



PATIENT

Taco Marsh

PRESENTING CLINICAL SIGNS

History of peri-anal adenoma. Elevated liver enzymes and positive LDDST. Chronic UTI s
Abnormal PE/Chem/CBC/UA Results: Positive LDDST and mild elevation of liver enzymes

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

Boston Terrier

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. Wall thickness at moderate repletion measured up to 0.32 cm. 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.

SEX

Spayed Female

The **kidneys** revealed moderate degenerative changes with increased cortical echogenicity with microcystic cortical changes with corticomedullary calculi. Anechoic cysts were noted in the cranial pole of the right kidney and measured 3.0 cm. The left kidney revealed slight pyelectasia that measured 0.22 cm. The left kidney measured 5.06 cm.

AGE

13 years

WEIGHT

12 kg

Adrenal Glands

The left **adrenal gland** revealed an irregular mineralizing mass. Capsular expansion without capsular escape was noted. However, pericapsular hyperechoic fat was noted. This is suggestive for inflammation. The mass is moderately vascular and appears resectable. The mass measured up to 2.0 cm. The right adrenal gland was enlarged, irregular and mineralized measuring up to 1.16 cm at the caudal pole and 1.37 cm at the cranial pole. There was no vascular invasion; however, significant irregularity was noted. Regional inflammation was noted around both adrenal glands.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Belan

Spleen

The **spleen** was normal size and relatively normal contour with multifocal hyperechoic areas of mineralization. This is a benign change; however, can be related to Cushing's disease or other endocrinopathies. The spleen was folded upon itself caudally.

HOSPITAL NAME

Animal Clinic Downton

REFERRING VET

Dr. Waldman

Liver

The **liver** revealed multi-focal, hyperechoic, lipogranulomatous nodules with swollen, irregular contour. Heterogenous parenchymal changes were noted. The gallbladder revealed a minor amount of debris and minor over distension. The common bile duct was at the upper limits of normal at 0.39 cm. There was no overt obstruction.

INVOICE

95750

Gastrointestinal

DATE

2/1/22

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



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demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

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Pancreas

Heterogenous, mixed, echogenic changes were noted throughout the **pancreas**. Some level of inflammation is suspected.

BREED

Boston Terrier

ULTRASONOGRAPHIC FINDINGS

Heterogenous bilateral adrenal glands with mineralization. Bilateral carcinoma is possible versus PDH.

SEX

Spayed Female

Mineralized spleen.

AGE

13 years

Low-grade pancreatitis is possible.

WEIGHT

12 kg

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

CT evaluation of the abdomen would be ideal for potential surgical planning. However, medical management may be the best option in this patient. An argument could be made for adrenal dependent and PDH in this patient. Urine culture and sensitivity is warranted along with medical management for Cushing's. Early phrenic vein invasion is suspected in both adrenal glands, but would be best assessed through CT with contrast.

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For an additional charge an internal medicine consult can be utilized through [Sonopath.com](http://sonopath.com). You can select the internal medicine drop down at <http://spa.sonopath.com/>.

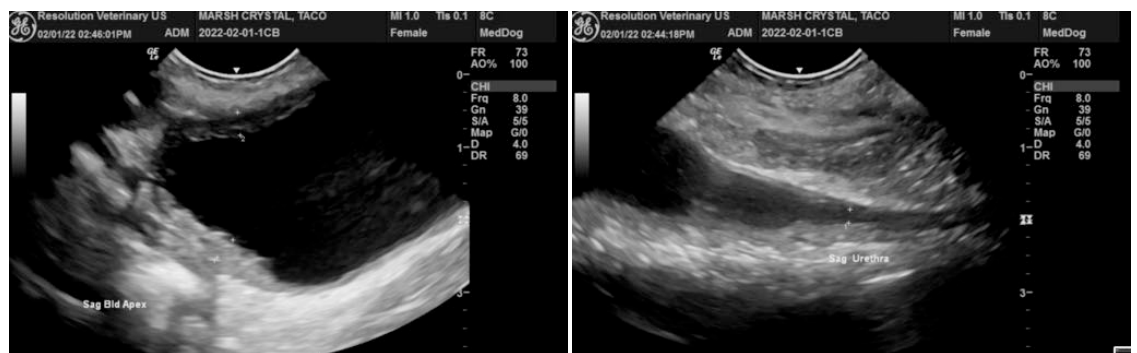
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One of the world's top internists & SonoPath associate Dr. Remo Lobetti BVSc, MMedVet, PhD, DECVIM can evaluate your case through SonoPath. <https://sonopath.com/resources/sonopath-services/internal-medicine-teleconsultation-services>

