



**PATIENT**

Bailey Cummings

**SPECIES**

Canine

**BREED**

Shepherd Mix

**SEX**

Neutered male

**AGE**

12 years

**WEIGHT**

105 lbs

**INTERPRETED BY**

Kathleen Sennello  
DVM, MS, Diplomate  
ACVIM (Small Animal  
Internal Medicine)

**IMAGING PERFORMED BY**

Dr. Scott

**HOSPITAL NAME**

HoHoKus VH

**REFERRING VET**

Dr. Eisenberg

**INVOICE**

91761

**DATE**

9/10/21

**PRESENTING CLINICAL SIGNS**

History: Several ay history of decreased appetite, vomiting, lethargy. Sensitive on abdominal palpation, dehydrated Chest rads- small cardiac silhouette Abd rads- unremarkable chew in house WNL, PCV 65 yesterday, positive spec cpl

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The urinary bladder is moderately distended with anechoic urine. The Bladder wall, trigone, ureteral papillae and visible urethra (to a depth of 2cm) appear normal with no evidence of wall thickening, mucosal irregularities, masses or cystic calculi.

The prostate is normal in size (1.3 cm) and shape for this neutered male dog. The parenchyma is homogenous and the external margins are smooth. The prostatic urethra appears normal with no evidence of irregularity, invasion, mass effect or calculi.

The left kidney has a normal shape and size (6.2 cm). Overall echogenicity is slightly hyperechoic with poor corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

The right kidney is not imaged.

**Adrenal Glands**

The region of left adrenal (Cranial to left renal artery) is unremarkable but the adrenal is not distinctly visualized. No evidence of a mass effect.

The region of the right adrenal (between right cranial kidney and vena cava) is unremarkable, but the adrenal is not distinctly visualized. No evidence of a mass effect.

**Spleen**

The spleen is subjectively large in size and irregular. The spleen echotexture is heterogenous and mottled, the splenic capsule is smooth with no irregularities. The blood flow through the hilus and splenic parenchyma appears normal. There are numerous, regular, hypoechoic cavitated appearing masses in the spleen (at least 3) measuring 1.0 cm, 1.3 cm and 1.6 cm. In addition to a mineralized, irregular mass effect towards the tail of the spleen and measured 1.8 x 1.11 cm.

**Liver**

The liver is heterogenous, irregular and hypoechoic. The visible portions of the vasculature and biliary tract appear normal. There are numerous, focal lesions observed. The mottling is severe and creates the impression of numerous, hypoechoic nodules measuring 0.5-1.5 cm. Additionally there is a large, ill-defined, mineralized mass effect (similar to what was seen in the spleen) and measured 4.2 x 6.1 cm. The gallbladder lumen is moderately distended. The wall of the gall bladder is not thickened and has a



|  |   |
|--|---|
| <b>PATIENT</b>   | smooth mucosal surface. Luminal contents are primarily anechoic. The cystic and common bile ducts are normal/not visible.   |
| Bailey Cummings  |   |
| <b>SPECIES</b>   | <b>Gastrointestinal</b>   |
| Canine   | The stomach contains minimal luminal contents. It measures at a normal thickness of <0.7cm with some variability due to the presence of rugal folds. The distinction of the gastric wall layers is adequate and there is no impression of reduced peristaltic activity. No masses or focal lesions were observed.   |
| <b>BREED</b>   |   |
| Shepherd Mix   | The visualized areas of duodenum, jejunum and ileum have a relatively uniform diameter with minimal fluid distension. Wall thickness is normal. Bowel loops follow a curvilinear path with distinct wall layering maintaining the typical 1:3 muscularis:mucosa layer ratio. The duodenum measured as normal (between 0.3-0.5cm in wall thickness) and the jejunum measured as normal (between 0.2-0.47cm.)   |
| <b>SEX</b>   | Visualized peristalsis appears appropriate. There were no focal lesions consistent with obstruction or a mass effect observed.  |
| Neutered male  |   |
| <b>AGE</b>   | The ileocecal junction was visualized and exhibited normal intact wall layering and is subjectively of normal thickness. Sections of colon are visualized with formed fecal material and gas shadowing distally. There is no observed focal or generalized colon wall thickening or loss of layering.   |
| 12 years   |   |
| <b>WEIGHT</b>  | <b>Pancreas</b>   |
| 105 lbs  | The region pancreas is normal and isoechoic to surrounding mesentery. There is no evidence of nodules or cystic lesions. There is no evidence of regional mesenteric inflammation or fluid.   |
| <b>INTERPRETED BY</b>  | <b>Free Abdomen</b>   |
| Kathleen Sennello<br>DVM, MS, Diplomate<br>ACVIM (Small Animal<br>Internal Medicine) | There is a large volume of echogenic free fluid that is most consistent with hemorrhage. I recommend sampling this. There is moderate lymphadenopathy present with a lymph node measuring 1.8 cm. The omentum is generally of increased echogenicity particularly in the cranial abdomen.   |
| <b>IMAGING PERFORMED BY</b>  | <b>Heart</b>  |
| Dr. Scott  | A brief view of the heart was submitted with no large volume or pericardial effusion.   |
| <b>HOSPITAL NAME</b>   | <b>ULTRASONOGRAPHIC FINDINGS</b>  |
| HoHoKus VH   | <b>PRIMARY FINDINGS:</b>  |
| <b>REFERRING VET</b>   | <ul style="list-style-type: none"> <li>Large, irregular, mottled spleen with multiple mass effects. Some of these masses almost have the appearance of collapsed, hypoechoic masses/nodules. One the masses is irregular and mineralized.</li> <li>Irregular, heterogenous liver with ill-defined, mineralized mass effect. The diffuse hepatic changes are non-specific and could be consistent with vacuolar hepatopathy, nodular hyperplasia, inflammatory/immune-mediated disease, fibrosis, extramedullary hematopoiesis, toxic hepatopathy (e.g., copper), infiltrative neoplasia (less likely) or other hepatopathy. This mass is concerning as it has a similar mineralized appearance as one of the masses in the spleen.</li> </ul> |
| <b>INVOICE</b>   |   |
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Bailey Cummings

