



PATIENT PRESENTING CLINICAL SIGNS

PATIENT Freya Aikey
SPECIES Canine
BREED Pitbull Terrier
SEX Female
AGE 4 years
WEIGHT 48 lbs

PRESENTING CLINICAL SIGNS
 History: Possible pyometra - PU/PD, lethargic, eating less, intact, heat cycle stopped abruptly, came into AEM on 8/10 for vomiting and lethargy
 Abnormal PE/Chem/CBC/UA Results: WBC 30.9, Neut 26,571 w/ moderate toxic change, monocytes 1854, TP 7.6, Globulin 4.3

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

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 **uterus** in this patient was severely dilated and measured up to 4.0 cm in width with echogenic fluid. This is strongly consistent with pyometra.

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The left kidney measured 7.7 cm. The right kidney measured 7.92 cm.

INTERPRETED BY

Eric Lindquist, DMV
 DABVP, Cert. IVUSS

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 2.03 x 0.52 cm at the caudal pole and 0.4 cm at the cranial pole.

IMAGING PERFORMED BY

Jessica Miller, RDMS

HOSPITAL NAME

Newton VH

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.

REFERRING VET

Dr. Kim

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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.

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Gastrointestinal

Canine

Examination of the **gastrointestinal tract** revealed gastric stasis. The small intestines had 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.

BREED

Pitbull Terrier

Pancreas

SEX

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.

Female

AGE

4 years

Free Abdomen

The iliac lymph node was reactive and measured 1.5 x 0.6 cm.

WEIGHT

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ULTRASONOGRAPHIC FINDINGS

INTERPRETED BY

Large pyometra.

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Chronic cystitis bladder pattern.

Gastric stasis is present owing to metabolic ileus.

IMAGING PERFORMED BY

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Jessica Miller, RDMS

Immediate exploratory surgery is recommended with ovariectomy. Plasma expanders are warranted.

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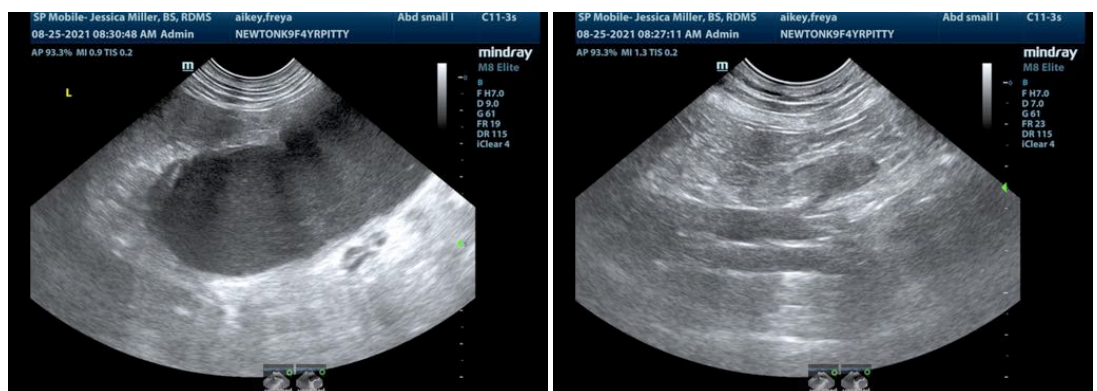
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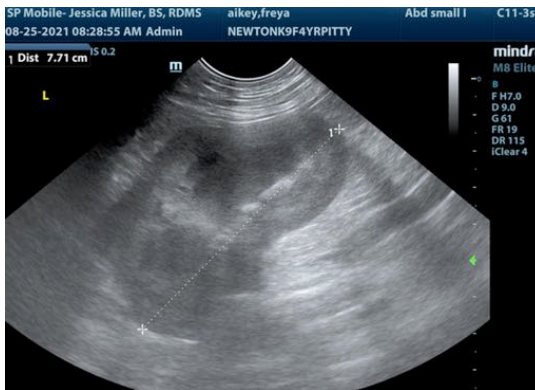
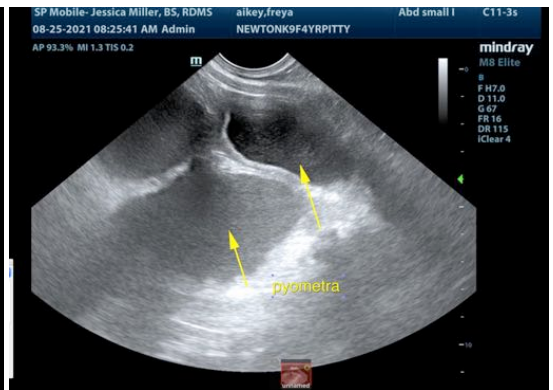
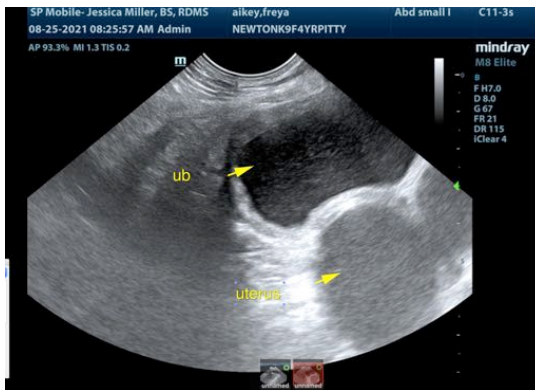
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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