

**PATIENT PRESENTING CLINICAL SIGNS**

Millie Calcutt History: Acute onset of vomiting, diarrhea and lateral recumbency

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

Canine

**Urinary System**

**BREED**

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 visible portion of the proximal urethra are normal.

Labradoodle

**SEX**

The left kidney is normal in size (6.20 cm in length) with a normal shape, architecture and smooth peripheral margins. The cortex is isoechoic relative to the spleen. There is a normal 1:3 cortex to medulla ratio with minimal loss of corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydronephrosis. Renal vasculature is normal.

Female Spayed

**AGE**

10 years

The right kidney is normal in size (6.21 cm in length) with a normal shape, architecture and smooth peripheral margins. The cortex is isoechoic relative to the spleen. There is a normal 1:3 cortex to medulla ratio with minimal loss of corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydronephrosis. Renal vasculature is normal.

**WEIGHT**

NP

**Adrenal Glands**

**INTERPRETED BY**

The left adrenal gland is normal in size (0.67 cm at cranial pole) (0.55 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.

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**IMAGING PERFORMED BY**

The right adrenal gland is enlarged (4.38 x 1.99 cm) and irregular, with a mass effect. The mass is extending into the caudal vena cava, creating a 3.79 x 1.38 cm tumor thrombus, which is partially obstructing blood flow. The mass is vascular in appearance. Surrounding mesentery is hyperechoic.

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**Spleen**

The spleen is enlarged with irregular peripheral contours. Three splenic masses are visualized. One mass is at the caudal pole (measuring 3.71 x 3.08 cm). The second mass is at the mid-body (measuring 2.93 x 2.66 cm). The third mass (measuring 2.49 x 1.18 cm) is at the cranial aspect. All masses are heterogenous with cavitated areas. These lesions also cause capsular expansion. The remaining splenic parenchyma is slightly mottled in appearance. Splenic vasculature is normal with no evidence of thrombosis.

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**Liver**

The liver is normal to slightly prominent in size with slightly irregular peripheral contours. The parenchyma is hypoechoic relative to the spleen. At least two heterogenous masses are seen in the left- to mid-liver (the largest measuring approximately 3.50 cm). The remaining hepatic parenchyma is mottled in appearance. Hepatic vasculature and intrahepatic biliary tracts are of normal volume with no evidence of congestion.

Chad Reynolds

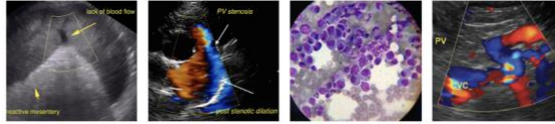
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The gall bladder lumen is moderately distended. The wall is thin and smooth. Luminal contents are mostly anechoic. The cystic and common bile ducts are normal/not seen.

**DATE**

8.24.23



**PATIENT** *Gastrointestinal*

Millie Calcutt 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 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.

**SPECIES**

Canine

**BREED** *Pancreas*

Labradoodle 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.

**SEX** *Free Abdomen*

Female Spayed The mesentery throughout the abdomen is hyperechoic. A 1.40 x 0.51 cm left medial iliac lymph node is visualized.

**AGE** *Other*

10 years A brief echocardiogram reveals a moderate- to severe amount of pericardial effusion. A 2.98 x 1.14 cm mass is observed in the right atrial/ventricular free wall.

**WEIGHT**

NP

**ULTRASONOGRAPHIC FINDINGS**

**Primary Findings**

- Splenic and hepatic masses. Neoplasia (i.e., hemangiosarcoma) is strongly suspected, with a subsequent, probable hemoabdomen.
- Right-sided heart mass with pericardial effusion. Again, hemangiosarcoma is the top differential.
- Right adrenal mass with invasion into the caudal vena cava. Neoplasia (i.e., adenocarcinoma, pheochromocytoma) is strongly suspected.

