



**PATIENT PRESENTING CLINICAL SIGNS**

**PATIENT** Jasper Wray  
**SPECIES** Canine  
**BREED** Border collie  
**SEX** MN  
**AGE** 11 years  
**WEIGHT** 30 kg

History: 2-day duration of lethargy and inappetence, which has improved.  
 Physical Examination: Mild abdominal distension, pale mucosa. Hemorrhagic fluid on abdominocentesis.  
 Urinalysis: N/A.  
 CBC: Regenerative anemia.  
 Serum Biochemistry: Hypoproteinemia.  
 Radiographic Findings: N/A.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

Full urinary bladder with a normal appearance and thickness of the wall. Normal anechoic urine with no sediment or uroliths evident.

Normal trigone area, proximal urethra, and iliac blood vessels.

Normal iliac lymph nodes. Ureters not visualized.

Normal renal size (left 6.5 cm, right 5.8 cm) with increased echogenic appearance, some loss of cortico-medullary differentiation, and normal blood flow, pelvis and capsule.

**Reproductive System**

Small hypoechogenic prostate.

**Adrenal Glands**

Normal shape, echogenic appearance, and position but plump in size. Left 0.73 cm, right 0.89 cm.

**Spleen**

Normal size and echogenic appearance. Smooth homogenous parenchyma, smooth curvi-linear capsule, and normal vasculature. Multiple irregular mottled echogenic parenchymal masses (up to 2.1 x 3.3 cm in size) with distortion of the overlying capsule.

**Liver**

Enlarged with rounded edges, diffuse mottled echogenic appearance and some loss of portal markings. Multiple irregular mottled echogenic parenchymal masses (up to 5.6 x 5.8 cm in size) with distortion of the overlying capsule. Small gall bladder containing normal anechoic bile. Normal thickness and echogenic appearance of the gall bladder wall. Normal bile duct.

**Gastrointestinal**

Normal appearance of the stomach, duodenum, small intestine, ileo-cecal junction, and colon with no loss of layering, normal wall thickness and peristaltic activity, and no distension of the lumen.

**INTERPRETED BY**

Remo Lobetti, BVSc,  
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Dipl. ECVIM

**IMAGING PERFORMED BY**

Dr Lee Gregory, DVM

**HOSPITAL NAME**

Casco Bay Veterinary  
Hospital

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302743

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**PATIENT** *Pancreas*

Jasper Wray Normal size and echogenic appearance. Regular capsule. Normal echogenic appearance of the mesentery and fat surrounding the pancreas.

**SPECIES** *Free Abdomen*

Canine No mesenteric lymphadenomegaly.  
Moderate ascites No ascites.

**BREED** *Thorax*

Border collie Anechoic pulmonary nodule.  
Right atrial/auricle mottled echogenic mass.  
No pericardial or pleural effusion.

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**ULTRASONOGRAPHIC FINDINGS**

Primary Findings:

- Splenic masses.
- Hepatic masses.
- Ascites.
- Pulmonary nodule
- Right atrial mass

Secondary Findings:

- Hepatopathy.
- Plump adrenal glands.
- Age-related renal changes.

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

These ultrasound finding are typical for metastatic neoplasia (spleen, liver, lung, heart) and with regenerative anemia, hypoproteinemia, and hemorrhagic ascites, the most likely diagnosis would be ruptured hemangiosarcoma.

Etiologies for the hepatopathy would be secondary to the neoplasia, age-related, reactive, vacuolar, metabolic, chronic hepatitis, early cirrhosis, and early nodular regeneration.

The most likely etiology for the adrenomegaly would be disease stress.

At this point further assessment and specific therapy is not indicated and only palliative therapy would be recommended.

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**IMAGES**

**Spleen**





**PATIENT** Liver

Jasper Wray

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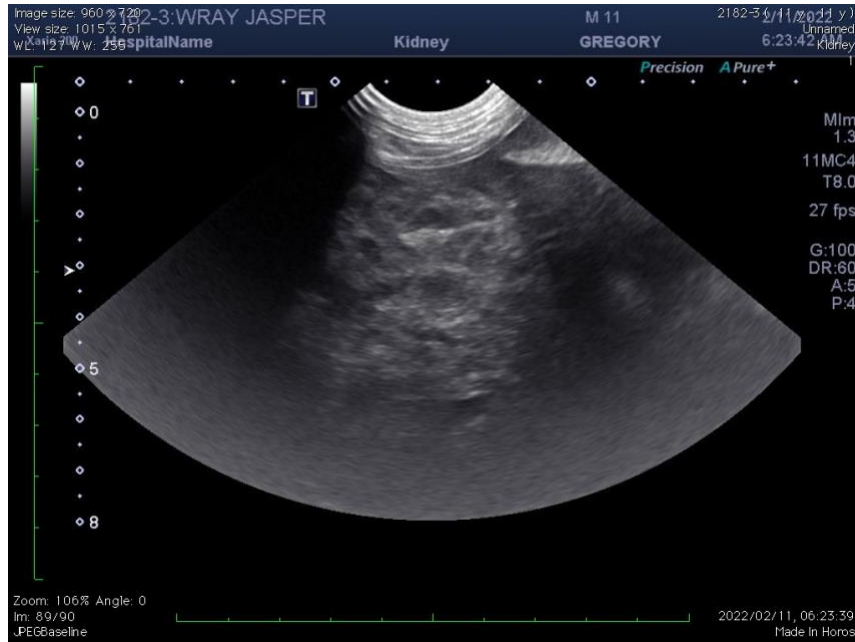
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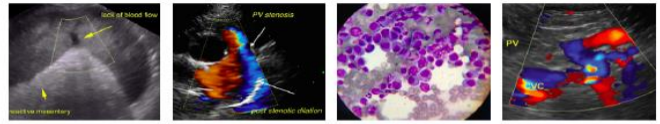
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**PATIENT**

**Lung**

Jasper Wray

**SPECIES**

Canine

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**Heart**



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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