



PATIENT PRESENTING CLINICAL SIGNS

Esmerelda Hoffman

Hematuria/urinating out of litter box in Jan 2023 Feb 2023 - off clavamox for 1 week and symptoms returned; unable to obtain urine. started enro X 20 days July 2023 C&S submitted; changed to marbofloxacin due to diarrhea August 2023 - still symptomatic; owner elected ultrasound Current meds: cosequin, CBD, Probiotic, D'manosse, zylkene, pets best urinary, prednisolone 5 mg BID, Royal canin urinary diet.

SPECIES

Feline

BREED

DSH

Abnormal PE/Chem/CBC/UA Results: Jan 2023 - CBC - WBC 22K; UA 4+ blood; rods noted; rads - no obvious calculi; interstitial pattern July 2023 - C&S - E. coli sensitive to all but amoxi drops; UA - blood, rods, 1+ protein

SEX

Spayed Female

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

AGE

17

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.

WEIGHT

11

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. Slight mineralization noted. The left kidney measured 3.37 cm. The right kidney presented slight hyperechoic enhanced surrounding fat, suggestive for inflammation. The right kidney measured 3.66 cm.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Adrenal Glands

IMAGING PERFORMED BY

Adrienne Waffle

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 0.52 cm. The right adrenal gland measured 0.40 cm.

HOSPITAL NAME

Bellaire AH

Spleen

REFERRING VET

Dr. Pantenburg

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.

INVOICE

44794

Liver

DATE

8/18/23

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some age-related parenchymal remodeling was noted but likely not clinically significant at this time. Vascular and biliary tracts were of normal volume and no evidence of congestion was noted. The gallbladder presented some dependent debris with essentially normal contour. The cystic and common bile ducts were normal. No overt evidence of active inflammatory,



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infiltrative or regenerative pathology was noted but should be paired with current or past LE elevations regarding any clinical significance to this presentation. The hepatic lymph nodes were unremarkable.

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Gastrointestinal

There was some residual chyme and gas was noted in the **stomach**, yet not pathological. This is consistent with end post prandial presentation, possible hairball accumulation. Transit of chyme into the small intestine was normal. Curvilinear patterns were maintained throughout the GI tract. No evidence of pathology. 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.

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Pancreas

The **pancreas** was hypoechoic and irregular with a nodular change.

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Free Abdomen

Lipomatous accumulation noted in the cranial abdomen, not pathological, measuring approximately 4.0 cm.

WEIGHT

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ULTRASONOGRAPHIC FINDINGS

- Chronic pancreatic changes, primarily in the left limb – likely nodular hyperplasia, potential for minor pancreatitis.
- Hairball density in the stomach
- Minor nephritis pattern with slight renal mineralization
- Lipomatous accumulation in the cranial abdomen
- Age related hepatic changes

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

It is possible that the patient recently passed a calculus, causing the hematuria. No obstructive disease noted at this time. However, a minor nephritis pattern is present. Left subxiphoid palpation warranted to assess for discomfort around the left pancreatic limb. Urine culture and sensitivity and treatment for UTI indicated, yet no evidence of significant disease. Largely expected changes for this age patient.

