



PATIENT

Olivia Belle

SPECIES

Canine

BREED

Maltese

SEX

Spayed Female

AGE

9 Years

WEIGHT

7.10

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Laurel Logas

HOSPITAL NAME

Bradentown VH

REFERRING VET

Laurel Logas

INVOICE

23540

DATE

7/20/23

PRESENTING CLINICAL SIGNS

History: 7-12-23 Presented for not eating or drinking much lethargic. History of meningitis treated with immunosuppressive dose. She was leaned off months later. 7-19-23 No improvement. Still no vomiting or diarrhea. Yesterday normal chest rads and ultrasound submitted and pet has lost 0.5lbs in 1 week.

Abnormal PE/Chem/CBC/UA Results: Normal neuro exam at this time. Normal CBC profile, UA, T4. Metacam for possible back pain and clindamycin for dental disease

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 left kidney measured 3.3 cm. The right kidney measured 3.5 cm.

Adrenal Glands

The **left adrenal gland** was visualized and recognized as having normal shape, 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 was subnormal in size, measuring 0.35 cm at the cranial pole and 0.3 cm at the caudal pole.

A mixed hypoechoic structure was noted in the region of the **right adrenal gland**. The structure measured 1.6 cm and appeared to be focally mineralized yet cystic. This is not a typical presentation for the right adrenal gland, however, normal right adrenal gland was not visualized.

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 **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.



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Gastrointestinal

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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 intestine demonstrated normal luminal chyme. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted. Soft stool was noted in the colon.

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Pancreas

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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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ULTRASONOGRAPHIC FINDINGS

- Age-related abdominal changes with hypoechoic heterogenous structure around the right adrenal gland
- Soft stool in the colon

AGE

9 Years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Serial blood pressures are warranted. If hypertension is present, then urine catecholamine is indicated. Recheck sonogram in 10-14 days for any progression of the structure in the area of the right adrenal. Full ACTH stimulation is warranted to rule out Addisons, given that the left adrenal gland was subnormal in size and given the vague clinical signs in this patient.

