



PATIENT

Turbo Brooks

SPECIES

Canine

BREED

Hound X

SEX

Neutered Male

AGE

10+ Years

WEIGHT

49 Pounds

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

JK

HOSPITAL NAME

Hamburg Vet Clinic

REFERRING VET

Dr. DenHeyer

INVOICE

41559

DATE

9/23/22

PRESENTING CLINICAL SIGNS

Lethargic, anorexic, vomiting, elevated liver values and swollen popliteal lymph nodes. Jaundice

Abnormal PE/Chem/CBC/UA Results: ALT 282, AST, 139, ALP > 993, GGT 19 TOTAL BILI 4.7 BG 55

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 were noted. Ureteral papillae were normal. The pelvic urethra was imaged 1.0 cm beyond the cystourethral junction.

Iliac lymph nodes were mildly enlarged.

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. The right kidney measured 6.12 cm. The left kidney measured 6.61 cm.

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 left adrenal gland measured 2.14 cm x 0.64 cm.

Spleen

The **spleen** was enlarged and folded upon itself with honeycomb type appearance and enhanced surrounding mesentery and free fluid.

Liver

The **liver** was swollen and irregular in contour. The gallbladder was thickened. Increased portal markings and free fluid noted. Hepatic lymph nodes were enlarged, rounded, hypoechoic, and irregular. Enhanced mesentery noted.

Gastrointestinal

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.

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.



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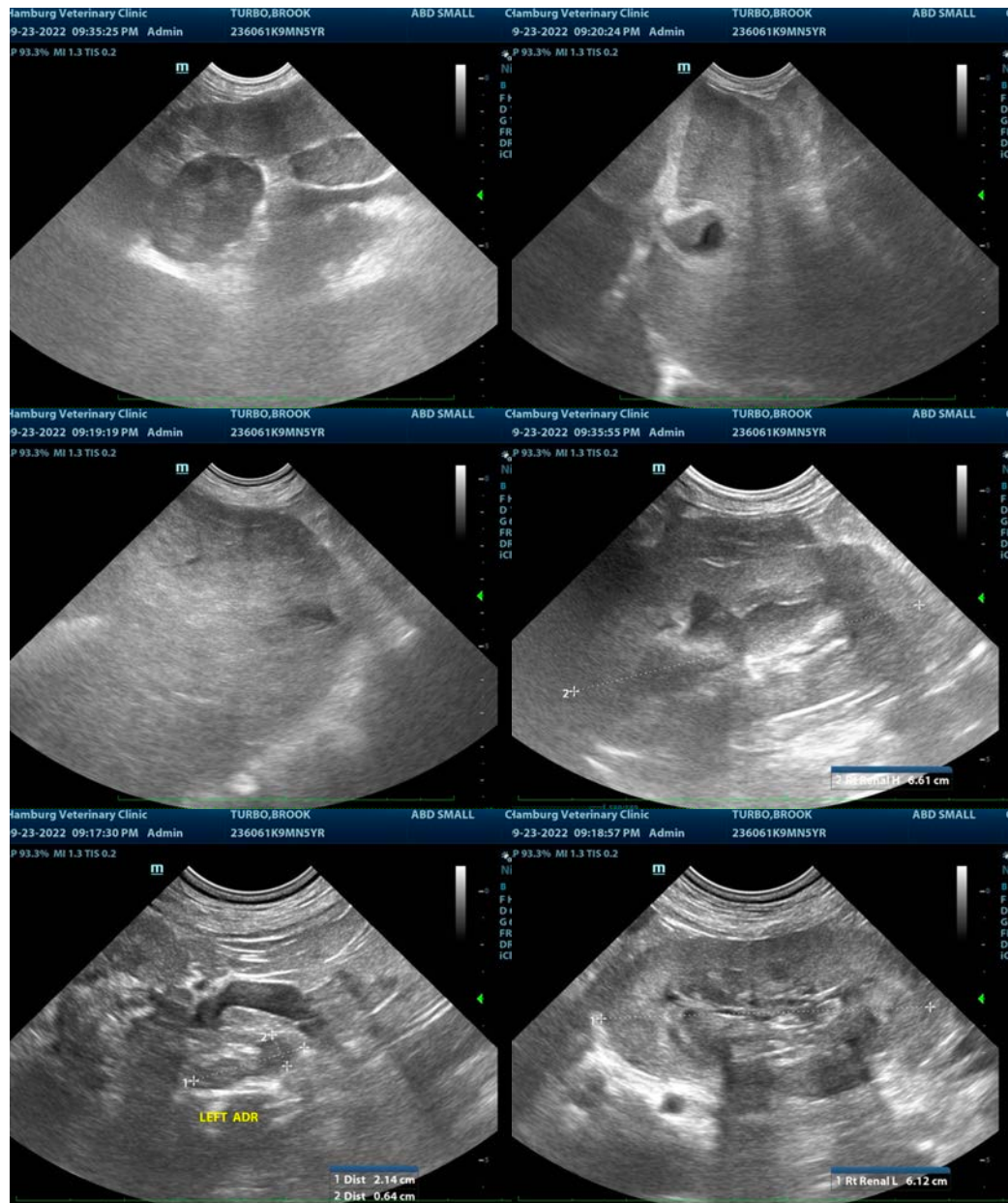
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ULTRASONOGRAPHIC FINDINGS

- Aggressive infiltrative pattern involving the spleen, liver, and lymph nodes with secondary paraneoplastic effusion owing to lymphatic congestion
- Age related renal changes

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

FNA spleen and liver recommended with immediate chemotherapeutic intervention.





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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.

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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.

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

info@SonoPath.com

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