



**PATIENT PRESENTING CLINICAL SIGNS**

Storm Naylor Has been very weak, off food and unable to stand to urinate. History of arthritis, has been on Cartrophen, Tramadol, Clindamycin for possible tooth root abscess, Thyrotabs and Ubavet. On palpation, possible splenic mass suspected.

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

Canine

**Urinary System**

**BREED**

Australian Shepherd

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal.

**SEX**

Spayed Female

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for his age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. The right kidney measured 7.6 cm. The left kidney measured 6.2 cm.

**AGE**

12 Years

**Adrenal Glands**

**WEIGHT**

50.9 Pounds

The **adrenal glands** were obscured by enhanced omentum.

**Spleen**

**INTERPRETED BY**

Eric Lindquist, DMV

The **spleen** revealed an expansive mixed hypoechoic mass with enhanced surrounding mesentery. The mass measured approximately 11.0 cm. Multiple other masses noted throughout the spleen. A large amount of echogenic free fluid was noted.

DABVP, Cert. IVUSS

**Liver**

The **liver** presented coarse architecture and multifocal nodular changes, strong concern for metastatic disease. The gallbladder was unremarkable.

**IMAGING PERFORMED BY**

Crystal Hill

**Gastrointestinal**

**HOSPITAL NAME**

Maples AH

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

**REFERRING VET**

Dr. Kazienko

**Pancreas**

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

**INVOICE**

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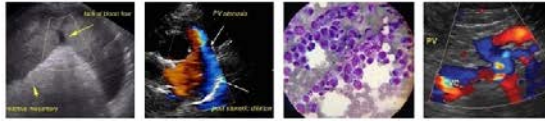
**Free Abdomen**

Free fluid noted throughout the abdomen. Nodular omental changes noted, strong concern for abdominal seeding.

**DATE**

11/23/22

Rapid view of the heart revealed no evident pathology in the right auricle or pericardium.



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Storm Naylor

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**SEX**

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Eric Lindquist, DMV  
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**HOSPITAL NAME**

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**REFERRING VET**

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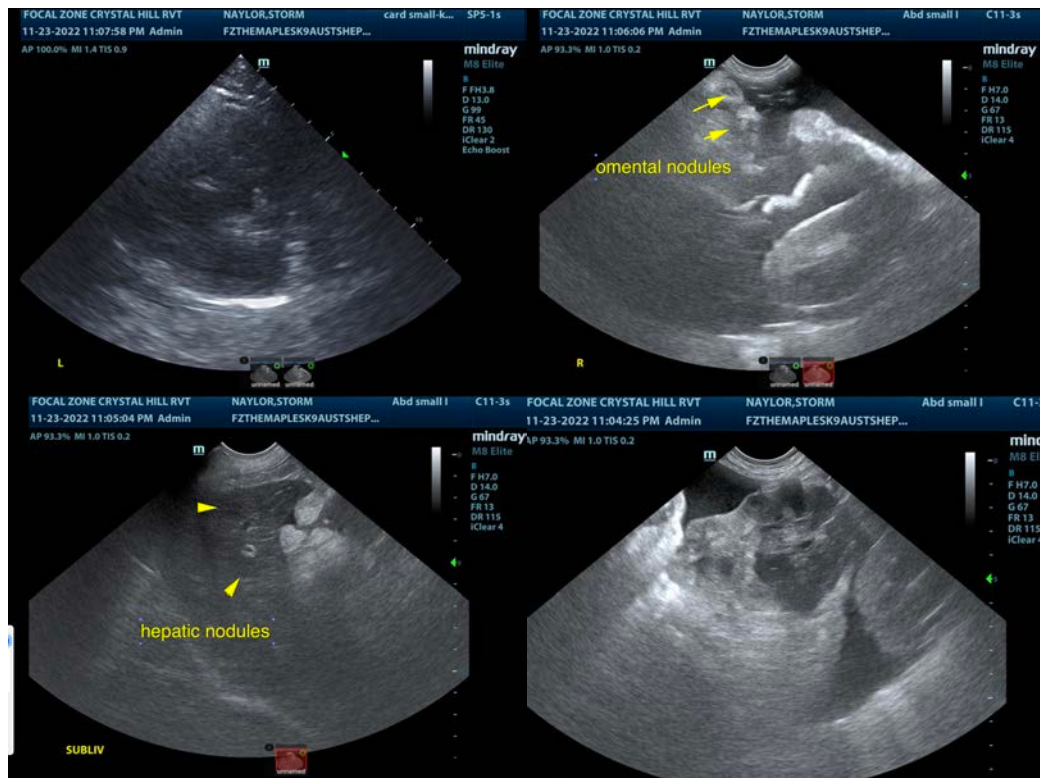
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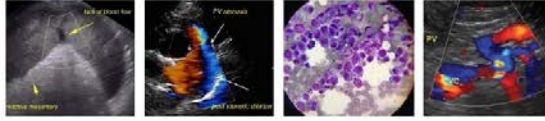
**ULTRASONOGRAPHIC FINDINGS**