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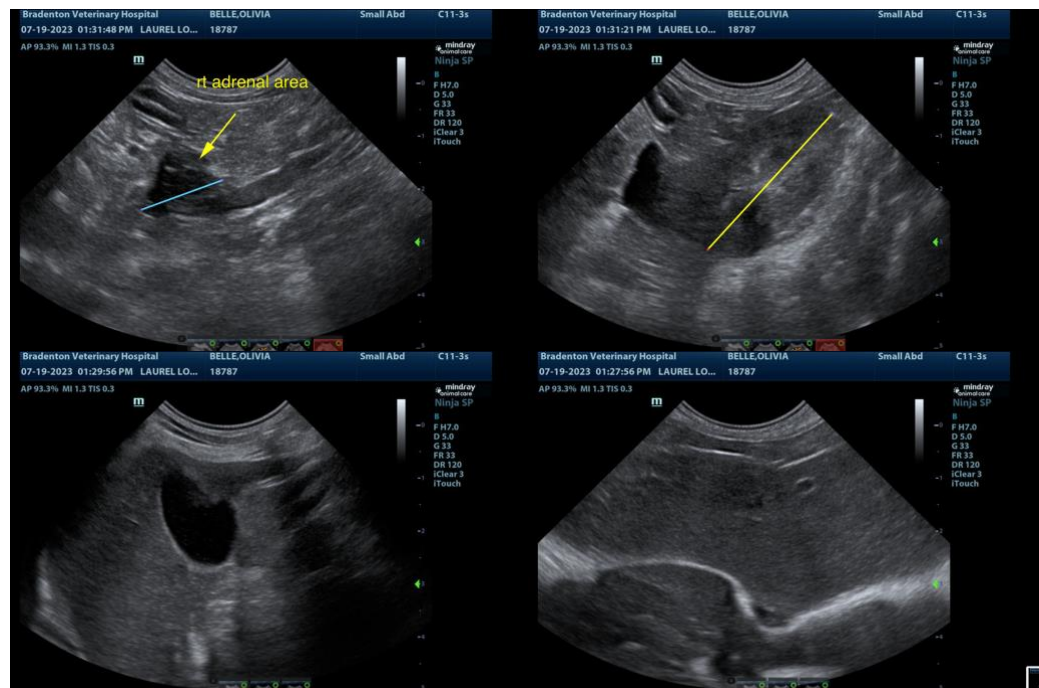
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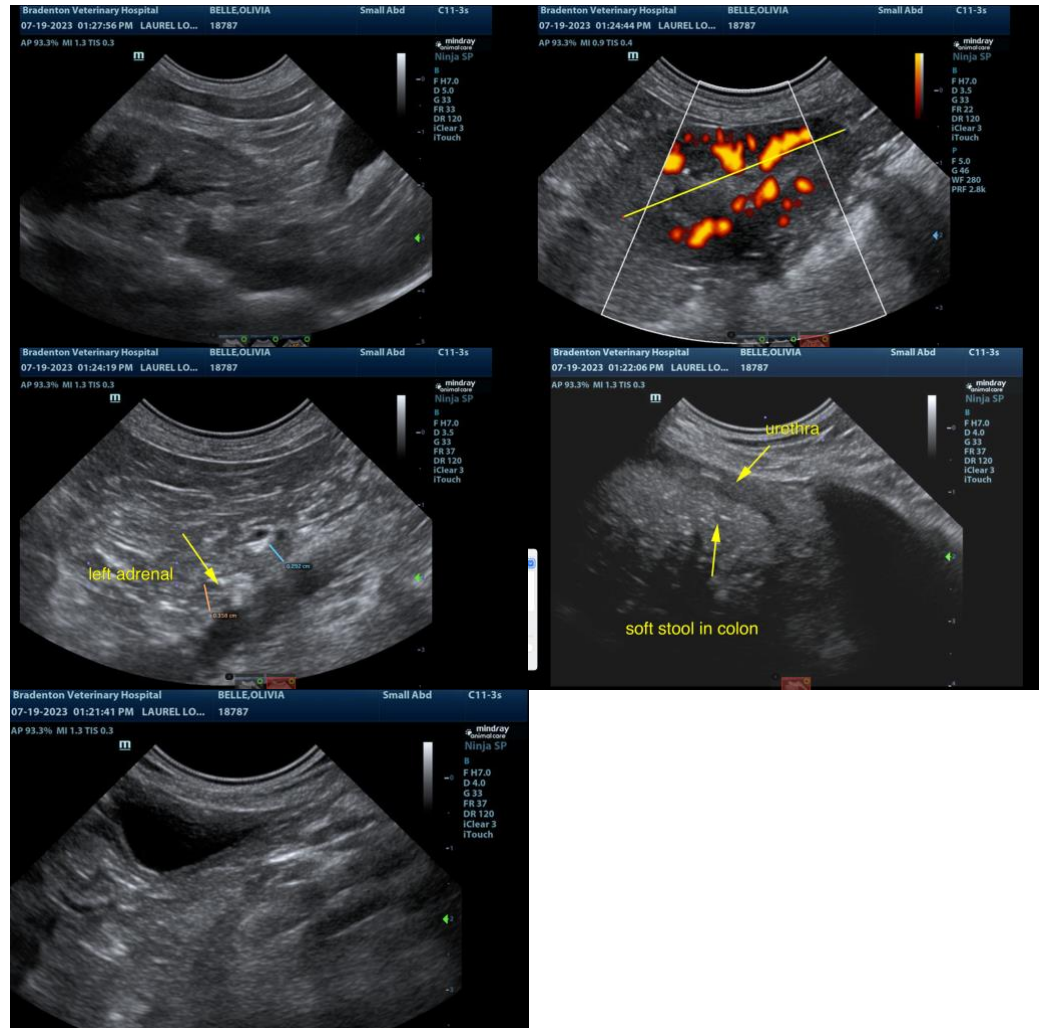
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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