



PATIENT PRESENTING CLINICAL SIGNS

Ruby Horner Pt has mammary masses and is intact female. Concern for mammary neoplasia. AUS as met check prior to surgery.
SPECIES Grade 2/6 left sided cardiac murmur.
Canine Thoracic radiographs were normal.

BREED ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Maltese *Urinary System*

SEX 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.
Female, intact

AGE The left kidney is normal in size (3.70 cm in length) with a normal shape, smooth peripheral margins and normal internal architecture. There is moderate loss of corticomedullary distinction. A 1.63 cm septated cyst is observed at the craniomedial aspect. Several hyperechoic shadowing diverticular foci are observed. There is no evidence of pyelectasia, infarcts or hydronephrosis. Renal vasculature is normal.
7/9/2012

WEIGHT The right kidney is normal in size (3.52 cm in length) with a normal shape, smooth peripheral margins and normal internal architecture. There is moderate loss of corticomedullary distinction. Several hyperechoic shadowing diverticular foci are observed. There is no evidence of pyelectasia, infarcts or hydronephrosis. Renal vasculature is normal.
6.2 lbs.

INTERPRETED BY

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

Adrenal Glands

The left adrenal gland is normal size (0.37 cm at cranial pole) (0.40 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.

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The right adrenal gland is normal size (0.67 cm at cranial pole) (0.43 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

Flowertown AH

Spleen

The spleen is normal in size (0.86 cm in width at the level of the hilus) with a normal capsular contour. There is appropriate echogenicity and echotexture. No focal lesions are observed. Splenic vasculature is normal.

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Liver

The liver is subjectively prominent in size with normal curvilinear peripheral contours. The parenchyma is isoechoic to slightly hypoechoic relative to the spleen. A 0.59 cm cyst is observed in the right lateral lobe. The remaining parenchyma is homogeneous. Vascular and biliary tracts are of normal volume with no evidence of congestion. The portal vein to caudal vena cava ratio is approximately 1:1. The gall bladder lumen is distended. The wall is thin and smooth. Luminal contents are anechoic. The cystic and

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PATIENT common bile ducts are normal/not seen.

Ruby Horner ***Gastrointestinal***

SPECIES The stomach and intestine are free of stasis and exhibit normal peristaltic activity. The gastric lumen is mildly to moderately distended with ingesta. 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 segmentally distended with chyme. 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.

Canine

BREED

Maltese

Pancreas

SEX

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.

Female, intact

Free Abdomen

AGE

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

7/9/2012

WEIGHT

Other

6.2 lbs.

The ovaries are subjectively normal in size (left 1.14 x 0.50 cm; right 0.86 x 0.54). No obvious pathology is observed.

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The uterus is diffusely dilated with anechoic fluid. Left uterine horn measured 0.82 cm; right uterine horn measured 1.07 cm; uterine body measured 1.10 cm. The uterine wall is normal in thickness with a normal layering pattern.

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(*Small Animal Internal
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A brief echocardiogram reveals no evidence of pericardial effusion or obvious right atrial/auricular mass.

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ULTRASONOGRAPHIC FINDINGS

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

Primary Findings:

- The uterine changes could be consistent with hydrometra and mucometra or pyometra. Correlation with the patient's clinical history is recommended.

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Secondary Findings:

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- Bilateral chronic nephropathy with dystrophic mineralization and a left cortical cyst.

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- The hepatic parenchymal changes are non-specific and are most consistent with a benign hepatopathy (i.e., vacuolar hepatopathy, age-related remodeling and/or microscopic regenerative nodular hyperplasia). Correlation with the patient's liver values is recommended. Right hepatic cyst, likely benign and incidental with a low possibility of an emerging vascular tumor.

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*There is no obvious evidence of metastatic disease in the abdomen.