**Secondary Findings**

- The pancreatic changes are most consistent with age-related parenchymal remodeling, potentially secondary to a prior inflammatory episode, early fibrosis or chronic pancreatitis.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

- Due to the likelihood of metastatic neoplasia, palliative care or humane euthanasia is recommended, in lieu of invasive diagnostics and treatments.

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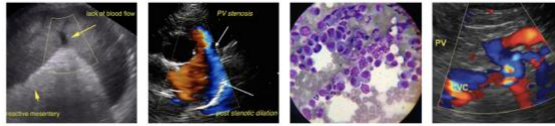
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Millie Calcutt

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**BREED**

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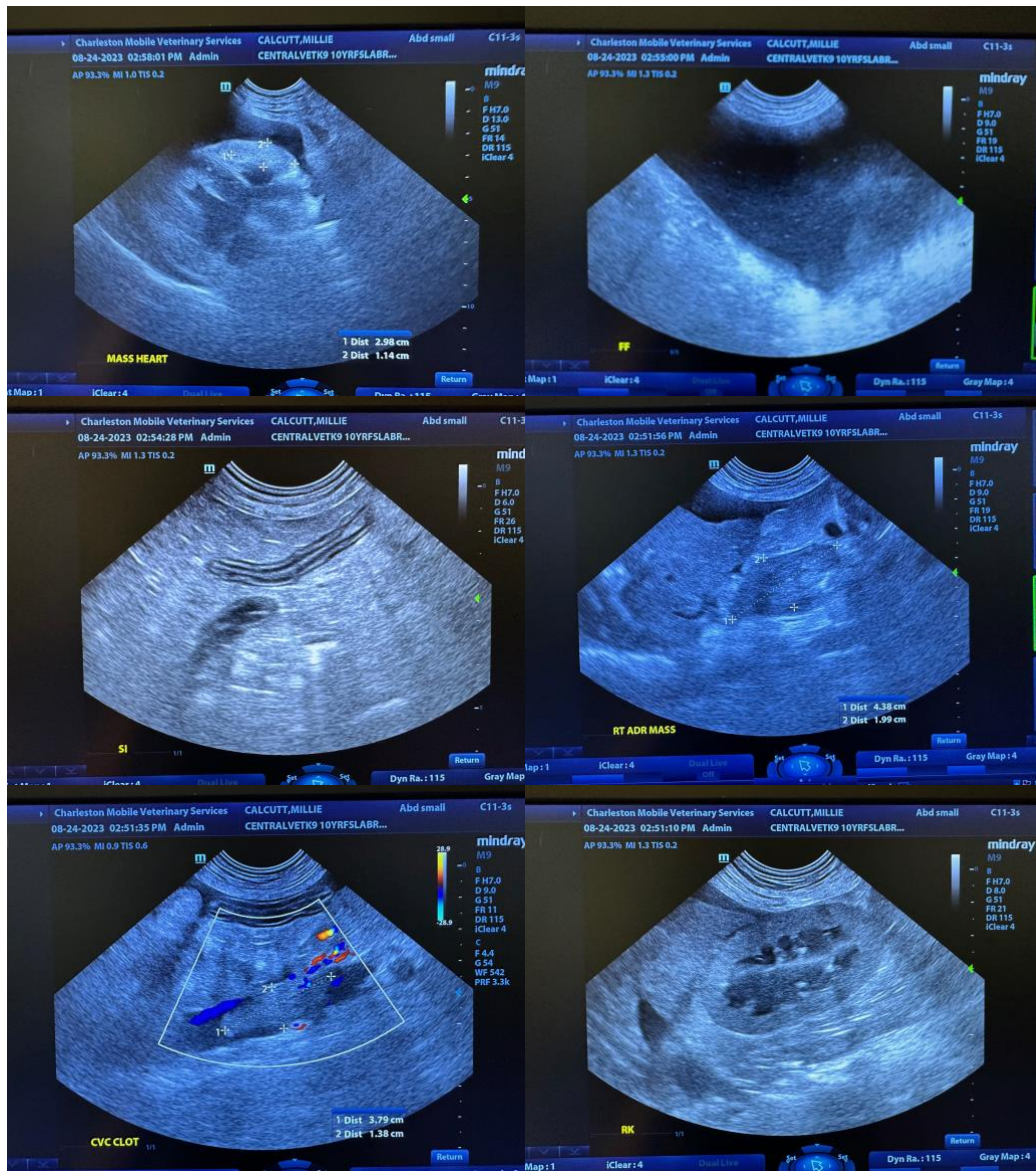
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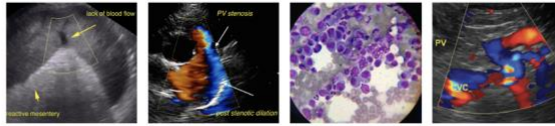
