

PATIENT PRESENTING CLINICAL SIGNS

Coco Raschio History: lethargy Radiographic Findings enlarged spleen Possible tubular structure consistent in ventral, caudal abdomen - cannot rule out pyometra

SPECIES

Abnormal PE/Chem/CBC/UA Results: wbcs 20,000 PCV 31% ALP 436 Lipase 3,424

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Urinary System

Pomeranian Mix

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted. The uterus exhibited segmental to generalized mild fluid dilation. The fluid within the uterus was subjectively anechoic.

SEX

Female

AGE

Aortic trifurcation was normal.

13 Years

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some moderate increased echogenicity and loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 3.6 cm in length. The right kidney measured 3.7 cm in length. Non-obstructive areas of medullary mineralization were present in both kidneys.

WEIGHT

5 Pounds

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

Adrenal Glands

The bilateral adrenal glands were normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 1.7 cm length x 0.78 cm width in the caudal pole. The right adrenal gland measured 1.7 cm length x 0.58 cm width in the caudal pole.

IMAGING PERFORMED BY

Heidi Putnam

Spleen

The spleen presented generalized enlargement with reduced echogenicity and coarse echotexture. The capsule contour was rounded and asymmetrical or scalloped. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. Coalescing nodular mass lesions were present, an example of a splenic mass lesion measured 6.0 x 3.0 cm. Evidence of perisplenic reactive mesentery was present.

HOSPITAL NAME

Santa Clara AH

REFERRING VET

Dr. Brian Zulauf

Liver

The liver was subjectively normal in size. The hepatic parenchyma revealed diffuse reduced echogenicity compared to the spleen and renal cortical parenchyma with a mild coarse echotexture. Increased portal vein prominence was evident. The capsule of the liver was normal in margination. Distinct masses or nodules were not evident. The hepatic and portal vasculature were normal in appearance. The gallbladder was non-distended in size with moderate non-dependent yet non-organized echogenic gallbladder debris. The cystic and common bile ducts were normal.

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Gastrointestinal



PATIENT	The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with mild luminal gas. No signs of ileus, obstruction or foreign material.
Coco Raschio	
SPECIES	The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material. Intermittent non-specific mucosal speckling noted which may indicate age-related small intestinal mucosal changes with potential for mild enteritis.
Canine	
BREED	Normal visible colon wall layers were present with apparent formed feces in lumen.
Pomeranian Mix	
SEX	Pancreas The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.
Female	
AGE	Free Abdomen No evidence of effusion or overt lymphadenopathy.
13 Years	
WEIGHT	Heart A transdiaphragmatic view of the heart revealed no overt evidence of pericardial effusion or masses.
5 Pounds	
INTERPRETED BY	ULTRASONOGRAPHIC FINDINGS
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	Primary Findings <ul style="list-style-type: none"> • Infiltrative splenomegaly with potential coalescing mass lesions • Subjective mild hypoechoic liver • Mild segmental to generalized uterine fluid distention- consistent with pyometra, hydrometra or similar
IMAGING PERFORMED BY	Secondary Findings <ul style="list-style-type: none"> • Bilateral chronic renal changes with non-obstructive medullary mineralization • Moderate gallbladder debris- potential early mucocele • Possible mild enteritis
Heidi Putnam	
HOSPITAL NAME	INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS
Santa Clara AH	The presentation of the spleen is consistent with neoplasia such as lymphoma, mast cell neoplasia, sarcoma or other. The liver may indicate benign or reactive hepatic parenchymal changes. However, the possibility of early hepatic neoplasia cannot be definitively excluded. Assuming normal clotting status, hepatosplenic FNA using a 25-gauge needle maybe considered with potential for oncology consult. No other evidence of overt intraabdominal metastasis noted. 3 view chest radiographs recommended to assess for thoracic pathology. If no evidence of hepatic involvement, splenectomy along with ovariohysterectomy could be considered, ideally, based on oncology consultation. However, an overall very guarded to potentially unfavorable long-term prognosis is indicated.
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PATIENT