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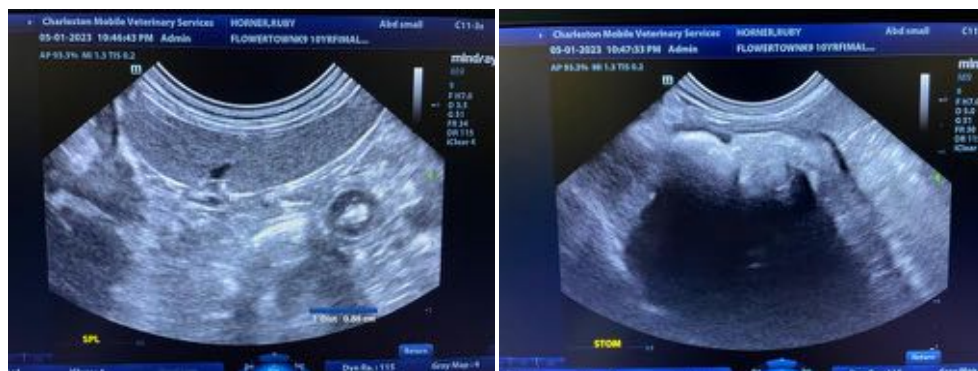
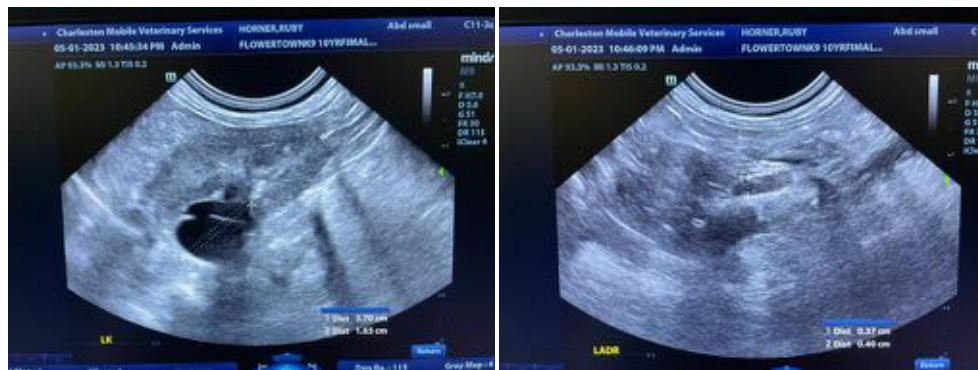
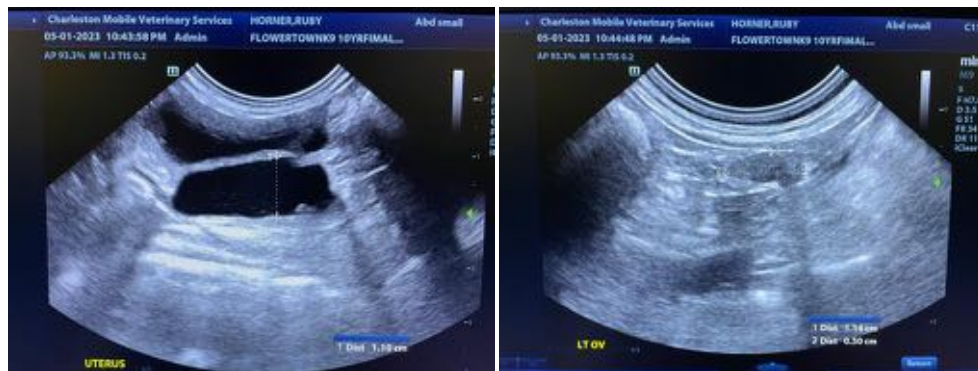
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

- Given the uterine changes, consider a vaginal cytology to assess for pyometra.
- When the patient undergoes surgery for mammary mass removal, an ovariohysterectomy should also be performed.