IMAGING PERFORMED BY

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REFERRING VET

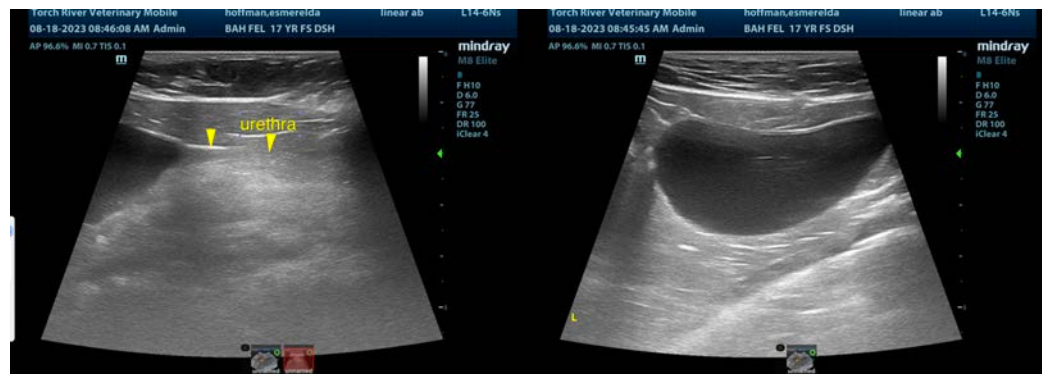
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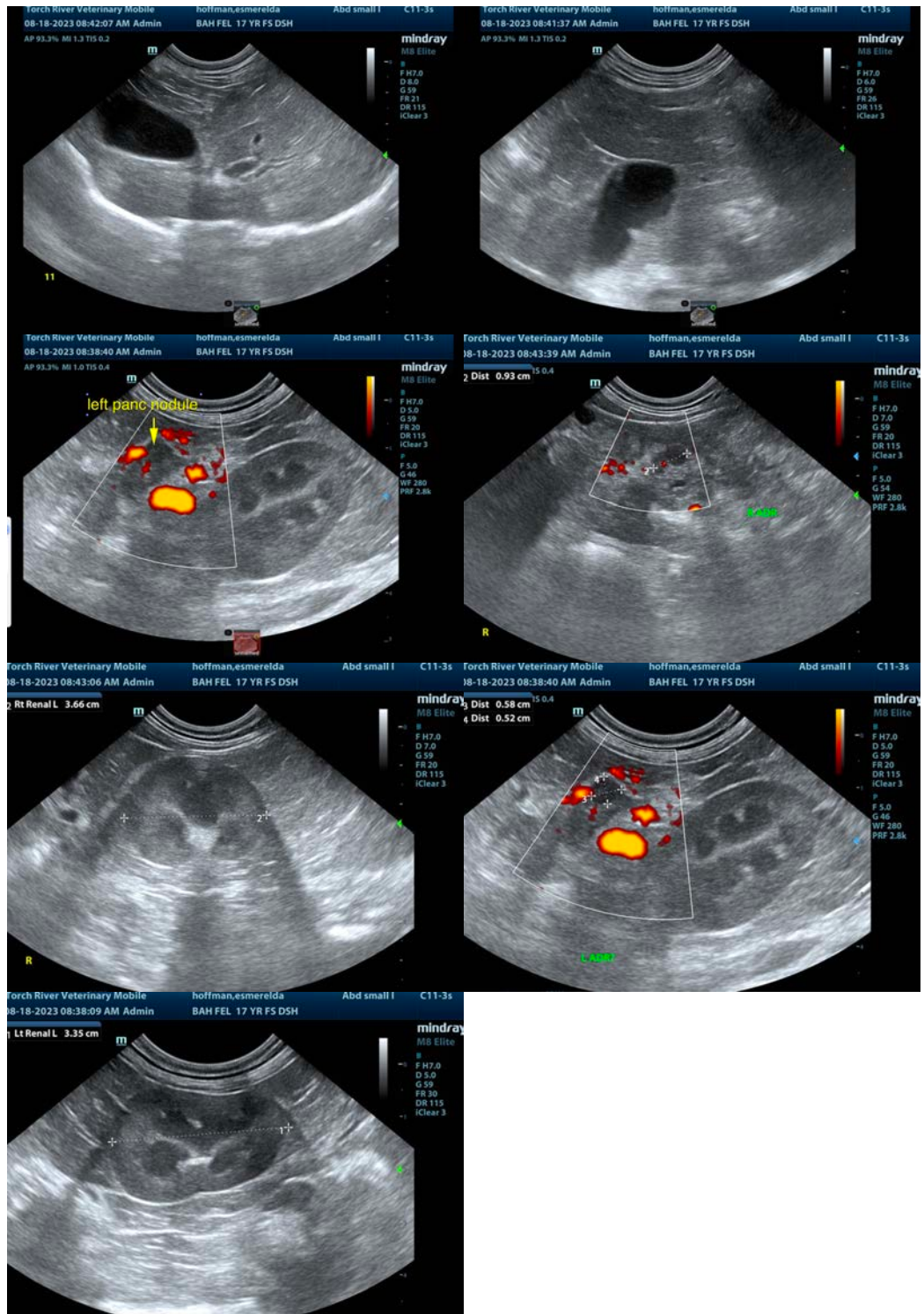
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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

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info@SonoPath.com

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