- Large volume of echogenic free fluid in the abdomen. I am concerned that this could represent hemorrhage. I recommend sampling.
- Moderate mesenteric lymphadenopathy.

**SPECIES**

Canine

**SECONDARY FINDINGS:**

**BREED**

Shepherd Mix

- Decreased corticomedullary distinction in both kidneys. The bilateral renal findings are consistent with age-related change.

**SEX**

Neutered male

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**AGE**

12 years

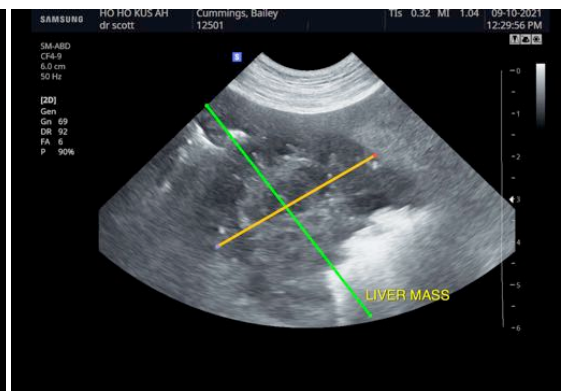
I am concerned this is a hemoabdomen with suspected ruptured masses from the spleen, but additionally the liver appears very irregular with mass like lesions. These could be benign or malignant and only biopsy will determine this. I recommend three view thoracic radiographs, ECG and stabilization. If this is a hemoabdomen then emergency surgery to remove the spleen for diagnostic and therapeutic purposes is recommended. Additionally, if a resectable liver mass is identified then I recommend removal with biopsy. Otherwise, I recommend biopsy. I cannot exclude the possibility that the hemorrhage is coming from one of the liver masses.

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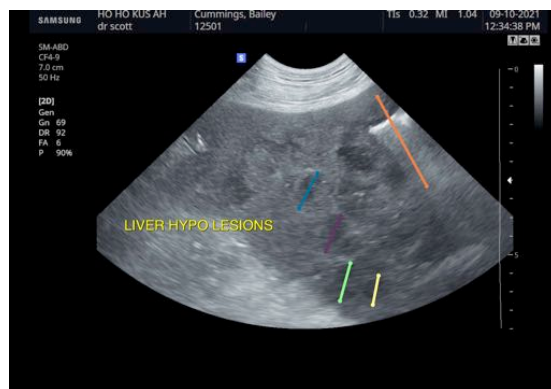


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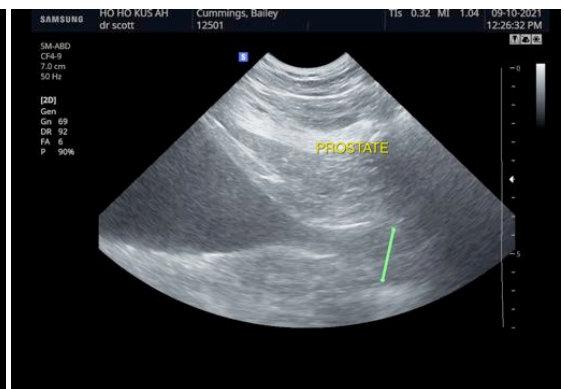
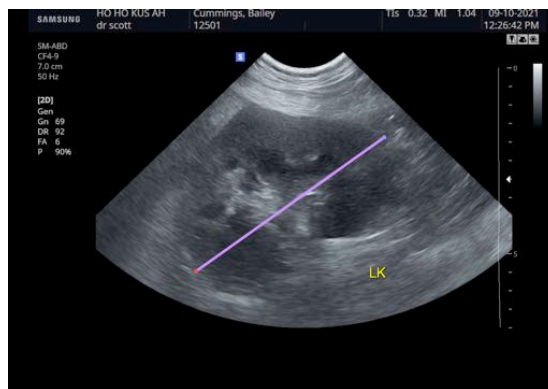
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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Canine

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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Shepherd Mix

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kathleen.sennello@sonopath.com

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