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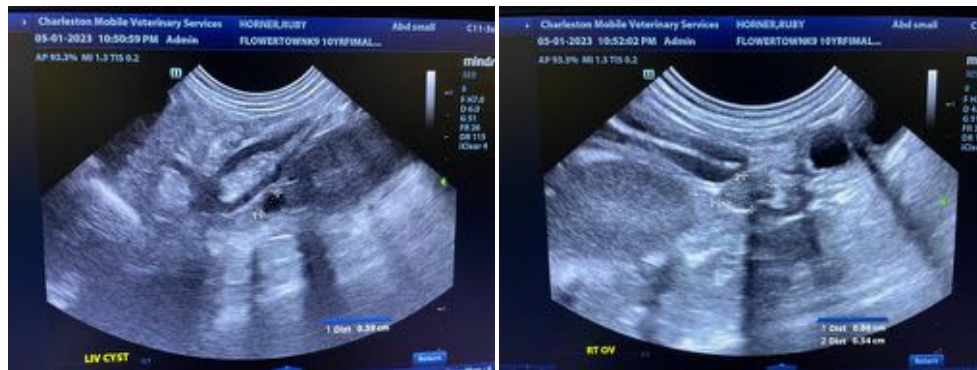
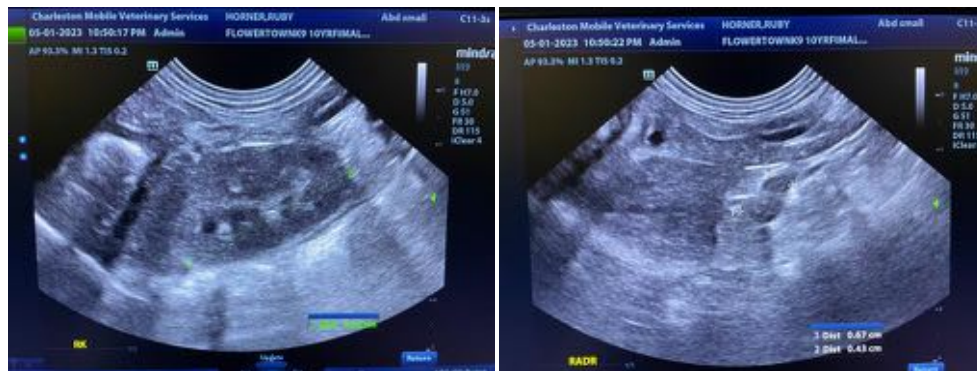
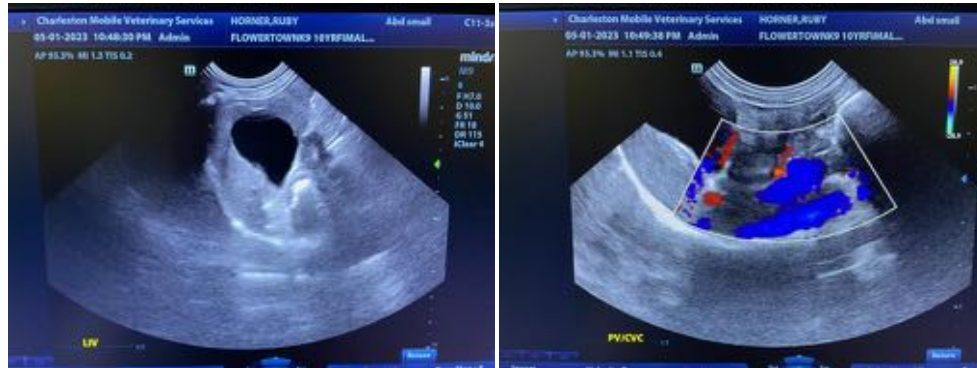
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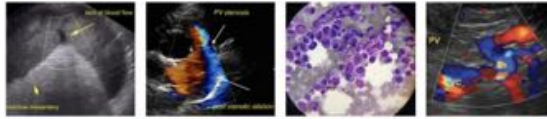
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible



PATIENT in the image/video clips provided.

Ruby Horner 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.

SPECIES

Canine Andrea Nicastro, MPH, DVM, Diplomate DACVIM (Small Animal Internal Medicine)
info@SonoPath.com

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