



**PATIENT**

Jinx Beauieu

**PRESENTING CLINICAL SIGNS**

History of osteosarcoma, has had a hind leg amputated, been through chemo that finished 2 months ago, now has intermittent diarrhea and vomiting and inappetence.

**SPECIES**

Canine

Abnormal PE/Chem/CBC/UA Results: Mild increase in pancreatic enzymes

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED**

Boxer

**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.

**SEX**

Spayed Female

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The right kidney measured 5.37 cm. The left kidney measured 5.57 cm.

**AGE**

8 Years

**Adrenal Glands**

**WEIGHT**

20 kg

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 left adrenal gland measured 0.44 cm at the caudal pole and 0.37 cm at the cranial pole. The right adrenal gland measured 0.44 cm at the cranial pole and 0.48 cm at the caudal pole.

**INTERPRETED BY**

Eric Lindquist, DMV

**Spleen**

The **spleen** presented mild multifocal heterogeneous mixed echogenic nodular changes without capsular expansion. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis

DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Belan

**Liver**

The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.

**HOSPITAL NAME**

Fish Creek Pet Hospital

**REFERRING VET**

Dr. Van Slyes

**Gastrointestinal**

The **gastrointestinal** presentation revealed mild uniform prominence of the gastric mucosa as well as areas of "ropey" small intestinal wall with slight disruption of the normal 1:3 muscularis/mucosal ratio. The stomach was largely unremarkable. The intestinal submucosa was slightly irregular, thickened and hyperechoic suggestive of low grade, chronic disease. The colon was unremarkable. No concerning lymphadenopathy was visible. No evidence of obstruction was present. Chronic inflammatory bowel disease is likely with a low possibility of an early neoplastic event such as lymphoma. Full thickness

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tissue biopsies via open laparotomy, ideally guided by intraoperative ultrasound in order to obtain the most representative mural sample, would be necessary to rule out this possibility.

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**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.

**BREED**

Boxer

**ULTRASONOGRAPHIC FINDINGS**

**SEX**

Spayed Female

- Heterogeneous, nodular spleen – Pronounced hyperplasia versus metastatic or primary neoplasia. FNA indicated.
- Minor intestinal thickening

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**AGE**

8 Years

Guarded prognosis depending upon cytology results.

