



PATIENT PRESENTING CLINICAL SIGNS

Rex Fillis Recurrent hematuria.

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine **Urinary System**

BREED

Rhodesian Ridgeback

SEX

Neutered male

AGE

9 years

The **urinary bladder** presented a relatively uniform thickening of the cranioventral and craniodorsal mucosae with micropolypoid mucosal changes without involvement of the submucosae. The urine presented some echogenicity consistent with suspended debris. No evidence of urethral pathology was present. Apical wall thickness measured up to 2.0 cm. An apical polyp was noted in position of potential underlying urachal remnant with overlying polypoid hyperplasia. The hypertrophy and polypoid changes were localized to the mucosa. The submucosa, muscularis and serosa were intact. This is most consistent with chronic inflammation and hypertrophy. This presentation is most consistent with chronic cystitis. Technically transitional cell carcinoma cannot be ruled out without histopathological review but is not overtly suspected based on this pattern. Cystocentesis and urine culture +/- pathological review of urine cytology would be warranted. No overt calculi were present at this time.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

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 this age patient. Medullary structure differed distinctly from that of the cortex. The left kidney measured 7.6 cm with slight pyelectasia. The right kidney measured 8.02 cm.

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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 3.77 x 0.79 cm. The right adrenal gland measured 2.67 x 1.58 cm at the cranial pole and 0.8 cm at the caudal pole.

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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 was noted.

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Liver

The **liver** was uniformly swollen with minor, excessive gallbladder debris and over distension with dependent and suspended bile without evidence of overt mucocele formation. However, excessive sludge was present. The liver presented coarse architecture with mildly increased portal markings and subtle, mixed echogenic changes. Occasional, hypoechoic non-disruptive nodular changes were noted.



PATIENT This is consistent with vacuolar hepatopathy and some level of remodeling and history of inflammatory component. There was no overt suspicion of neoplasia.

Rex Fillis

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

Rhodesian Ridgeback

Pancreas

SEX

Neutered male

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.

AGE

9 years

ULTRASONOGRAPHIC FINDINGS

Severe chronic cystitis pattern with polypoid hyperplasia, possible underlying urachal remnant. This would necessitate resection of the apical half of the bladder for removal of the pathology. Likely polypoid cystitis with a mild potential for underlying carcinoma.

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Otherwise, geriatric abdomen with nodular hyperplasia liver pattern.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Cytospin of a free catch urine sample or ultrasound-guided traumatic catheterization would be indicated to assess for any carcinoma. There is no evidence of metastatic disease.

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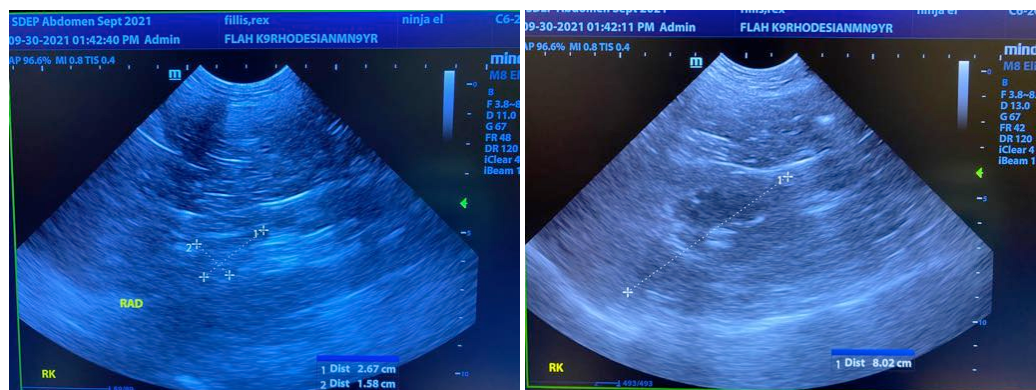
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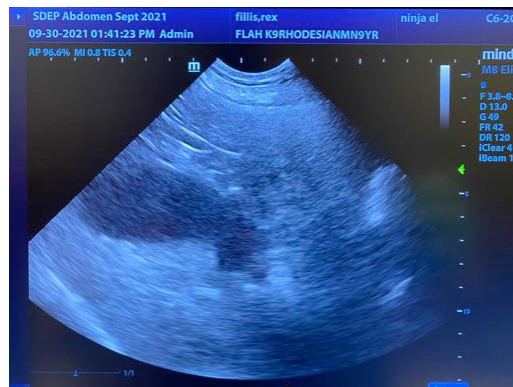
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PATIENT

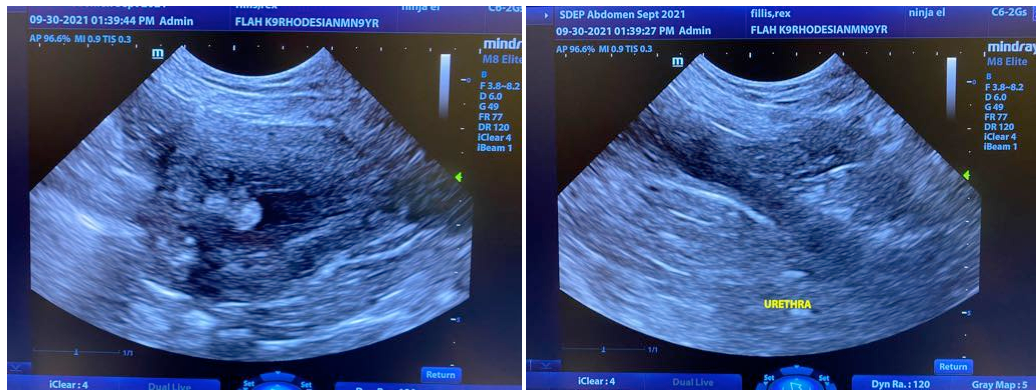
Rex Fillis

SPECIES

Canine

BREED

Rhodesian Ridgeback



SEX

Neutered male

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.

AGE

9 years

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.

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Eric Lindquist, DMV
DABVP, Cert. IVUSS

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

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