- Splenic masses and omental nodular changes
- Heterogeneous hepatic changes
- Free fluid
- Age related renal changes

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Strong concern for abdominal seeding and metastasis to the liver. Exploratory surgery necessary for definitive diagnosis. Hemangiosarcoma or similar neoplasia suspected.





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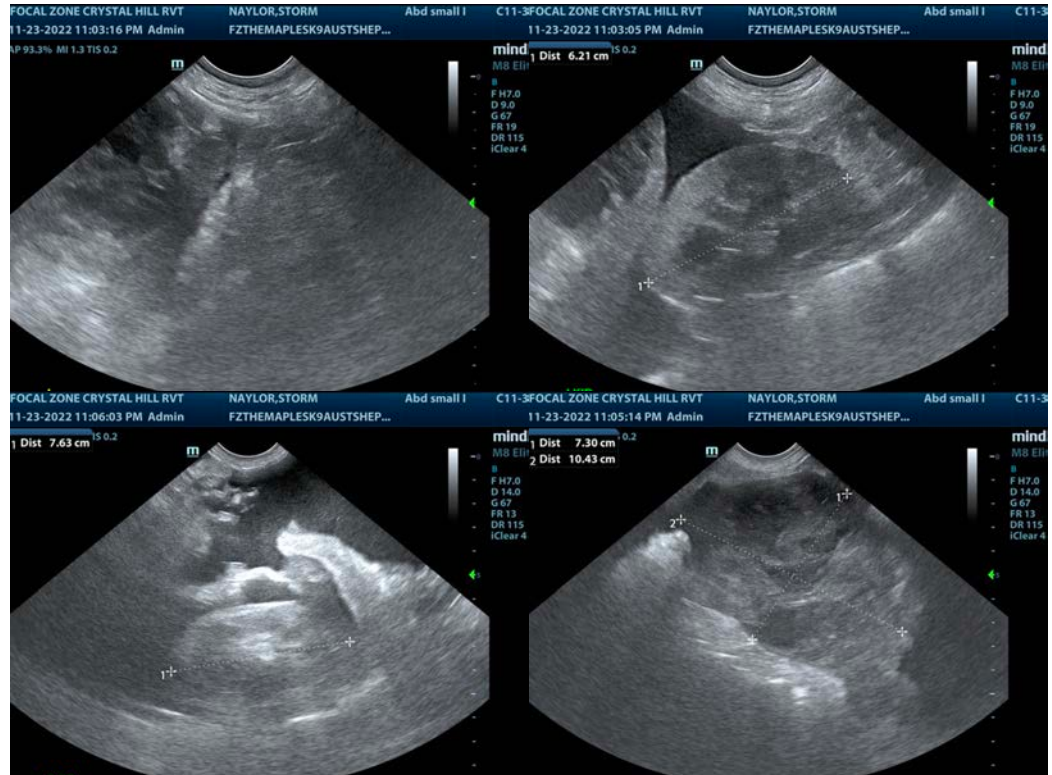
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com

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