



PATIENT

Maurice Rodriguez

PRESENTING CLINICAL SIGNS

History: Belly enlarged/burping/pacing

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

Pitbull

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

SEX

Neutered male

The prostate was mildly enlarged and slightly irregular measuring 2.6 cm with heterogenous, hypoechoic parenchymal changes with focal areas of mineralization. Areas of fibrosis or remodeling was noted. This would be normal for a patient that was neutered late with prostatitis.

AGE

12 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 his age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. The left kidney measured 5.55 cm. The right kidney measured 6.4 cm.

WEIGHT

53 lbs

Adrenal Glands

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Both **adrenal glands** were visualized and recognized as having largely normal shape, size, position and acceptable echogenicity for this age group and breed. Some heterogeneity was noted within the adrenal parenchyma without concerning capsular distortion. These changes are likely age related but should be monitored by sonogram should the patient be suspected of having adrenal disease. The left adrenal gland measured 1.94 x 0.45 cm at the cranial pole and 0.51 cm at the caudal pole. The right adrenal gland measured 2.6 x 1.2 cm at the cranial pole and 0.42 cm at the caudal pole.

IMAGING PERFORMED BY

Valeryia Shumskaya

HOSPITAL NAME

Rockaway AH

Spleen

The **spleen** was largely smooth with subtle heterogeneous parenchymal changes while maintaining normal echogenic relationship to the liver and kidney. These changes are consistent with normal age-related alteration. The capsule was smooth without noticeable impingement from within the spleen or from pathology in the adjacent abdomen. The splenic vasculature demonstrated normal volume without signs of congestion or significant contraction. No evidence of active acute or chronic inflammatory, neoplastic, or infarctual changes was noted.

REFERRING VET

Dr. Maniar

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Liver

The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic

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lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.

Gastrointestinal

SPECIES
Canine

The upper **gastrointestinal tract** was unremarkable and the colon was empty in this patient at the time of the sonogram with a 4.0 cm shadowing foreign body noted in the jejunum with regional fluid filled intestine. Reactive mesentery was noted.

BREED
Pitbull

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
12 years

ULTRASONOGRAPHIC FINDINGS

Enlarged, irregular prostate with areas of mineralization, this would be normal if the patient was neutered late with prostatitis.

WEIGHT
53 lbs

Shadowing foreign body in the jejunum with regional fluid filled intestine.

Reactive mesentery.

INTERPRETED BY

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Areas of fibrosis or remodeling was noted in the prostate. This would be normal for a patient that was neutered late with prostatitis. However, I cannot completely rule out the potential for emerging carcinoma. If straining to urinate is an issue then FNA is indicated. Exploratory surgery is warranted with intestinal biopsies and evacuation of the jejunum.

IMAGING PERFORMED BY

Valeryia Shumskaya

According to SonoPath research presented at ECVIM 2016 (Stockholm, Sweden), Advances in Small Animal Medicine and Surgery (May 2017), and EVDI 2017 (Verona, Italy), concurrent underlying chronic inflammatory neoplastic intestinal disease can often reside in PICA patients. Therefore, surgical biopsies are essential in this case regardless of the exploratory findings.

