



**PATIENT**

**PRESENTING CLINICAL SIGNS**

Nakora Neidringhaus

History: Received triamcinolone injection in her ear for an aural hematoma on 1/2/23. Previously diagnosed with hormone-responsive urinary incontinence and managed well with herbal medicine, Was incredibly PU/PD after steroid injection. However, owner feels that even prior to injection she has noted change in body shape - abdomen somewhat pot-bellied. Has had pet with recent hx of abdominal mass and wanted her checked out.

**SPECIES**

Canine

Abnormal PE/Chem/CBC/UA Results: Somewhat pendulous abdomen but no overt abnormalities on exam. Labs: 2x ALT and ALP 4 days after steroid injection with very low USG, which has since improved prior to injection (11/2022), ALP was 293.

**BREED**

Pit Mix

**SEX**

Spayed female

**AGE**

11 years

**WEIGHT**

65.8 lbs

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The pelvic urethra was imaged 1.0 cm beyond the cystourethral junction and appeared normal. 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 was 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 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. Slight pinpoint mineralization was noted in the kidneys. An anechoic cyst was noted in the cranial pole of the right kidney. The right kidney measured 6.77 cm. The left kidney measured 6.68 cm.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**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 0.6 cm at the caudal pole and 0.64 cm at the cranial pole. The left adrenal gland measured 0.5 cm.

**IMAGING PERFORMED BY**

Dr. Kirk

**HOSPITAL NAME**

Shiloh AH

**Spleen**

**REFERRING VET**

Dr. Silverstein

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes was noted.

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**Liver**

**DATE**

1/26/23

The **liver** revealed a mass that was localized in the caudate process. The mass impinged upon the right kidney caudally and the diaphragm cranially. The mass measured 8.0 x 8.7 cm. Minor heterogenous



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changes were noted elsewhere in the liver. The gallbladder was moderately over distended. Gallbladder sand was also noted.

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**Gastrointestinal**

**SPECIES**

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.

Canine

**BREED**

**Pancreas**

Pit Mix

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.

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**AGE**

**ULTRASONOGRAPHIC FINDINGS**

11 years

Right medial liver mass, appears to be deriving from the caudate process.

Gallbladder sand and over distension.

**WEIGHT**

Minor gastric fluid.

65.8 lbs

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**INTERPRETED BY**

CT evaluation for potential surgical planning is recommended. FNA is indicated to assess for carcinoma versus non-neoplastic granulomatous mass. If surgery is to be performed manual expression of the gallbladder is indicated. Ursodiol therapy can be considered for short term until potential surgical planning can occur. It is debatable on the respectability of the mass.

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

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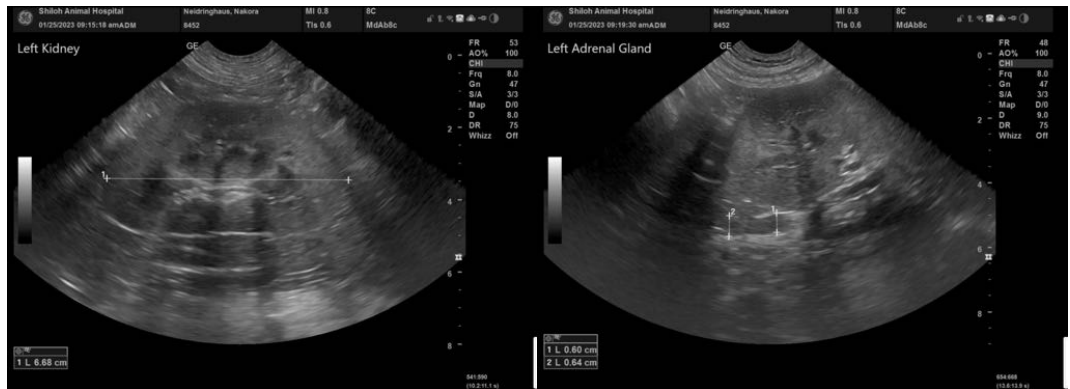
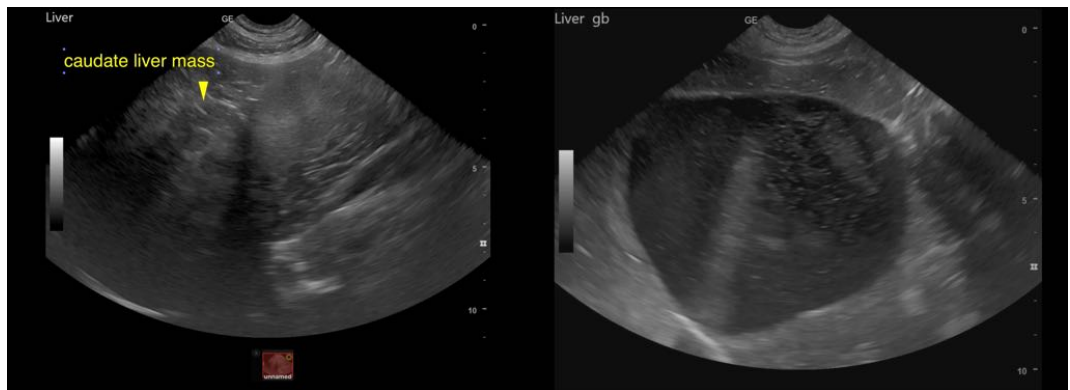
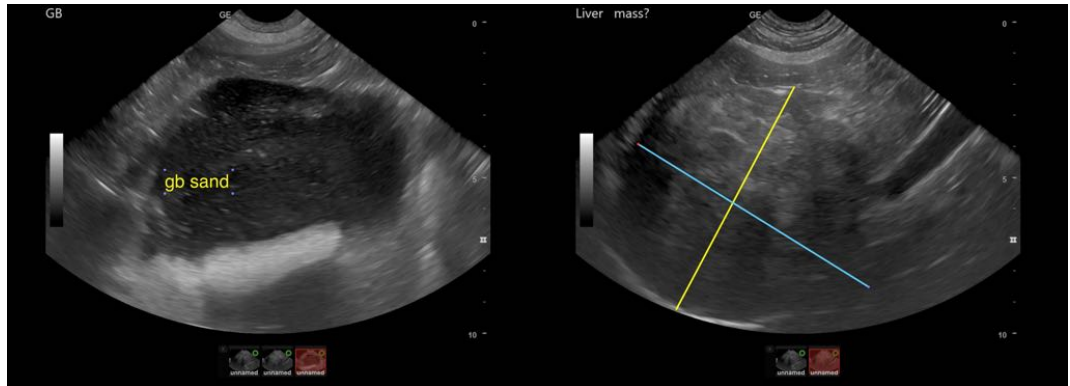
Dr. Silverstein

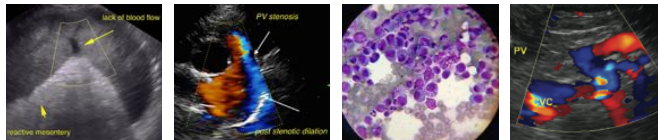
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

**SPECIES**

Canine

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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Pit Mix

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

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