**WEIGHT**

20 kg

**INTERPRETED BY**

Eric Lindquist, DMV

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**IMAGING PERFORMED BY**

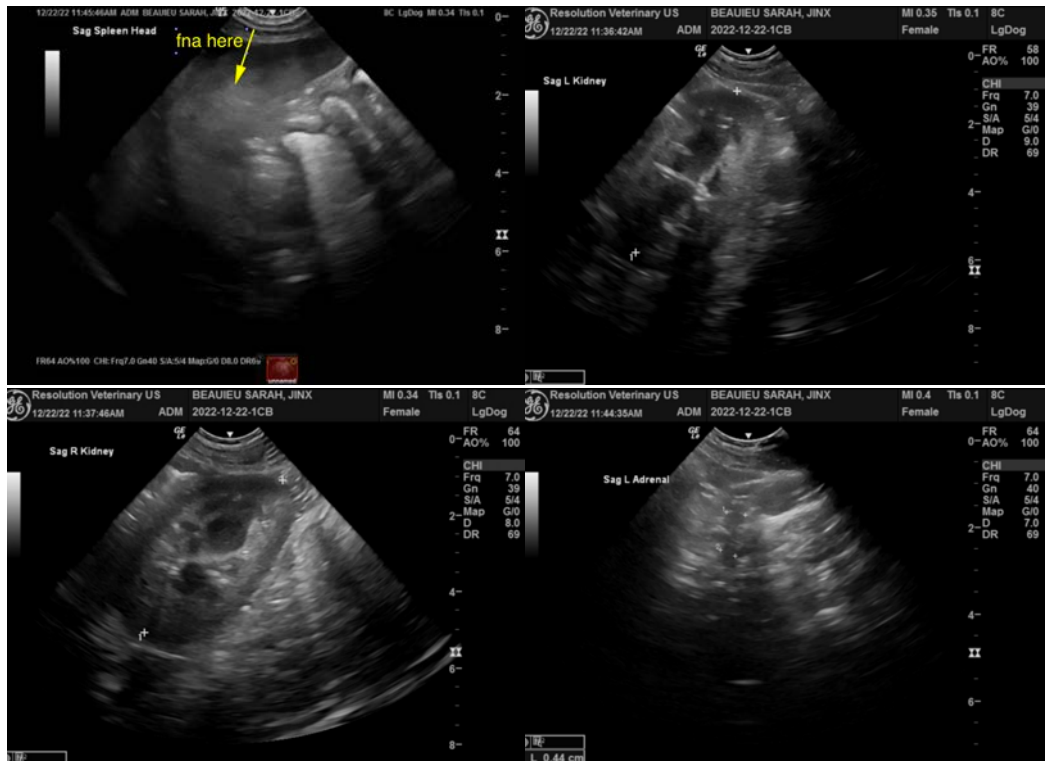
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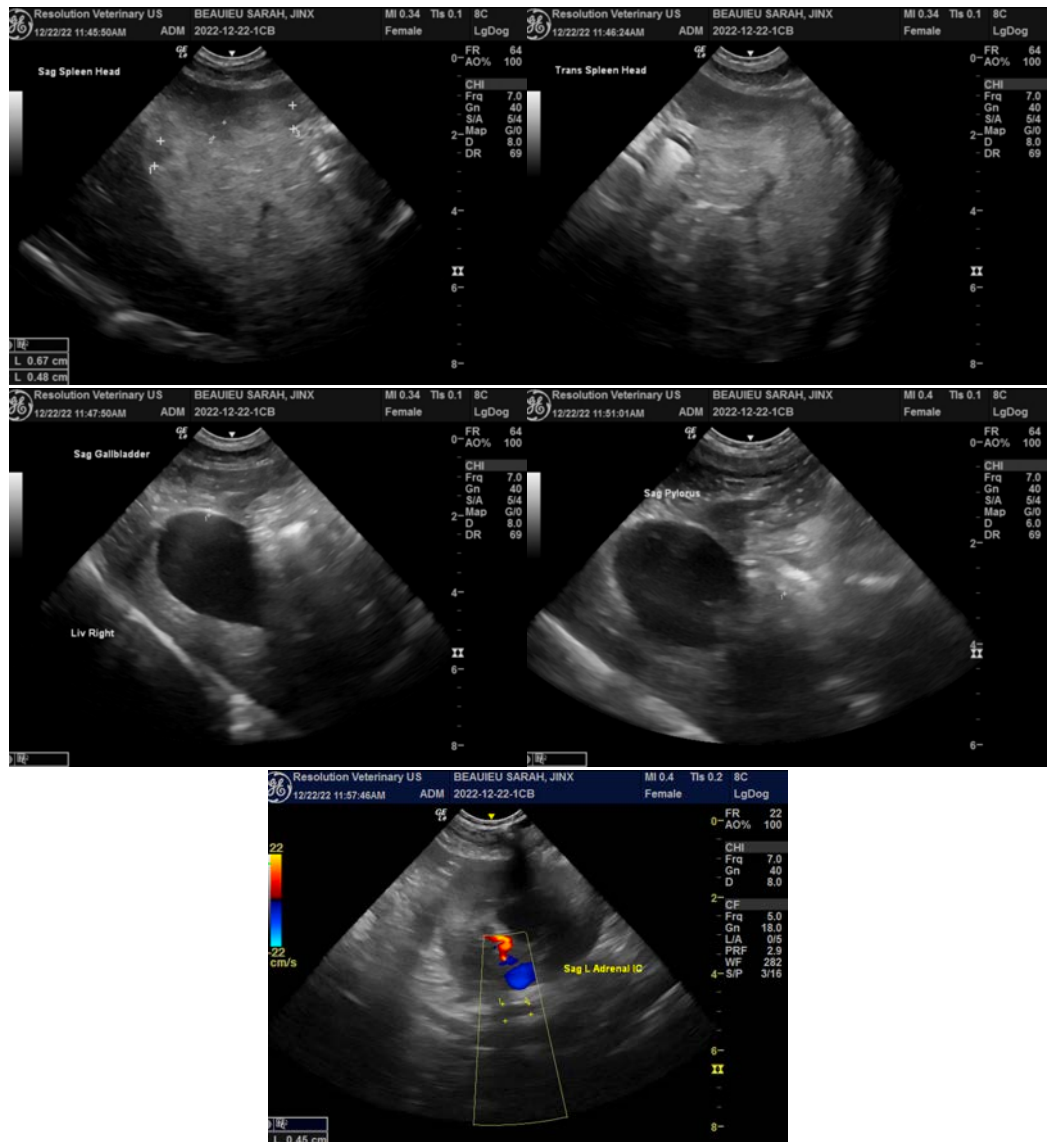
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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