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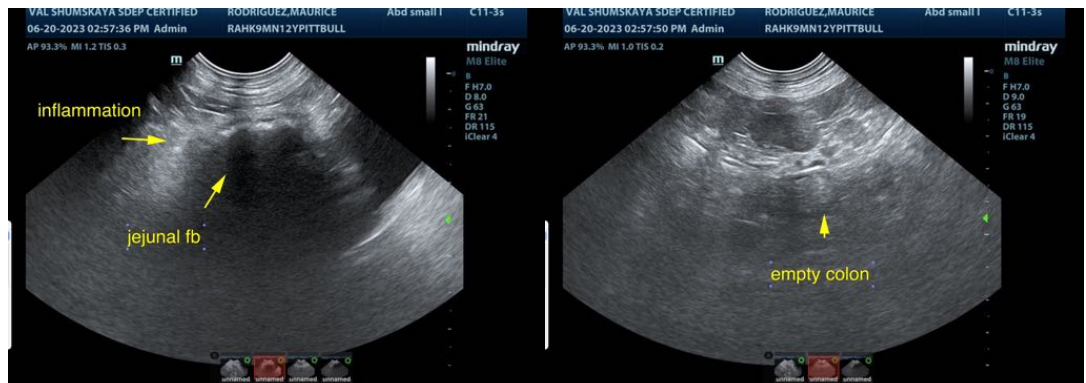
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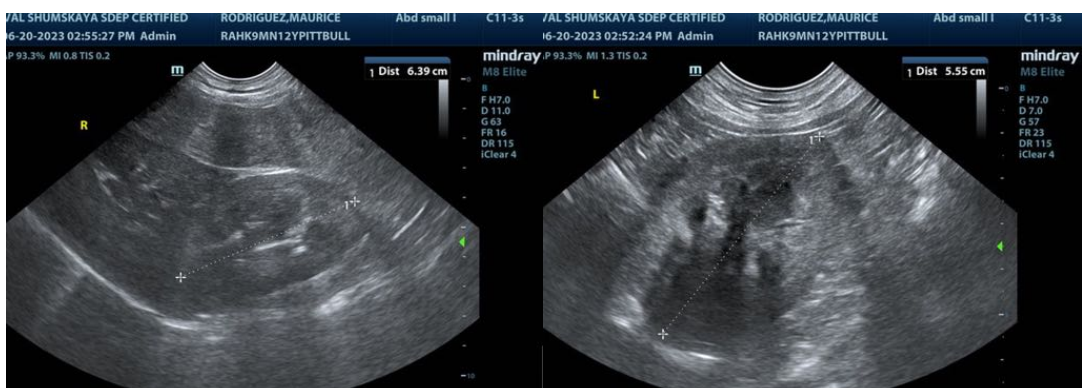
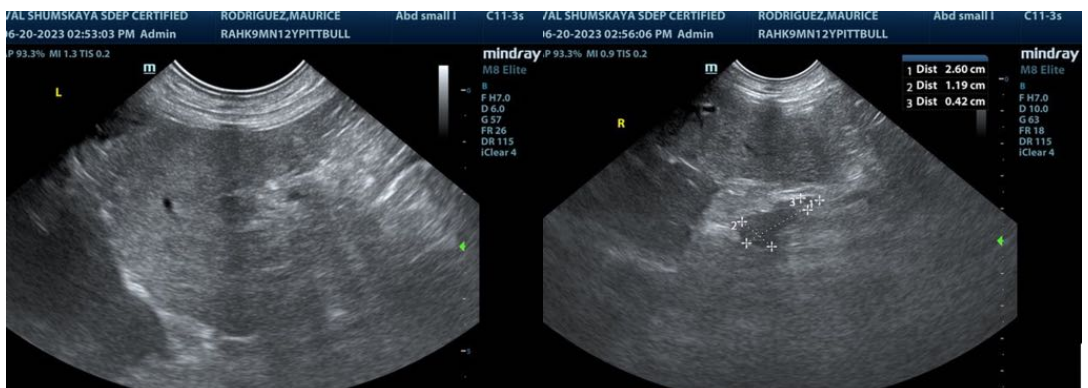
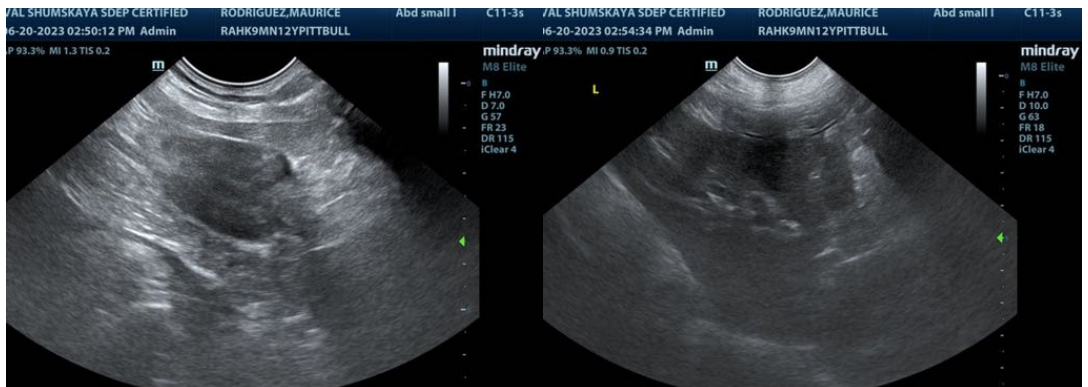
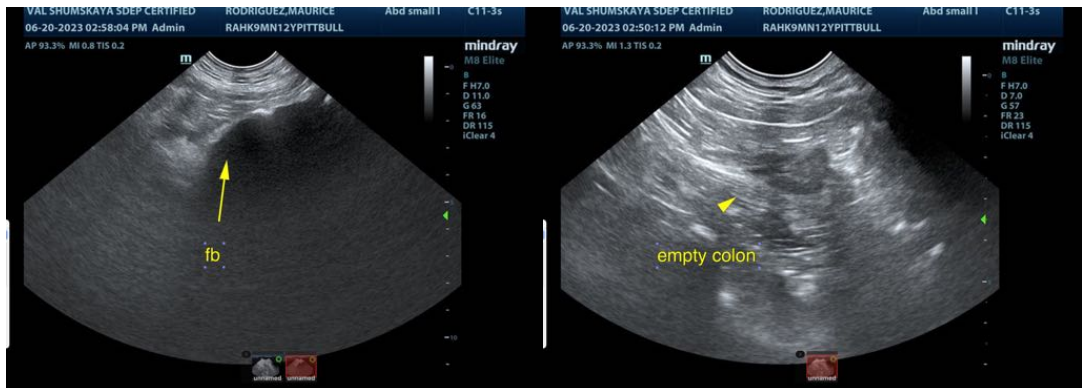
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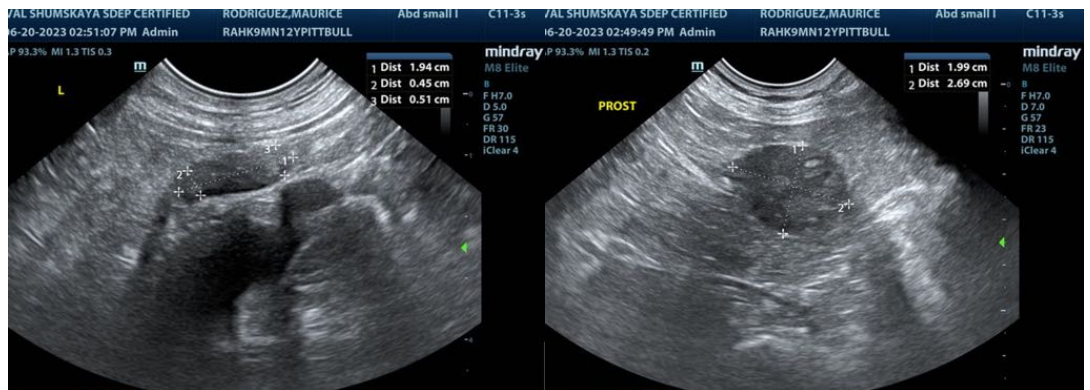
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS
info@SonoPath.com