



PATIENT PRESENTING CLINICAL SIGNS

Goreh Sihh History: 13 yr old shihtzu, pu/pd/pp, pot bellied appearance. increasingly elevated LES: ALP,AST, ALT,GGT. 2+ proteinuria, elevated urine cortisol/cr ratio. Suspecting Cushings Dz vs other liver disease. today he is having LDDST, Blood Pressure, and abd u/s. concern for liver texture. plump L AG, not able to clearly visualize the R AG. no other symptoms noted. Addendum: LDDST is NOT supportive of Cushing's Disease.

SPECIES

Canine

BREED

Shih Tzu

SEX

Male

AGE

13 years

WEIGHT

20.3 lbs

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 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, non-obstructive mineralization was noted in both kidneys. The left kidney measured 4.0 cm. The right kidney measured 4.8 cm.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Adrenal Glands

The **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 2.68 x 0.73 cm. The right adrenal gland measured 0.8 cm.

IMAGING PERFORMED BY

Dr. Salas

Spleen

HOSPITAL NAME

Tenaflly VC

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.

REFERRING VET

Dr. Salas

Liver

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The **liver** revealed a mild to moderate complex mass that measured 5.9 x 7.3 cm with periserosal inflammatory pattern. The liver mass appeared to occupying the majority of the left liver with capsular impingement and expansion. There was impingement upon the medial liver noted. This extended cranially dorsally to the diaphragm. Adherence to the diaphragm may be an issue. Other separate, expansive nodules were noted. The gallbladder revealed a minor amount of dependent debris and a

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PATIENT

minor amount of sand. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident.

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SPECIES

Gastrointestinal

Canine

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.

BREED

Shih Tzu

Pancreas

SEX

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.

Male

AGE

13 years

ULTRASONOGRAPHIC FINDINGS

Large liver mass, potentially resectable.

WEIGHT

Slight mineralization noted in both kidneys.

20.3 lbs

Otherwise, age related abdominal changes.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

CT evaluation is warranted for surgical evaluation/planning. I suspect carcinoma. FNA could be considered for further definition.

