



PATIENT

Elsa Morris

SPECIES

Canine

BREED

Chihuahua X

SEX

Intact Female

AGE

8 Years

WEIGHT

27.4 Pounds

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Shari Reffi, CVT

HOSPITAL NAME

AH of Roxbury

REFERRING VET

Dr. Hickenbotton

INVOICE

45487

DATE

2/24/23

PRESENTING CLINICAL SIGNS

Decreased appetite, pu/pd, lethargic, mildly swollen vulva (last heat cycle in January). Temp-102.7. No current meds.

Abnormal PE/Chem/CBC/UA Results: Pending

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 **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The right kidney measured 5.97 cm. The left kidney measured 5.5 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 right adrenal gland measured 1.99 cm x 1.03 cm at the cranial pole and 0.70 cm at the caudal pole. The left adrenal gland measured 2.29 cm x 0.44 cm at the cranial pole and 0.46 cm at the caudal pole.

Spleen

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 were noted.

Liver

The caudate **liver** revealed an isoechoic mass measuring 5.2 cm x 4.0 cm. Hyperechogenic nodules noted in the liver, consistent with lipogranulomas up to 1.83 cm. Minor increased portal markings noted. The gallbladder and common bile duct were unremarkable.

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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Other

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The uterus was dilated in this patient to approximately 1.0 cm with thickened wall and fluid filled lumen. The right ovary was uniform, measuring 1.0 cm x 0.51 cm. The left ovary measured 1.0 cm.

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ULTRASONOGRAPHIC FINDINGS

- Metritis pattern, mucometra/pyometra at an early phase
- Caudate liver mass – may be benign hepatoma.
- Lipogranulomatous liver changes

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Recommend ovariectomy for resolution of the immediate clinical signs. However, biopsy of the caudate process of the liver should be considered. Inspection of the liver and biopsy, particularly of the caudate process and right medial liver, would be indicated to ensure this is a benign change. Otherwise, CT evaluation could be considered for potential surgical resection of the swelling in the right medial liver along with ovariectomy.

SonoPath CT Services are offered at the SonoPath Imaging and Veterinary Education Center, 141 Main St (rt 206), Andover, New Jersey, a 20-minute drive west on route 80/206 North from the route 80/287 interchange/Parsippany, New Jersey. More information can be found at

