



PATIENT PRESENTING CLINICAL SIGNS

PATIENT
Ella Carboni

SPECIES
Canine

History: Patient presented for routine annual wellness evaluation and bloodwork. Slowly increasing liver enzymes over past three years. Abdominal ultrasound requested to rule out pathology.
Medications: Prednisolone 5mg PO SID; Cyclosporine 25mg PO SID Problem List: Dental disease
Growth on neck - stable Historical IBS Giardia positive at time of bloodwork
Abnormal PE/Chem/CBC/UA Results: 2023: Platelets 498, K 3.7, ALP 456 Historic ALP ('21, '22, '23): 191, 280, 456 Giardia positive

BREED ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

West Highland Terrier

Urinary System

SEX
Canine

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.

AGE
10 years

The iliac trifurcation was unremarkable.

WEIGHT
12 lbs

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 left kidney measured 4.1 cm.

INTERPRETED BY Adrenal Glands

Eric Lindquist, DMV DABVP, Cert. IVUSS

Both **adrenal glands** appear somewhat flattened and isoechoic. The left adrenal gland measured 0.4 cm. The right adrenal gland measured 0.5 cm at the cranial pole and 0.35 cm at the caudal pole.

IMAGING PERFORMED BY Spleen

Dr. Leal

HOSPITAL NAME
Wellesley AH

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 Liver

Dr. Leal

Exam of the cranial abdomen demonstrated excessive **liver** size, swollen contour, with conserved uniform architecture. Parenchymal echogenicity was diffusely isoechoic to the spleen and falciform fat. Minor excessive GB debris was noted with the presence gall bladder dilation and precipitate without the overt formation of mucocele but this may be an issue in the future. Minor gallbladder polyps were noted. This type of liver presentation typically is associated with slow and gradual SAP elevations with low-grade ALT rise. USG-FNA sampling is encouraged if more aggressive LE profiles are present such as ALT > 200 or rapid rise in SAP. These presentations are usually reactive hepatopathies owing to other

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PATIENT

disease processes either endocrine (Diabetes, Hypothyroidism, Cushing's disease), "antigen surveillance" from the gut/pancreas, or idiopathic breed predisposed progressions.

Ella Carboni

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

West Highland Terrier

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.

Canine

AGE

10 years

ULTRASONOGRAPHIC FINDINGS

Flattened, isoechoic adrenal glands.

WEIGHT

Benign hepatopathy with gallbladder polyps, may be induced by prednisone therapy.

12 lbs

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INTERPRETED BY

Given the breed predisposition to Addison's I recommend screening with baseline cortisol or ACTH stimulation. The adrenal glands may be suppressed by a prednisone therapy. However, Addison's cannot be completely ruled out. There is no evidence of clinical disease at this point.

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

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HOSPITAL NAME

Wellesley AH

REFERRING VET

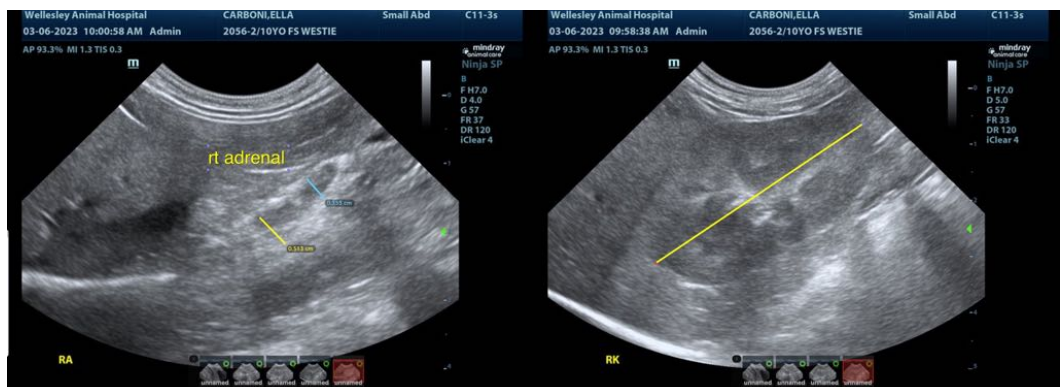
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West Highland Terrier