IMAGING PERFORMED BY

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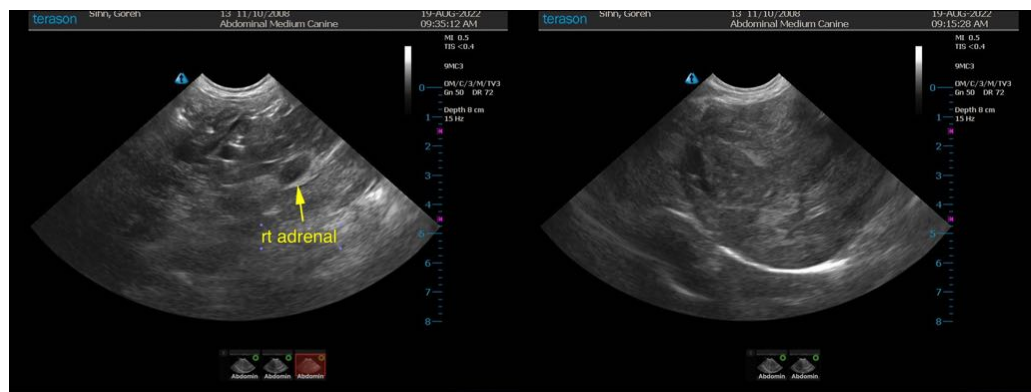
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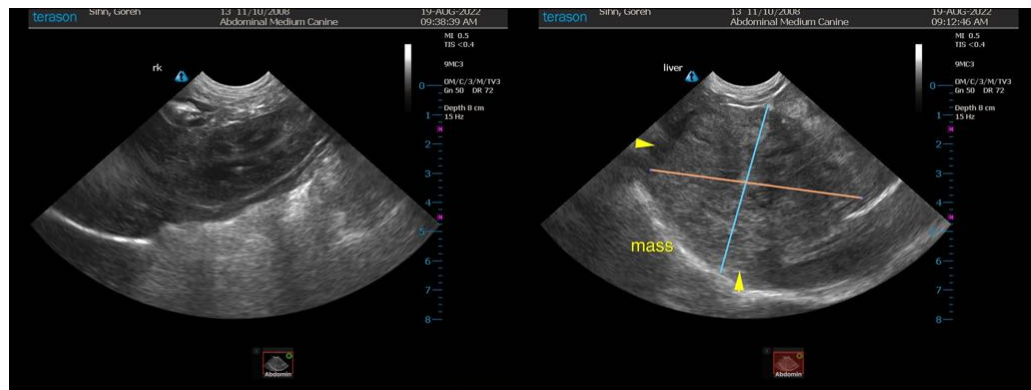
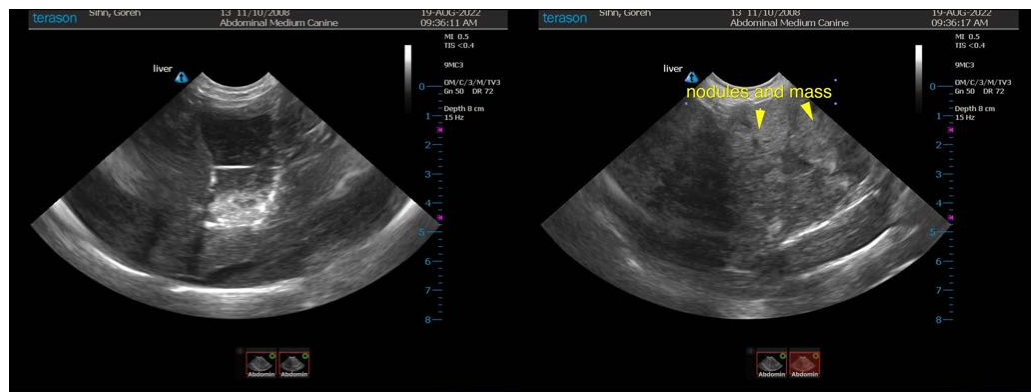
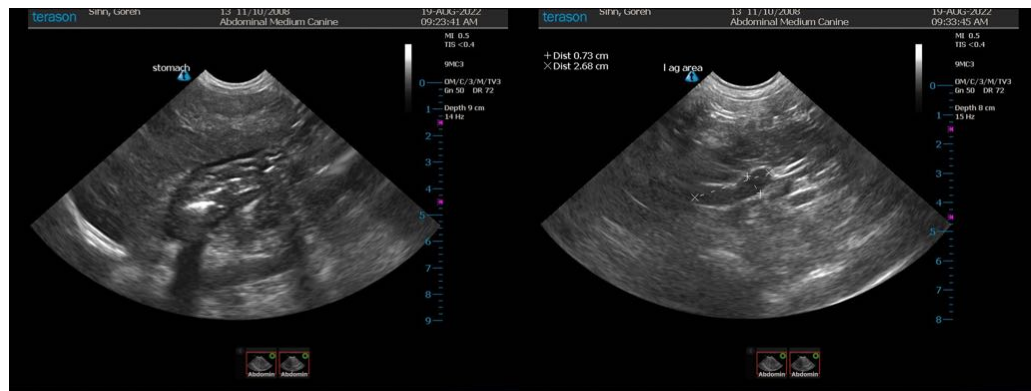
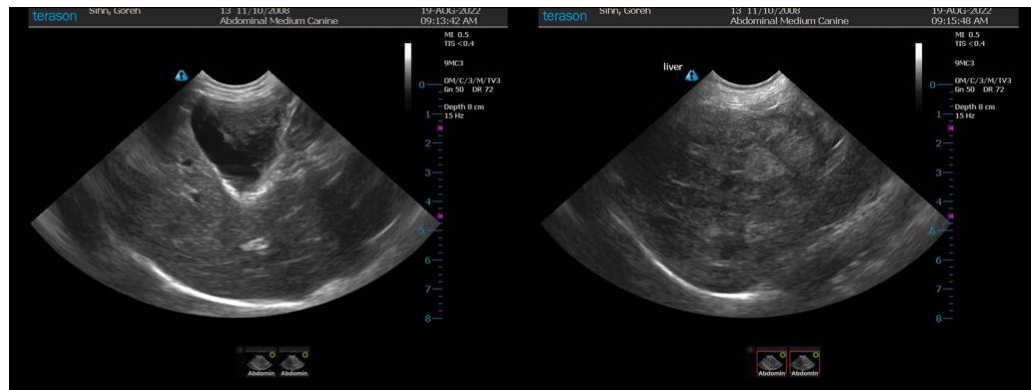
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

BREED

Shih Tzu

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

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