris/sludge is observed within the lumen. The cystic and common bile ducts are normal/not seen.

SPECIES

Canine

Gastrointestinal

The gastric 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 layering pattern and appropriate mural detail. Discreet masses are not identified. The colonic wall is normal. No obstructive disease is noted.

BREED

Golden retriever

Pancreas

SEX

Female, spayed

A portion of the pancreas is obscured by the splenic mass. In the visualized portions, no obvious pathology is seen.

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Free Abdomen

A small amount of echogenic free fluid is observed. The abdominal lymph nodes are normal/not visible.

Other

WEIGHT

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A brief echocardiogram reveals no evidence of pericardial effusion or obvious right atrial/auricular mass.

ULTRASONOGRAPHIC FINDINGS

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Primary Findings:

- Large splenic mass. Neoplasia (i.e., hemangiosarcoma, hemangioma) is considered likely with a lower possibility of benign pathology.
- Regional peritonitis is present.
- The ascites may be secondary to hemorrhage, neoplastic effusion, other.
- The 4 cm mass as well as the smaller hepatic nodules may represent a metastatic lesions or a benign nodular hyperplasia.

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Secondary Findings:

- Mild bilateral, age-related renal changes.
- The urinary bladder wall changes could be consistent with cystitis or may be artifactual due to lack of full repletion. Correlation with the patient's urinalysis findings and clinical history is recommended.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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An abdominal exploratory with splenectomy and submission of the spleen can be considered. Biopsy of the liver nodules/mass are also recommended at the time of surgery. Before proceeding with surgery, however, the client should be warned of the potential for metastatic lesions in the liver.

