



PATIENT PRESENTING CLINICAL SIGNS

Twizler Wren

SPECIES

Rabbit

BREED

SEX

Neutered male

AGE

6 years

WEIGHT

5.42 kg

History: PRESENTED FOR: exam for not using the litterbox reliably and increased aggression. REPORTED SYMPTOMS: Owner reports that Twizler has been quicker to bite when touched off his midline and head. Owner also reports that Twizler has also been destroying the carpet. Possibly drinking more than usual. Urinating both in the litter box and on the carpet. First noticed about 3 weeks ago when I returned from an off-site rotation. My roommate was pet-sitting for me and when I returned his water was basically empty and full of food and hair. I have had to re-train him to the litter box before but have never had this much trouble. I currently use natures miracle urine destroyer and mark no more products to discourage the behavior which has always worked in the past. VITALS: 5.42 kg. Temperature: 101.0 degree F (99.1-102.9) Heart Rate: 260 (normal 130-325) Respiratory Rate: 120 (normal 30-60) Mucous Membrane Color: pink Capillary Refill Time: <2 CURRENT MEDICATIONS: Clean ears with otic solution sent home last night once weekly; Introduced Oxbow Joint Support Treats - 2 oxbow joint support tablets per day EXAM FINDINGS: No apparent pain on abdominal palpation. There is a mild hitch in the lateral slide. The maxillary clinical crowns are slightly long. No significant points. Otitis externa. Infected scent glands. LAB RESULTS: Ultrasound guided cystocentesis performed to obtain urine sample. Bladder contains echogenic urine (cells or crystals), normal wall thickness, with no evidence of bladder stone, or mass. Bladder contains a large amount of sludge. Urinalysis results reveal uro 2, glucose 250, pH of 8.0 and specific gravity of 1.005. Chemistry panel reveals slightly low albumin, elevated creatinine at 1.7. CBC results reveal a mild anemia and heterophilia. ASSESSMENT AND PLAN: The dilute urine with elevated creatinine supports kidney disease. Glycosuria with normoglycemia may indicate a renal issue. Abdominal ultrasound recommended ADDENDUM on 11/29/2022 at 16:50:27 from Agnes E. Rupley, DVM, ABVP I think I saw fluid in the thorax or pericardium while doing the abdominal ultrasound, so there are a few clips with the heart in view.

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. A moderate amount of debris. No evidence of inflammatory or neoplastic changes was 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. An anechoic cyst was noted in the cranial cortex of the left kidney measuring 0.5 cm. This is not pathological. Occasional cortical cyst was noted in the right kidney as well. The left kidney measured 4.42 cm. The right kidney measured 4.54 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 0.77 cm. The right adrenal gland measured 0.8 cm.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Rupley

HOSPITAL NAME

All Pets Medical Center

REFERRING VET

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INVOICE

42793

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PATIENT

Spleen

Twizler Wren

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.

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Liver

The **liver** revealed slightly increased portal markings and lobar biliary mineralization. The gallbladder and common bile duct were unremarkable. Pleural effusion was noted through the diaphragm with caudal lung consolidation. The visible heart appeared unremarkable.

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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.

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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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ULTRASONOGRAPHIC FINDINGS

IMAGING PERFORMED BY

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Unremarkable abdomen with bladder debris.

Undefined pleural effusion, likely non-cardiogenic.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

REFERRING VET

Dr. Rupley

Assessment for UTI is indicated. Investigation of the thorax with pleurocentesis, chest radiographs +/- chest CT would all be indicated.

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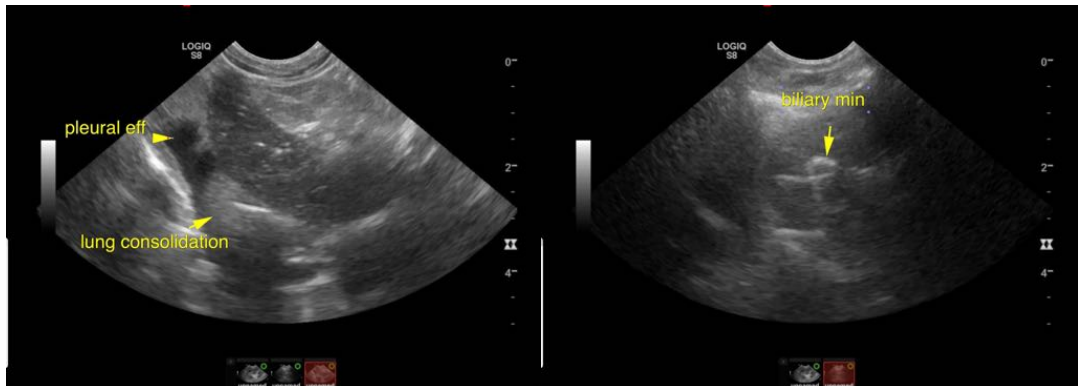
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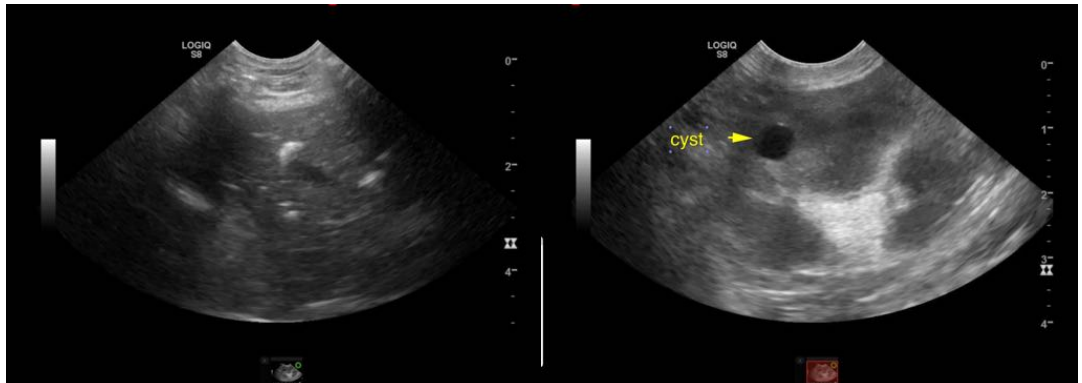
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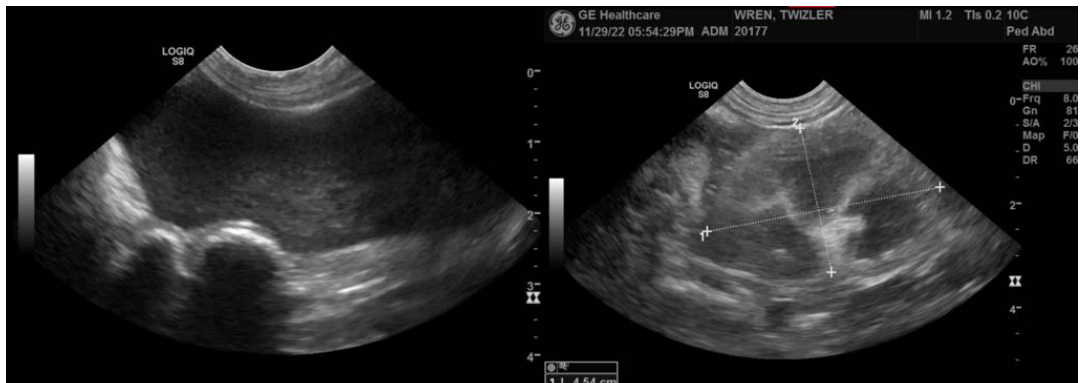
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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

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