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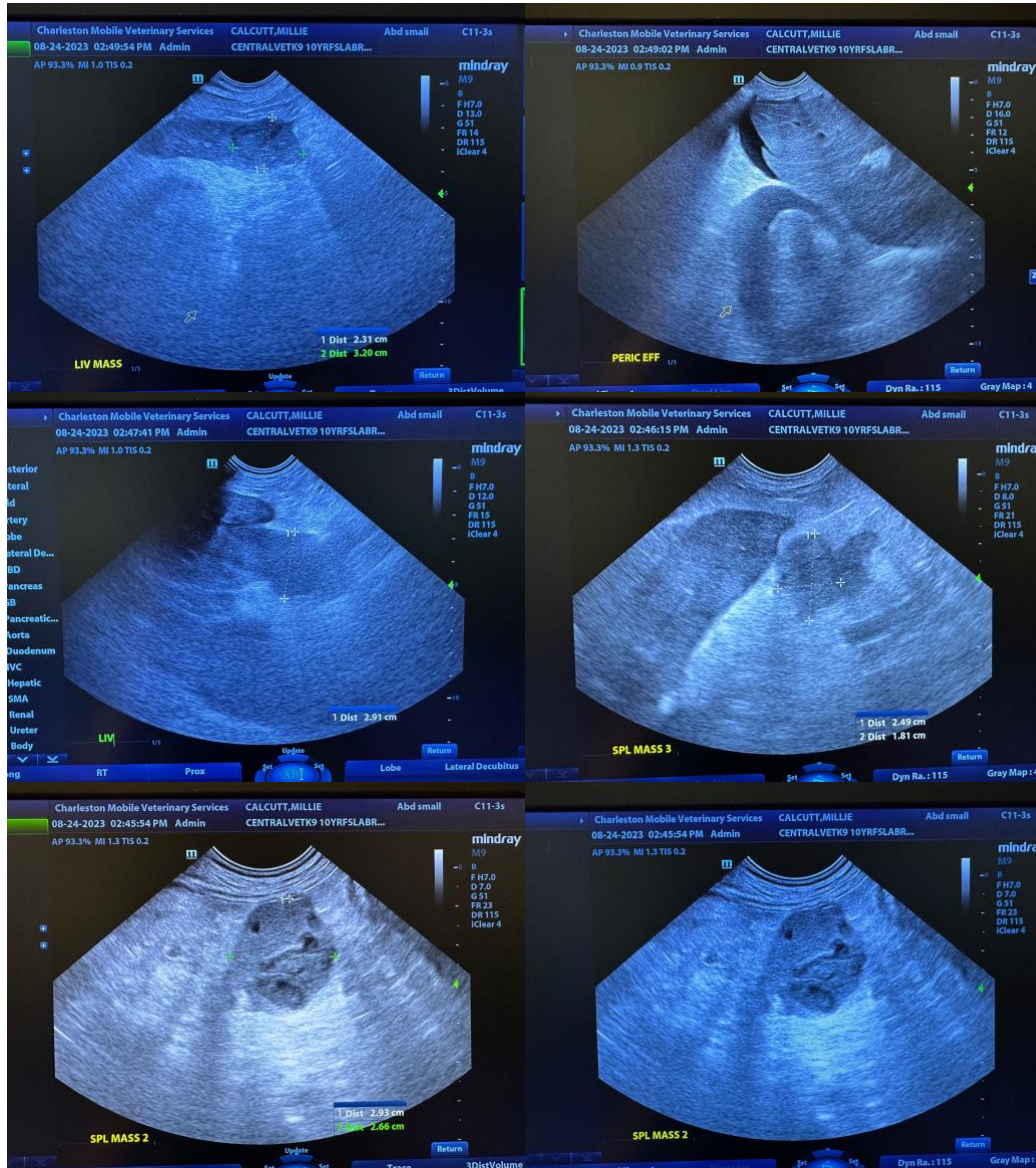
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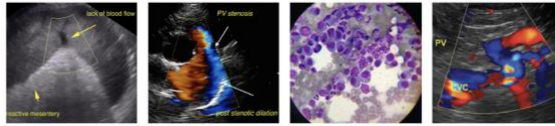
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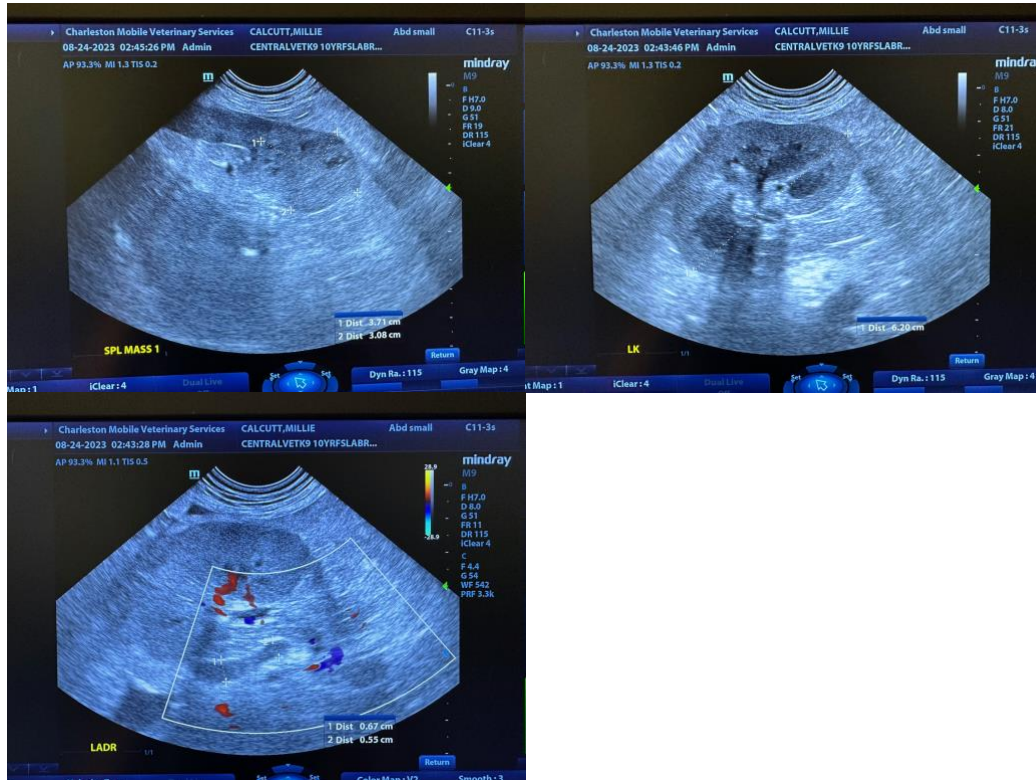
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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