SEX

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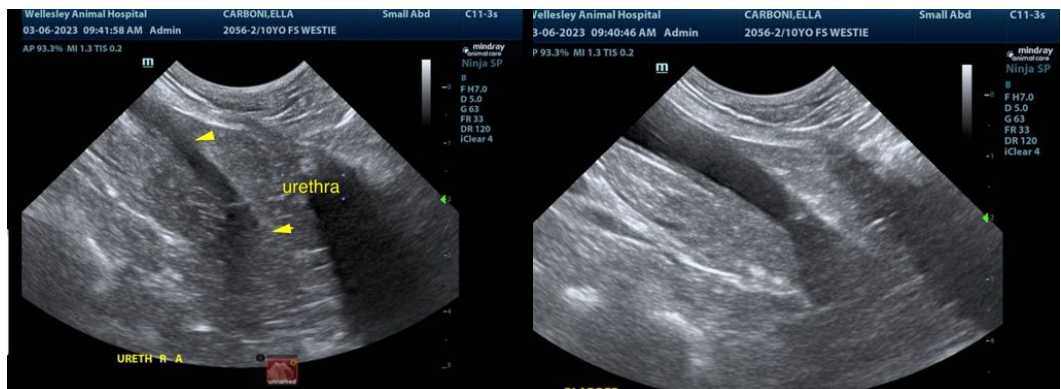
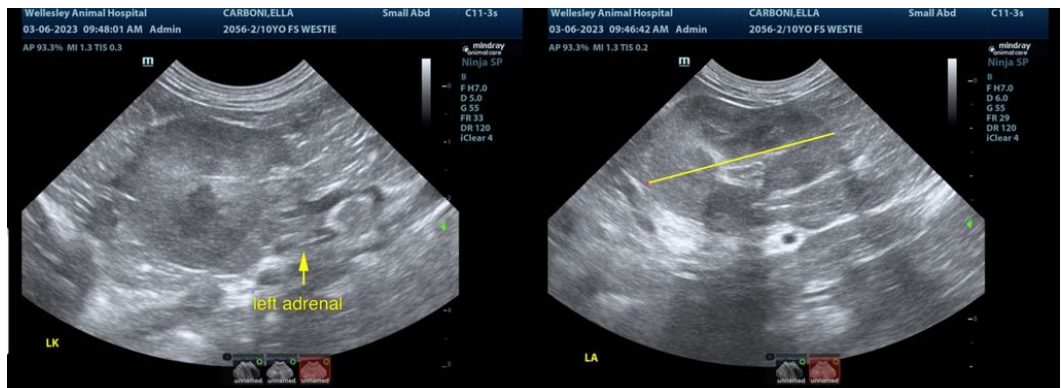
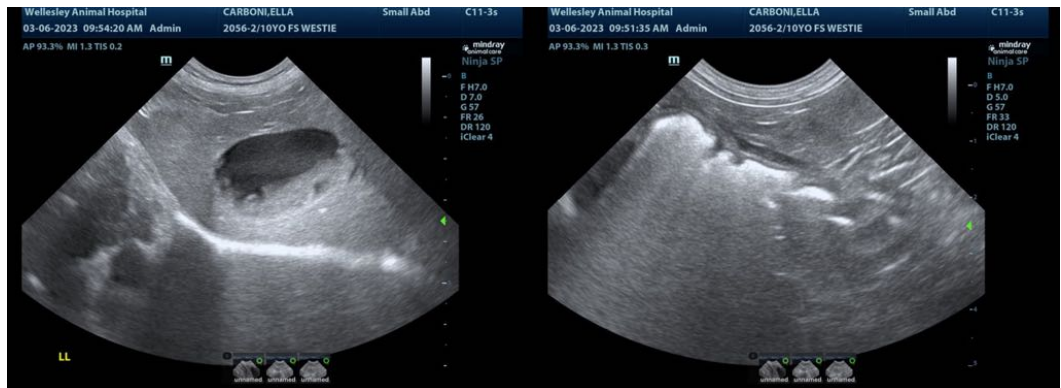
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

SPECIES

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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.

BREED

West Highland Terrier

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

SEX

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WEIGHT

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