



**PATIENT**

Jasper Ross

**SPECIES**

Canine

**BREED**

Min Schnauzer

**SEX**

Neutered Male

**AGE**

11 Years

**WEIGHT**

8.6 kg

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING  
PERFORMED BY**

Dr. Belan

**HOSPITAL NAME**

Aspen AH

**REFERRING VET**

Dr. Ross

**INVOICE**

15939

**DATE**

6/8/22

**PRESENTING CLINICAL SIGNS**

History: Muscle wasting lethargy

Abnormal PE/Chem/CBC/UA Results: Anemic with moderate elevation of liver enzymes UA urobilogen in the urine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

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.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some mild 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. Mineralization was present, nonobstructive. The right kidney measured 4.8 cm. The left kidney measured 4.41 cm.

**Adrenal Glands**

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The right adrenal gland measured 0.4 cm at the caudal pole and 0.8 cm at the cranial pole. The left adrenal gland measured 0.59 cm at the cranial pole and 0.51 cm at the caudal pole.

**Spleen**

The **spleen** was enlarged with coalescing hypoechoic micronodular changes.

**Liver**

The **liver** was riddled with multiple disruptive nodular changes with micro and macro expansions. Hepatic nodular changes were noted in the left and right liver. An overt hepatic mass was present with disrupted architecture. The gallbladder and common bile duct were unremarkable.

**Gastrointestinal**

Variable **gastric** thickening noted. The small intestine and colon were unremarkable.

**Pancreas**

Heterogeneous **pancreatic** changes were noted.

**Free Abdomen**

A large amount of free fluid was noted throughout the **abdomen** in this patient.

A large cyst or abscess was noted adjacent to the stomach, measuring approximately 3.0 cm. This appears to be hepatic in origin.



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## ULTRASONOGRAPHIC FINDINGS

- Free fluid
- Hepatic mass with cyst or abscessation and multiple disruptive nodular changes
- Enlarged irregular spleen, with coalescing hypoechoic micronodular changes
- Chronic renal changes with mineralization
- Variable gastric thickening
- Heterogeneous pancreatic changes

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Abdominocentesis and cytospin are recommended in this patient, as well as drainage of the cystic structure and FNA of the left cranial hepatic mass and spleen for staging purposes. Supportive care warranted otherwise. Otherwise, direct exploratory surgery warranted. The hepatic changes do not appear definitive and are multifocal with a large left sided mass. Prognosis is guarded to poor, depending upon sampling.

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## REFERRING VET

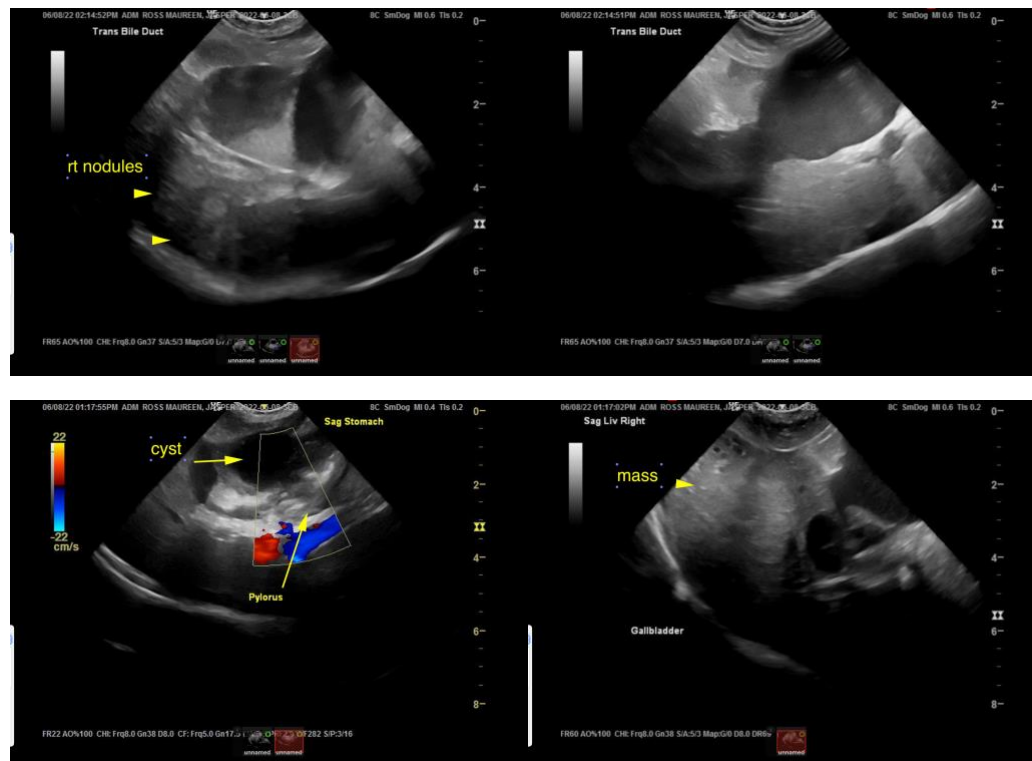
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not



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visible in the image/video clips provided.

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

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