



PATIENT PRESENTING CLINICAL SIGNS

Layla Imhoff History: hematuria, hx of mast cell Current meds Cefpo Metro

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine **Urinary System**

BREED

Bulldog Mix

SEX

Spayed Female

AGE

10 years

WEIGHT

55 lbs

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. 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.

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 and no evidence of pelvic dilation was present. The left kidney measured 6.9 cm. The right kidney measured 5.73 cm.

Adrenal Glands

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jenn

The **adrenal glands** appeared slightly enlarged and swollen. No evidence of focal capsular expansion or invasion into the phrenic veins was noted. No overt suspicion of neoplasia was noted. This is considered likely a hyperplastic change associated with stress or adrenal endocrinopathy (PDH). If isosthenuria is persistently present and the patient morphologically suggests Cushing's disease then ACTH testing would be indicated. The right adrenal gland measured 2.86 x 1.09 cm at the caudal pole and 0.9 cm at the cranial pole. The left adrenal gland measured 3.38 x 0.88 cm at the caudal pole and 0.82 cm at the cranial pole.

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Rockaway AH

Spleen

The **spleen** was mildly enlarged and folded upon itself with subtle, micronodular changes.

REFERRING VET

Dr. Maniar

Liver

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. An anechoic cyst was noted at the caudal pole. 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, 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

SPECIES

Canine

A minor amount of non-shadowing, non-obstructive ingesta was noted in the **stomach**. 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.

BREED

Bulldog Mix

Pancreas

SEX

Spayed Female

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

10 years

ULTRASONOGRAPHIC FINDINGS

Geriatric abdomen with full stomach.

WEIGHT

55 lbs

Bilateral adrenal hypertrophy, no evidence of mast cell disease.

Chronic cystitis bladder pattern.

INTERPRETED BY

Eric Lindquist, DMV
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There was no obvious evidence of metastatic disease. If the patient appears Cushingoid then work-up for PDH is indicated given the bilateral adrenal enlargement. Work-up for UTI is indicated with culture and sensitivity if not already performed.

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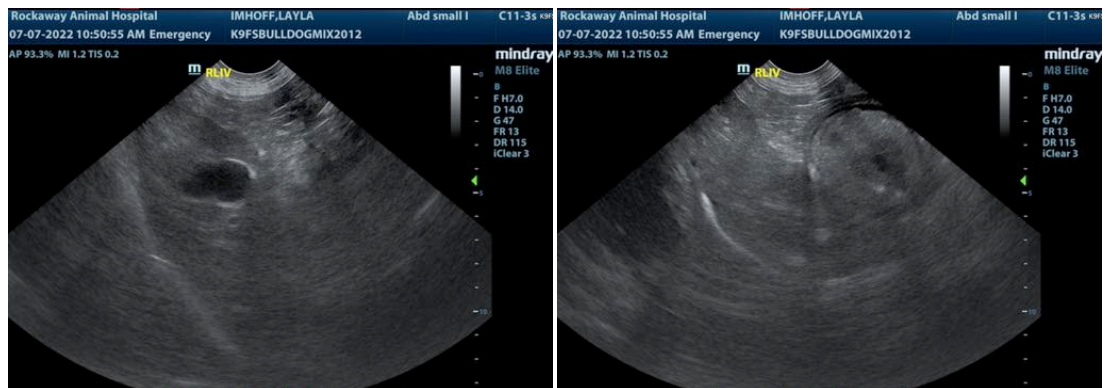
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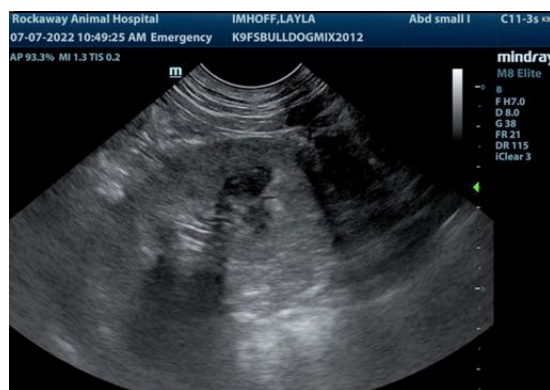
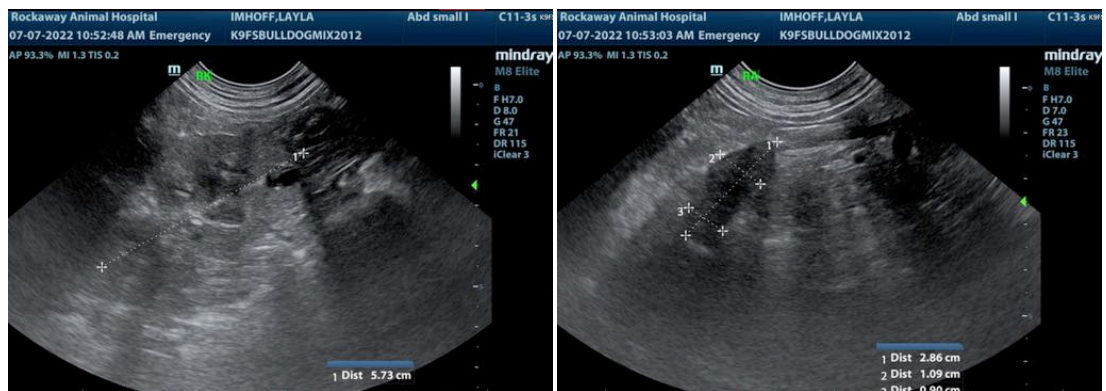
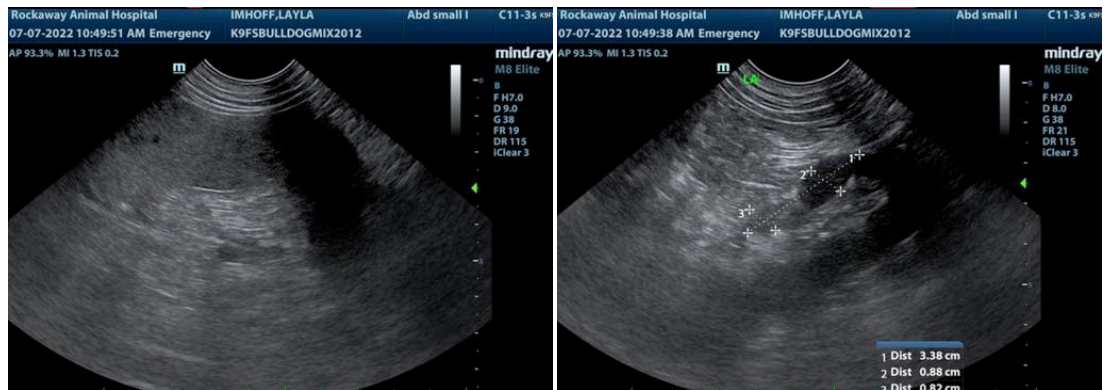
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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