

**PATIENT PRESENTING CLINICAL SIGNS**

Ella Bella Hawk History: Hx of mammary adenocarcinoma, anorexic, mass seen in cranial abdomen on rads. Abnormal PE/Chem/CBC/UA Results: Elevated liver and pancreatic enzymes.

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

Canine **Urinary System**

The urinary bladder, trigone, and pelvic urethra are normal in thickness and the mucosal surface is smooth. The bladder lumen is moderately distended with anechoic urine. No masses, inflammatory changes or calculi are observed. Ureteral papillae and visualized portion of the proximal urethra, visible to a depth of 2.0 cm, are normal.

**BREED**

Shih Tzu

The left kidney presented normal size (3.90 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with minimal to mild loss of corticomedullary distinction. A hyperechoic medullary band is observed adjacent to the corticomedullary junction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

**SEX**

Spayed Female

**AGE**

10 Years

The right kidney presented normal size (3.91 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with minimal to mild loss of corticomedullary distinction. A hyperechoic medullary band is observed adjacent to the corticomedullary junction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

**WEIGHT**

9.44 Pounds

**Adrenal Glands**

The left adrenal gland is normal size (0.57 cm at cranial pole) (0.50 cm at caudal pole) (1.49 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.

**INTERPRETED BY**

Andrea Nicastro, DMV,  
Diplomate DACVIM  
(Small Animal  
Internal Medicine)

The right adrenal gland is normal size (0.51 cm at cranial pole) (0.40 cm at caudal pole) (1.97 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.

**HOSPITAL NAME**

ACC Flanders

**Spleen**

A 1.64 cm x 1.46 cm round heterogenous mass is observed at the mid to caudal aspect. The mass causes capsular expansion. In the remainder of the spleen, the peripheral contours are curvilinear, and the parenchyma is homogenous. Splenic vasculature appears normal with no evidence of thrombosis.

**REFERRING VET**

Dr. Hallihan

**Liver**

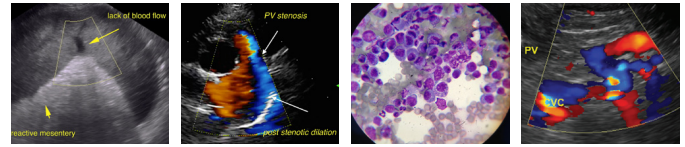
The liver is subjectively enlarged in size with irregular peripheral contours. The parenchyma is isoechoic relative to the spleen. Multiple isoechoic coalescing masses are observed throughout the organ. Several of which cause capsular expansion. Hepatic vasculature and intrahepatic biliary tracts are of normal volume with no evidence of congestion. The gall bladder lumen is moderately distended. The wall is thin and smooth. A small to moderate amount of adhered debris is observed within the lumen. The cystic and common bile ducts are normal/not seen.

**INVOICE NUMBER**

13366

**DATE**

9/30/21



**PATIENT**

Ella Bella Hawk The gall bladder lumen is moderately distended. The wall is thin and smooth. Luminal contents are anechoic. The cystic and common bile ducts are normal.

**Gastrointestinal**

**SPECIES**

Canine The stomach and intestine are free of stasis and exhibit normal peristaltic activity. The gastric lumen is not distended. The gastric wall is subjectively thickened with suspected retention of the normal layering pattern. There is a segment of what appears to be small intestine that is thickened up to 0.51 cm with a loss of the normal layering pattern. The remaining small intestinal segments are normal in thickness with a normal layering pattern and appropriate mural detail. The colonic wall is normal.

**BREED**

Shih Tzu

**Pancreas**

See other category.

**SEX**

**Free Abdomen**

Spayed Female

There is no evidence of free fluid. Several enlarged irregular hypoechoic lymph nodes are observed throughout the abdomen.

**AGE**

**Other**

10 Years

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

**WEIGHT**

A 4.09 cm x 2.68 cm irregular echogenic mass is observed caudal to the stomach.

9.44 Pounds

**ULTRASONOGRAPHIC FINDINGS**

**Primary Findings**

- Multiple hepatic masses- neoplasia (i.e., round cell tumor, adenocarcinoma) is considered likely with a lower possibility of benign pathology
- Splenic mass. Again, neoplasia is considered likely.
- The origin of the mass caudal to the stomach is unclear. It may be arising from liver, pancreas, lymph node, mesentery, other. Neoplasia is the most likely diagnosis
- Possible small intestinal mass effect, although this was difficult to discern from other abdominal pathology in the region.