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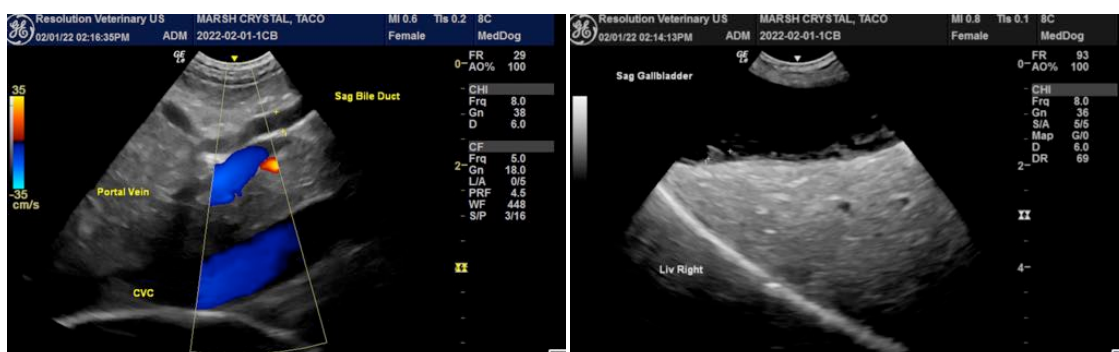
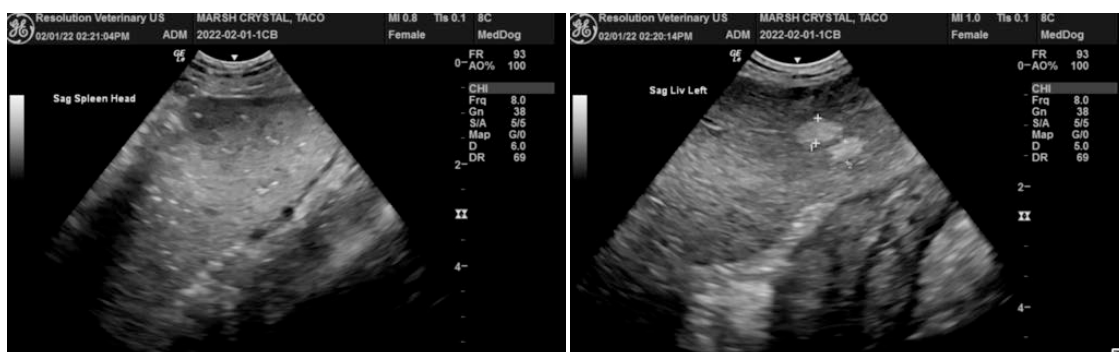
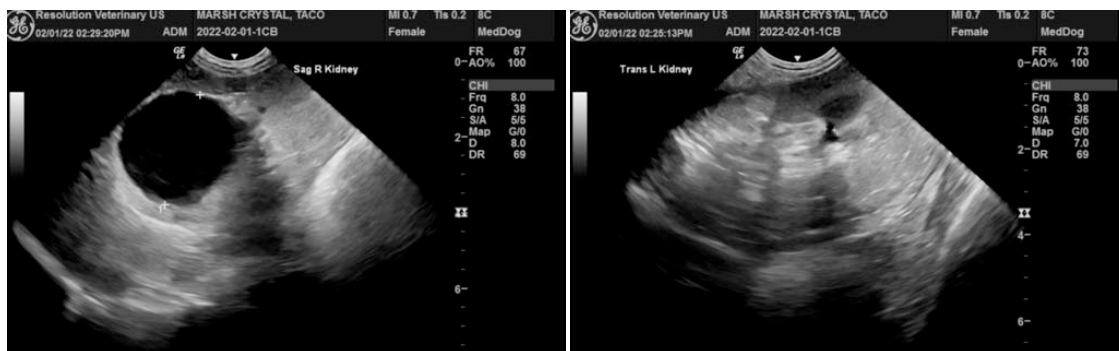
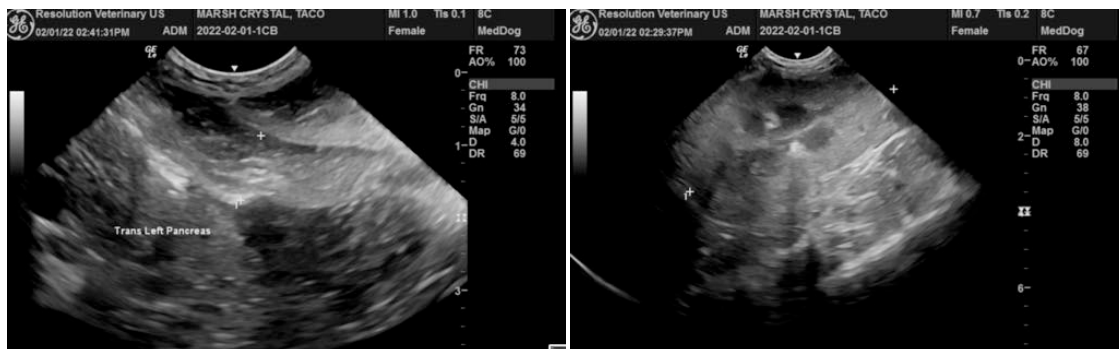
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