



**PATIENT PRESENTING CLINICAL SIGNS**

Fuse Longhoff Went to ER for being non-ambulatory - other wise ADR. Found splenic mass while presented at ER.  
35

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

Canine **Urinary System**

Urinary bladder is moderately distended with anechoic contents. No masses, inflammatory changes, echogenic sediment or cystoliths are observed. The urinary bladder, trigone and visible pelvic urethra are normal in thickness with a smooth mucosal surface.

**BREED**

Border Collie The prostate is not able to be visualized in these images. There is no evident pathology near the neck of the bladder.

**SEX**

Male

Right kidney is normal in size (5.9 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.

**AGE**

7 Years

Left kidney is normal in size (5.9 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.

**Adrenal Glands**

Right adrenal gland is unable to be visualized in these images. However, no pathology is present in the region of the right adrenal gland.

**WEIGHT**

37 Pounds

Left adrenal gland is normal in size (2.0 cm long x 0.41 cm at the cranial pole and 0.55 at the caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

**INTERPRETED BY**

Beth Johnson, DVM  
DACVIM

**Spleen**

Spleen is subjectively normal in size with a normal smooth capsular contour. Parenchyma is appropriately finely textured and homogenous with normal echogenicity relative to surrounding tissue (hyperechoic to liver). Multifocal heterogeneous, hypoechoic, cavitated masses/nodules are present, the largest measuring 2.5 cm x 3.5 cm near the tail of the spleen. The others measure around 1.0 cm in the body and head of the spleen. None are capsule disrupting. Splenic vasculature appears normal.

**HOSPITAL NAME**

Magnolia Springs VC

**Liver**

Liver is subjectively normal in size with normal smooth curvilinear peripheral contour. Parenchyma is appropriately hypoechoic to the spleen in echogenicity and appropriately mildly coarse and homogenous in echotexture. A focal 2.5 cm round, heterogeneous, hypoechoic, cavitated mass is noted in the left ventral liver, similar in appearance to the masses in the spleen. Visible vasculature and biliary tree appear normal without distension or congestion.

**REFERRING VET**

Dr Melissa Gallick

**INVOICE NUMBER**

34159

The gallbladder is moderately distended with anechoic bile and gravity dependent echogenic sediment. The wall is smooth without visible thickening. There is no evidence of cystic or CBD dilation. There is no evidence of effusion or inflammation.

**DATE**

1/12/22



**PATIENT** *Gastrointestinal*

Fuse Longhoff

The stomach wall is normal in thickness (canine < 0.5 cm and feline < 0.4 cm) and layering. The lumen of the stomach is mildly distended with very echogenic reverberation artifact from intraluminal gas. There is no evidence of obstruction, foreign material or infiltrative disease; however, complete visualization of far wall is partially inhibited by gas. Pyloric outflow tract appears patent.

**SPECIES**

Canine

The visible small intestines are normal in wall thickness and layering (canine duodenum < 0.5 cm and feline duodenum < 0.4 cm; other < 0.3 cm). Small intestinal motility appears adequate (1-3 contractions per min). The lumen of the small intestine is empty with no evidence of obstruction, foreign material or infiltrative disease.

**BREED**

Border Collie

The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.

**Pancreas**

**SEX**

Male

Pancreatic parenchyma is appropriately isoechoic to surrounding tissue. Visible capsule is smooth and normal in contour. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.

**Free Abdomen**

**AGE**

7 Years

There is no evidence of peritoneal effusion. There is no apparent lymphadenopathy.

**ULTRASONOGRAPHIC FINDINGS**

**WEIGHT**

37 Pounds

- Heterogeneous splenic mass – Ultrasound appearance alone cannot differentiate benign versus malignant splenic disease. However, these masses are concerning for infiltrative neoplasia given their multifocal nature as well as similar appearing masses in the spleen. Sarcoma such as hemangiosarcoma, round cell neoplasia, etc. are all differentials. Benign hematomas, extramedullary hematopoiesis, or nodular hyperplasia are also possible, but considered much less likely.

**INTERPRETED BY**

Beth Johnson, DVM  
DACVIM

- Heterogeneous liver mass – Differentials include infiltrative neoplasia such as malignant sarcoma versus infiltrative round cell neoplasia versus other given the multi-organ involvement.
- Gallbladder debris - Cholecystic debris is of unknown clinical significance. It can be seen with biliary stasis from fasting or illness. Cholecystic debris is not necessarily related to hepatobiliary disease. Echogenic bile is most commonly an incidental finding in dogs and should be interpreted in combination with clinical signs such as nausea, inappetence, cranial abdominal discomfort and/or laboratory changes such as increased ALP and/or increased Tbili.

**HOSPITAL NAME**

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**REFERRING VET**

Dr Melissa Gallick

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

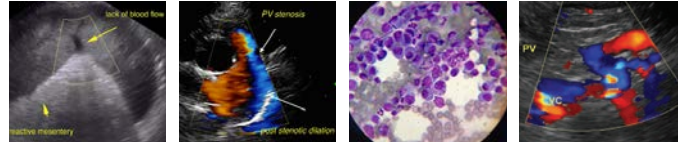
Recommendations include 3-view thoracic radiographs (if not already performed) to evaluate cardiopulmonary status as well as to further assess any possible metastatic disease. Additional recommendations include a fine needle aspirate of the liver and spleen if patient's coagulation status is appropriate.

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**PATIENT**

Fuse Longhoff

**SPECIES**

Canine

**BREED**

Border Collie

**SEX**

Male

**AGE**

7 Years

**WEIGHT**

37 Pounds

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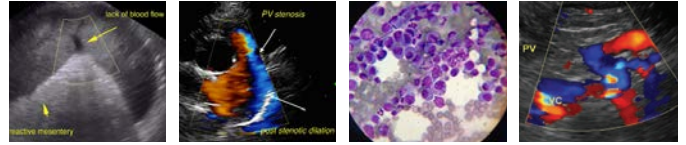
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**PATIENT**

Fuse Longhoff

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.

**SPECIES**

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.

**BREED**

Border Collie

**Beth Johnson, DVM, DACVIM**  
Beth.Johnson@sonopath.com

**SEX**

Male

**AGE**

7 Years

**WEIGHT**

37 Pounds

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