



PATIENT

Zoe Smith Payne

SPECIES

Canine

BREED

Sheltie

SEX

Spayed Female

AGE

13 years

WEIGHT

11 kg

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Belan

HOSPITAL NAME

Deerfoot South Spay
and Neuter Clinic

REFERRING VET

Dr. Menan

INVOICE

95169

DATE

1/11/22

PRESENTING CLINICAL SIGNS

Patient anorexic and lethargic. Abdominal x rays show midabdominal and cranial abdominal masses. Chest x rays no abnormalities seen.
Abnormal PE/Chem/CBC/UA Results: Mild to moderate elevation of liver and kidney enzymes. Extreme elevation of lipase and amylase.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **bladder** in this patient was mildly thickened with slight echogenic mural changes. No calculi or masses were noted. Slight micropolypoid changes were noted. This is a frequent finding in older animals and may be linked to a history of chronic urinary tract infection or active urinary tract infection. Urinalysis would be recommended with culture if any evidence of inflammatory sediment is present. The region of the trigone and visible pelvic urethra were normal.

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 this age patient. Medullary structure differed distinctly from that of the cortex. Slight pyelectasia was noted. The left kidney measured 4.4 cm. The right kidney measured 4.4 cm.

Adrenal Glands

The right **adrenal gland** was heterogenous and mildly irregular measuring 0.53 cm at the caudal pole and 0.4 cm at the cranial pole. The left adrenal gland was mildly irregular and measured 0.5 cm.

Spleen

The **spleen** revealed multi-focal, hypoechoic nodular changes and undulating contour.

Liver

The right **liver** revealed an expansive, mixed echogenic mass that measured 3.6 cm. Regional inflammation was noted. The mass occupied the base of the caudate process. The gallbladder was deviated and over distended. The common bile duct measured up to 0.66 cm. This is consistent with post hepatic obstruction with cholangitis.

Gastrointestinal

The **stomach** appeared normal in this patient. Irregular duodenal thickening was noted along with regional inflammation. The colon was unremarkable.



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Pancreas

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The **pancreas** revealed extensive, mixed hypoechoic parenchymal changes with regional inflammation. There are areas of necrosis noted and are void of blood flow.

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Free Abdomen

Cranial abdominal lymph nodes were enlarged, rounded and hypoechoic measuring up to 2.0 cm.

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ULTRASONOGRAPHIC FINDINGS

SEX

Extensive pancreatic and hepatic pathology. Pancreatic necrosis pattern with potential carcinoma.

Spayed Female

Regional lymphadenopathy.

Caudate liver mass.

AGE

Regional peritonitis.

13 years

Irregular right and left adrenal gland.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

FNA of the lymph nodes, pancreas, and liver mass are all indicated for further definition. Pathology may be obscured by regional inflammation. Multi-centric neoplastic process is suspected with post hepatic obstruction owing to pancreatic pathology and concurrent biliary disease. Prognosis is guarded to poor depending upon cytology results. However, lymph nodes, pancreas and liver all meet neoplastic criteria.

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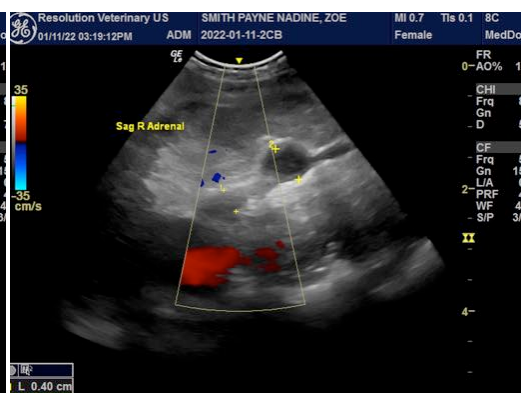
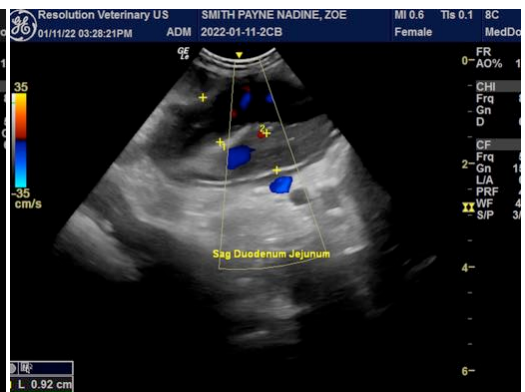
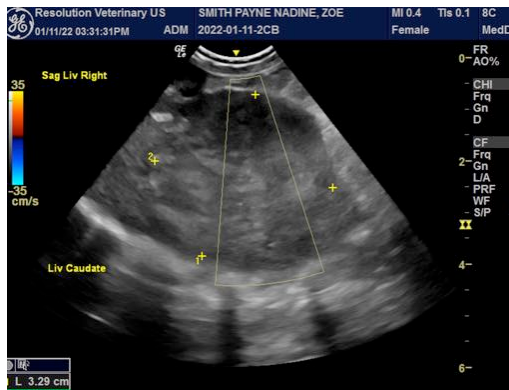
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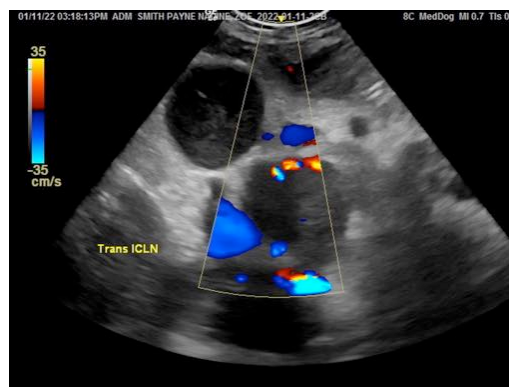
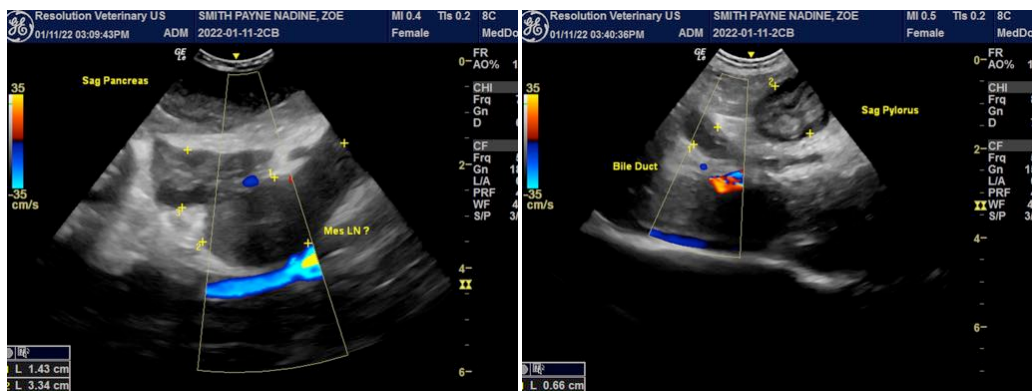
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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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info@SonoPath.com

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