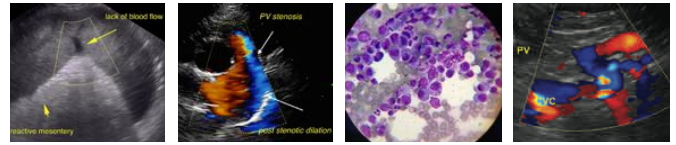
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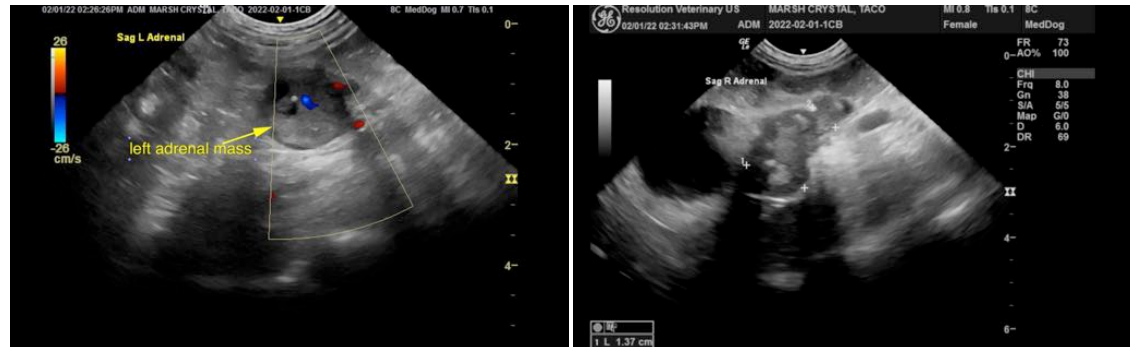
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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