<https://sonopath.com/services/sonopath-ct-services>

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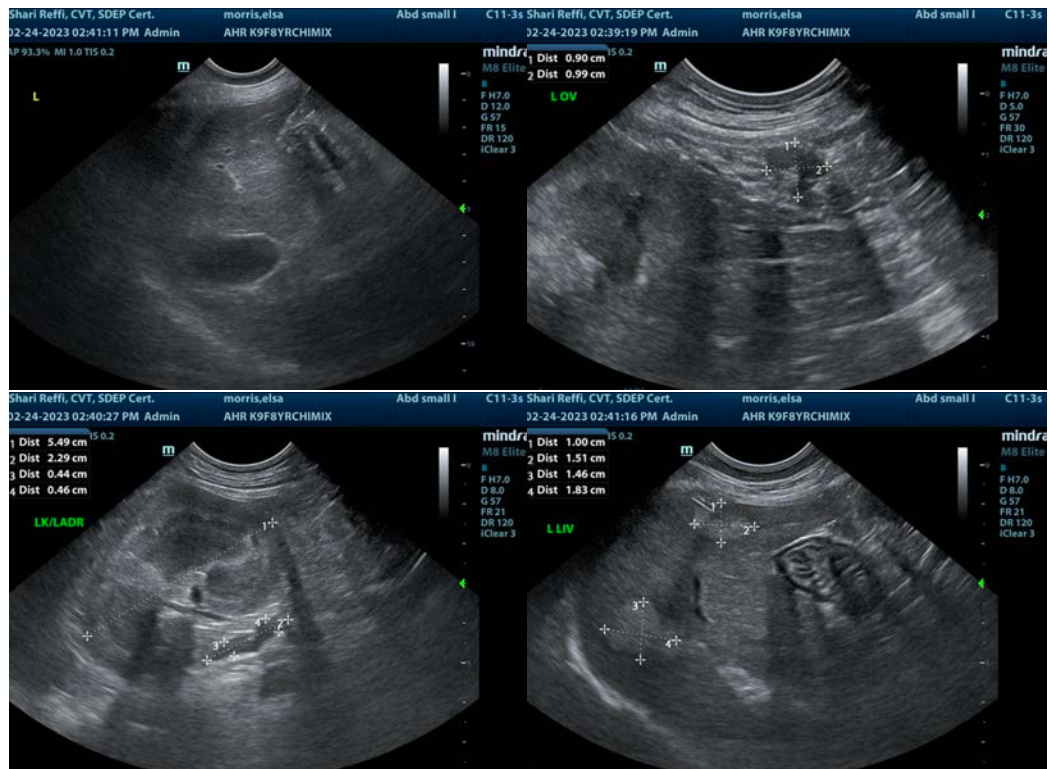
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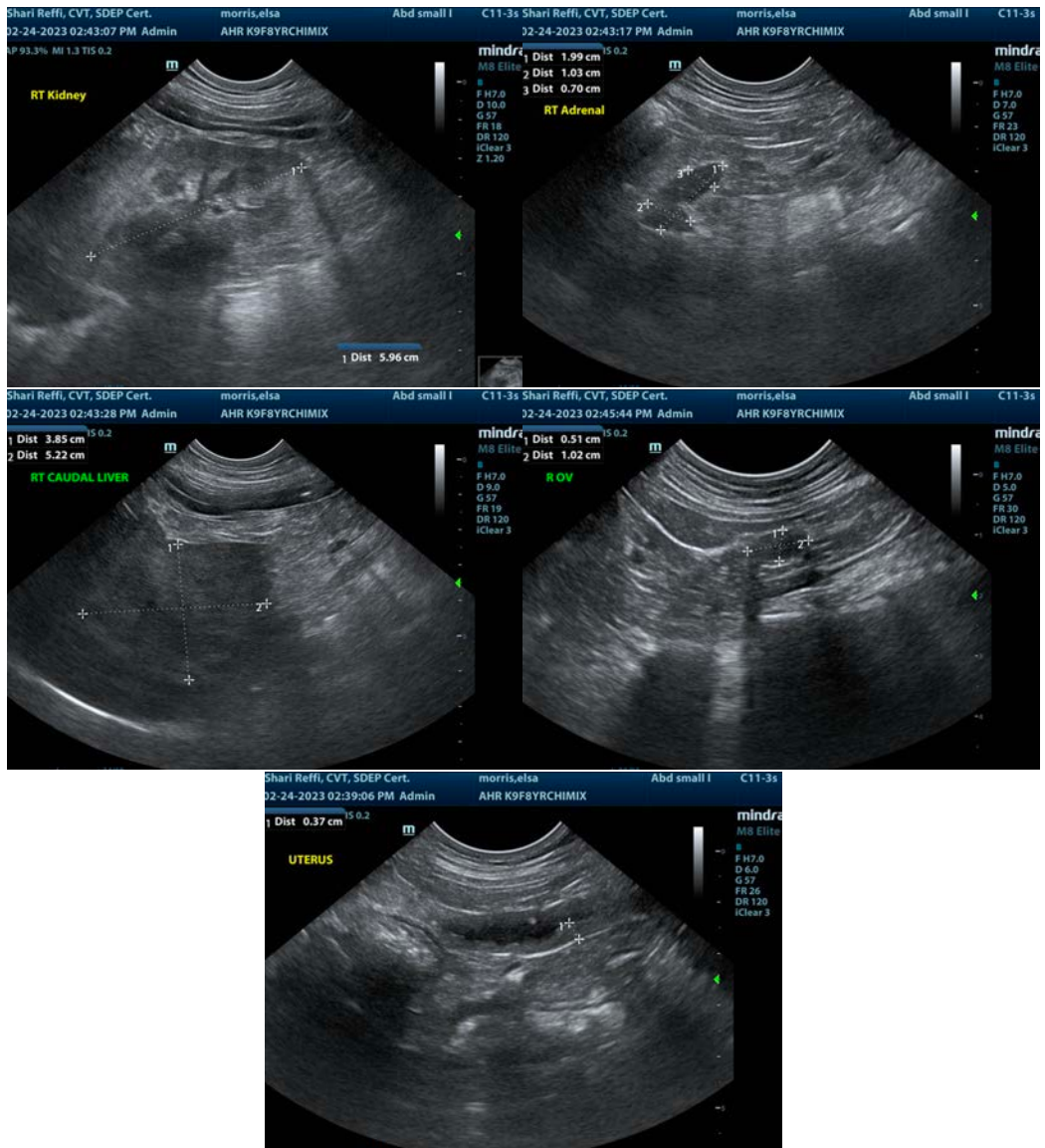
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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

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