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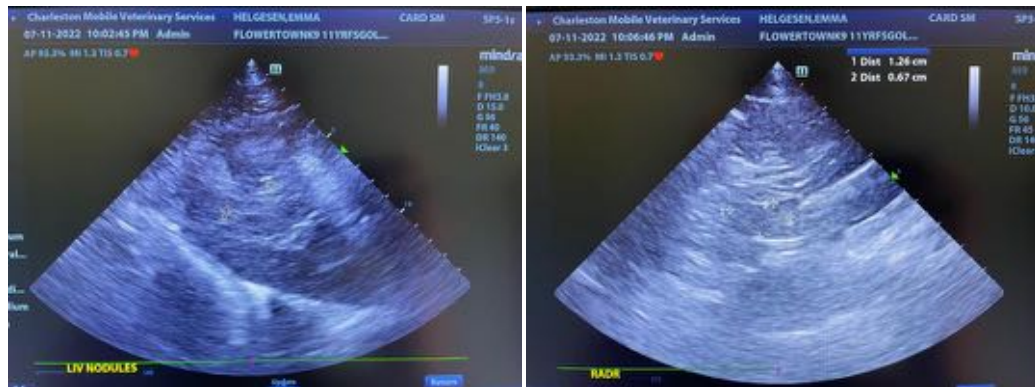
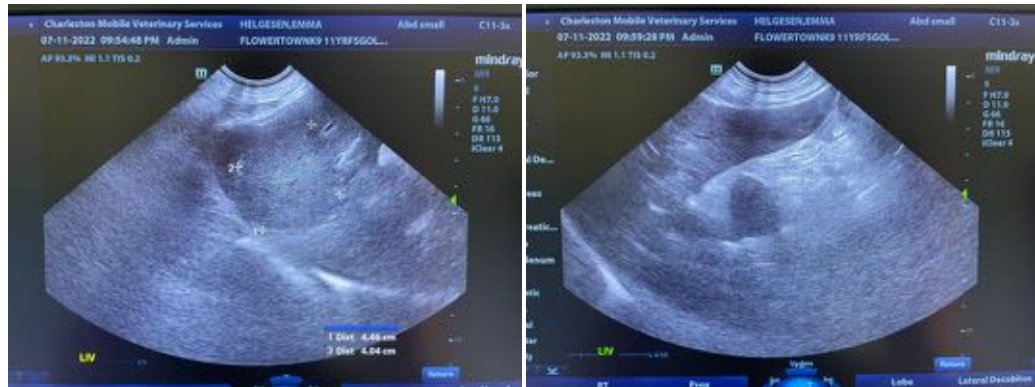
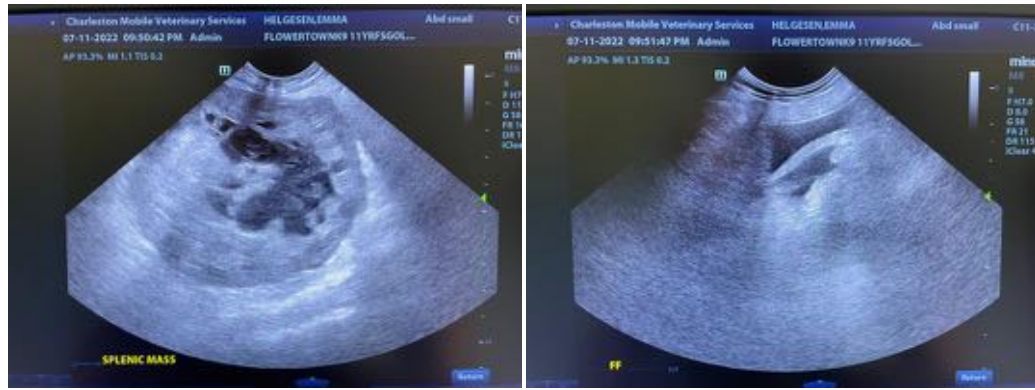
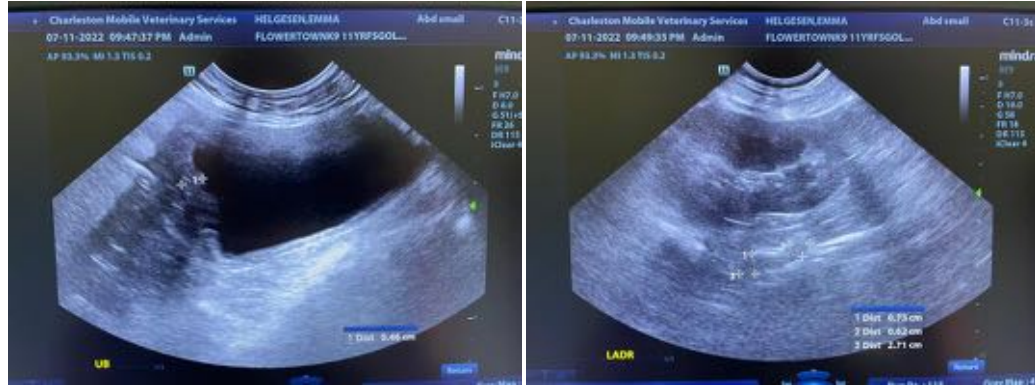
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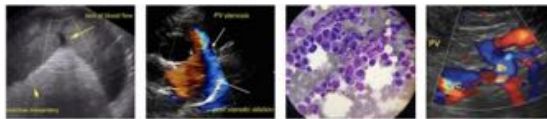
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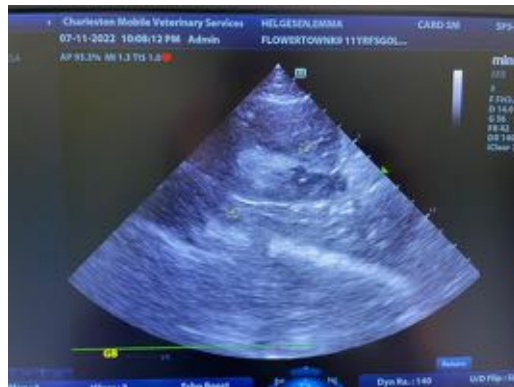
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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

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