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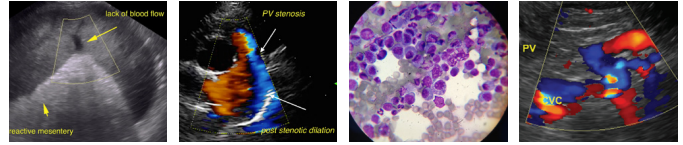
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**Secondary Findings**

- Bilateral age-related renal changes



**PATIENT**

Ella Bella Hawk

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

- Three-view thoracic radiographs are recommended to assess for pulmonary metastases.

**SPECIES**

Canine

- Fine needle aspirates of the liver and splenic masses can be considered if clotting status is appropriate, 25-gauge needle should be used. However, given the likelihood of metastatic disease within the abdomen, the prognosis for this patient is considered guarded.

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**SEX**

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**AGE**

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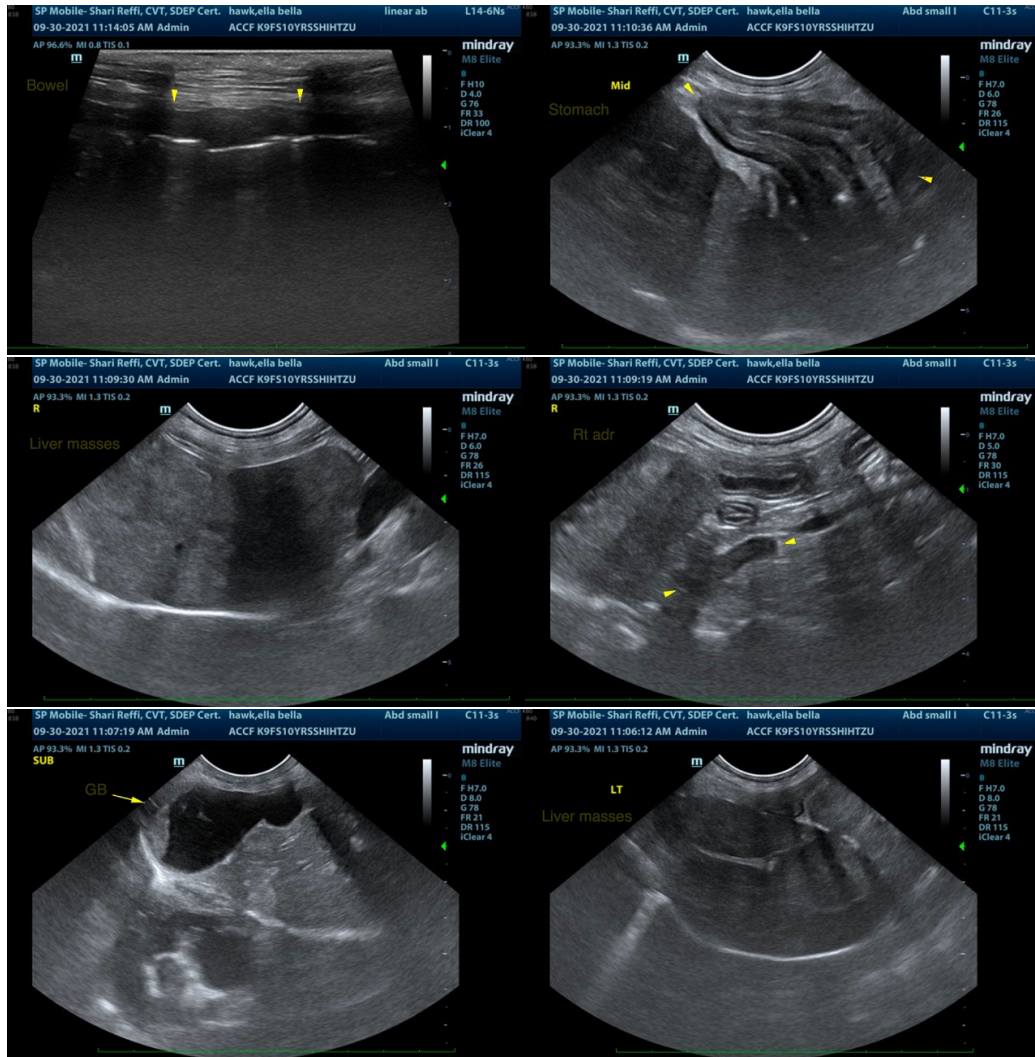
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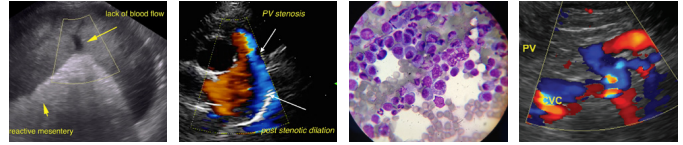
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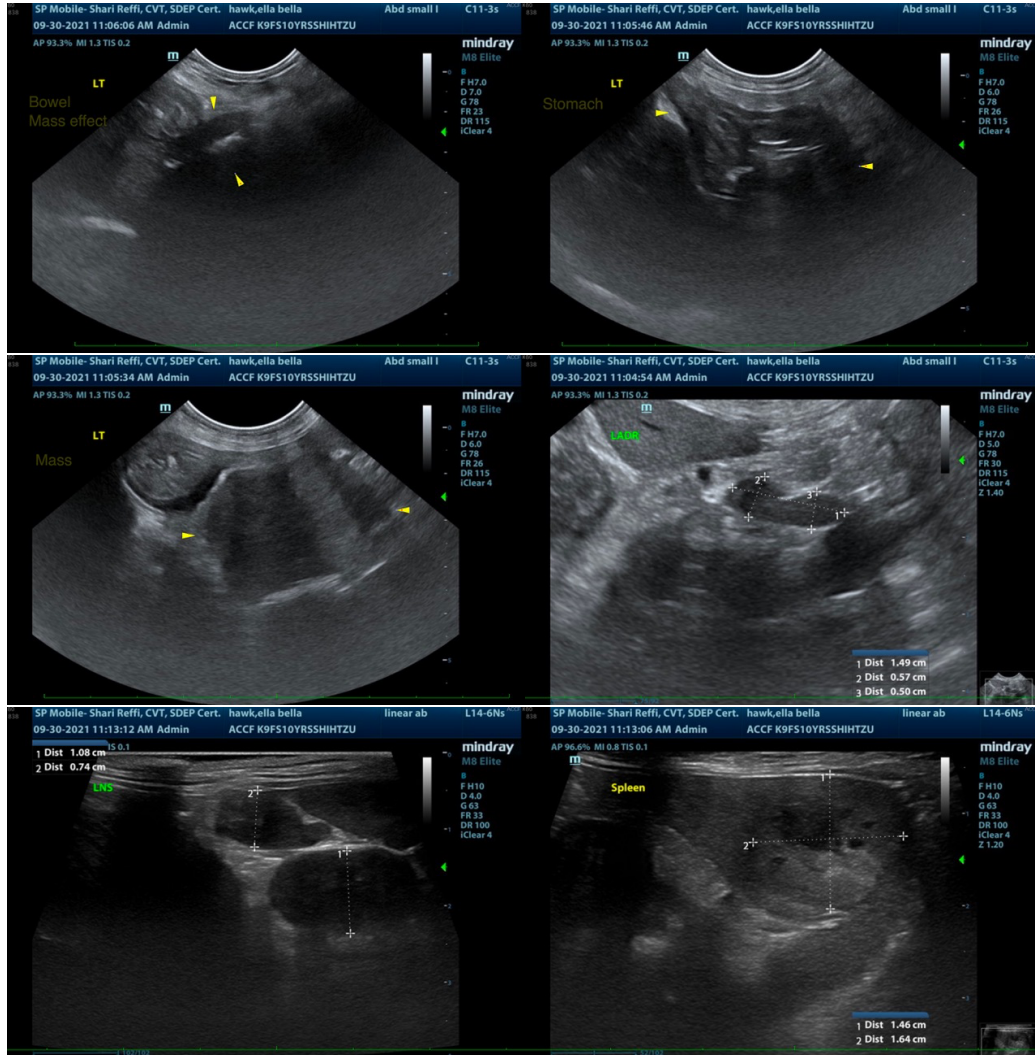
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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