Coco Raschio

SPECIES

Canine

BREED

Pomeranian Mix

SEX

Female

AGE

13 Years

WEIGHT

5 Pounds

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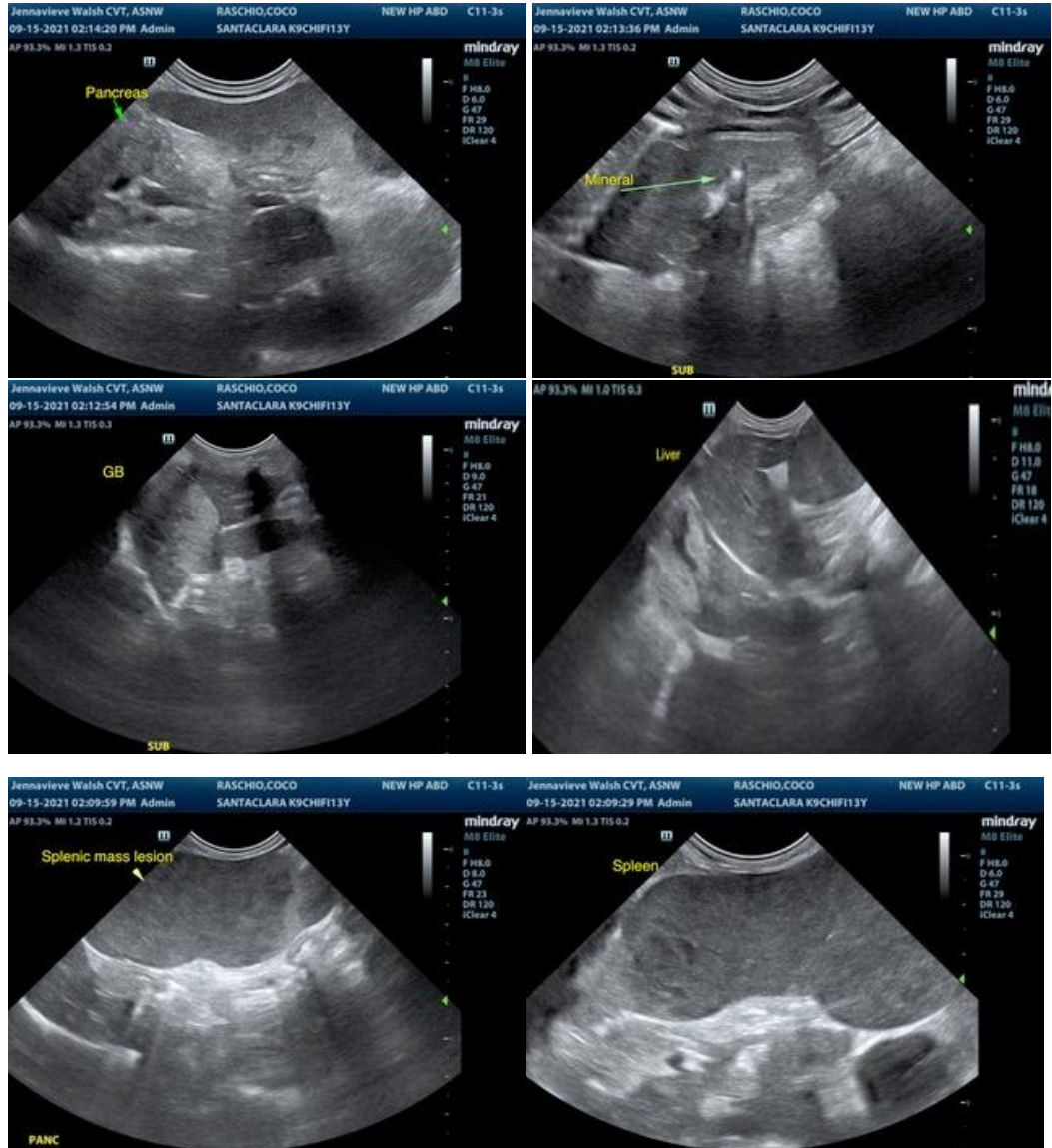
Dr. Brian Zulauf

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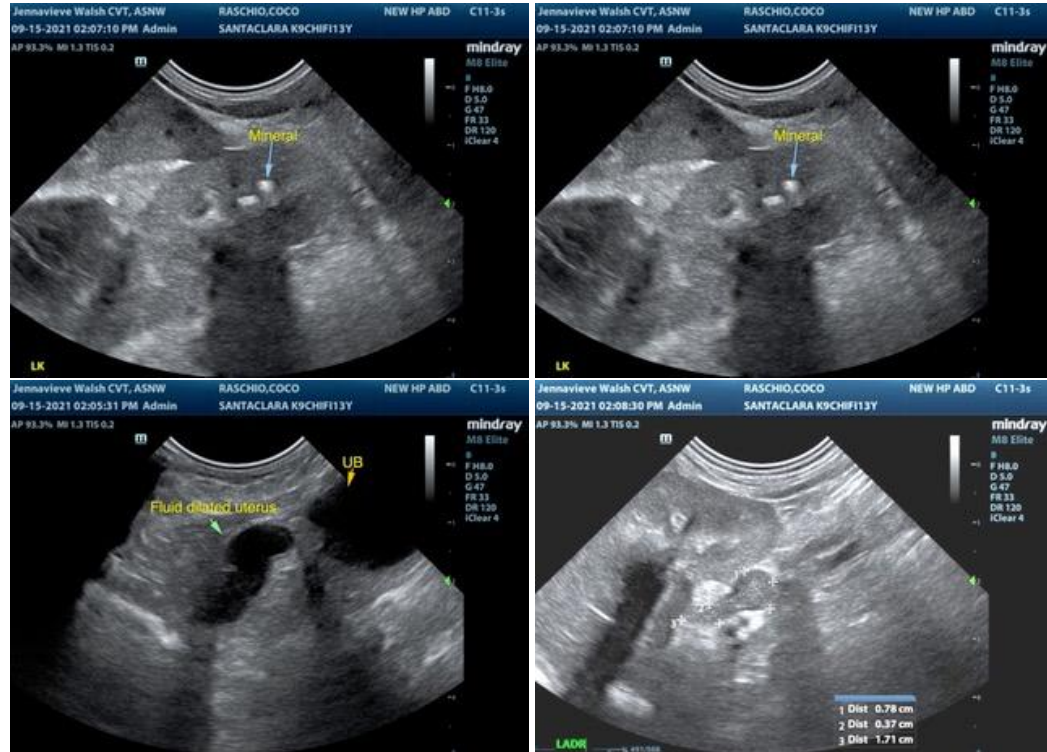
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
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