



PATIENT

Coco Colucci

PRESENTING CLINICAL SIGNS

Chronic renal disease, anemia, weight loss.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

Yorkie

The **urinary bladder** revealed a minimal amount of urine at the time of the sonogram in pelvic position. Minor micropolypoid changes and mucosal remodeling was noted. The left ureter was dilated at a maximum of 0.63 cm at the level of the left renal pelvis tapering into the sublumbar area and followed to the bladder trigone where it was slightly dilated. No overt mass was noted. However, an early infiltrative process cannot be ruled out.

SEX

Spayed Female

AGE

13 years

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 3.27 cm with hydronephrosis that measured 0.85 x 1.0 cm. Blood flow to the left kidney appeared to be adequate to slightly subnormal. The right kidney measured 3.08 cm with irregular contour and focal mineralization.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Adrenal Glands

IMAGING PERFORMED BY

Eric Lindquist, DMV
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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 1.57 x 0.58 cm. The right adrenal gland measured 1.74 x 0.73 cm.

HOSPITAL NAME

Butler Vet

Spleen

REFERRING VET

Dr. Garro

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.

INVOICE

91084

Liver

DATE

8/10/21

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Variable heterogenous changes were noted in the liver with a hypoechoic nodule that measured 0.76 cm at the caudate process. 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



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with current or past LE elevations regarding any clinical significance to this presentation. The hepatic lymph nodes were 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.

BREED

Yorkie

SEX

Spayed Female

Pancreas

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Some parenchymal remodeling, however, with mild deviation from curvilinear normalcy was observed. Pancreatic duct and capsular irregularities were present consistent with age related changes. If pain upon imaging (+ Murphy sign) was present or if the patient is focally painful in subxiphoid palpation then low-grade smoldering chronic pancreatitis should be suspected.

AGE

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Free Abdomen

Slight free fluid was noted around the sublumbar region as the left ureter tapered.

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ULTRASONOGRAPHIC FINDINGS

Moderate degenerative right renal changes.

Moderate to severe left renal changes with hydronephrosis and hydroureter.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The patient may have recently passed calculus causing the current presentation. I recommend 72 hour IV fluid protocol, injectable antibiotics and a recheck sonogram in 1 week after azotemia has been resolved.

REFERRING VET

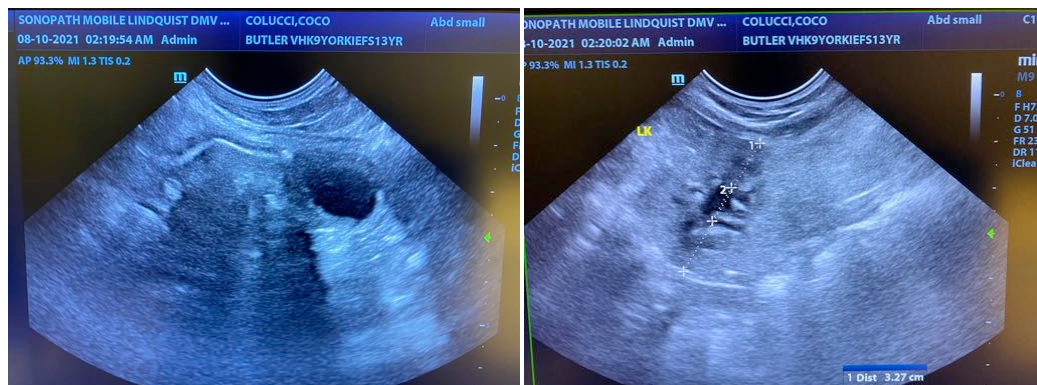
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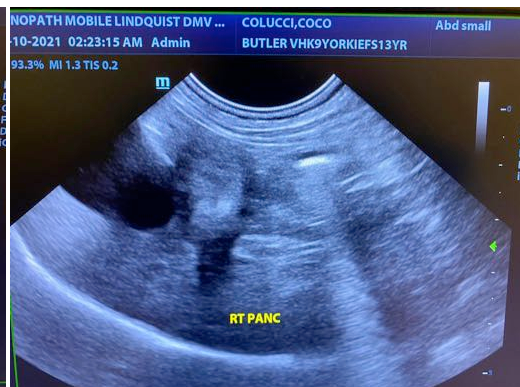
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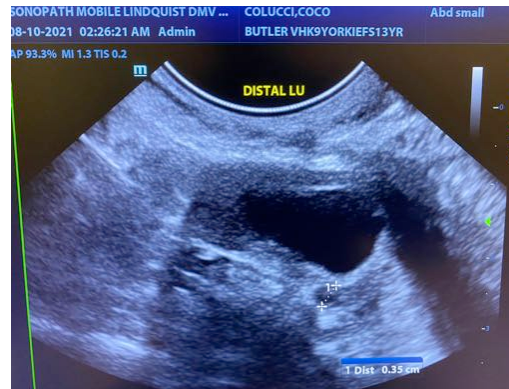
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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