



PATIENT

Karma Malis

SPECIES

Canine

BREED

Shih Tzu

SEX

Female

AGE

2015

WEIGHT

6.52 Pounds

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Denise Bruno, LVT,
RDMS

HOSPITAL NAME

Farview Animal Clinic

REFERRING VET

Dr. Mosaad

INVOICE

44990

DATE

2/9/23

PRESENTING CLINICAL SIGNS

Possible Pyometra; acts like she is going into "Heat" but doesn't produce blood. Mildly distended abdomen.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder is moderately distended with anechoic contents. No masses, inflammatory changes, echogenic sediment or cystoliths are observed. The urinary bladder, trigone and visible pelvic urethra are normal in thickness with a smooth mucosal surface.

The right kidney is normal in size (3.46 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia or infarcts observed. Multiple small non-obstructive nephroliths are noted.

The left kidney is normal in size (2.77 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia or infarcts observed. Multiple small non-obstructive nephroliths are noted.

Adrenal Glands

Adrenal glands are largely normal in size, shape and contour. Some parenchymal heterogeneity is present without concerning capsular distortion. These changes are likely normal for this age but should be monitored if there is any suspicion of adrenal disease. The left adrenal gland measures 1.21 cm long x 0.31 cm at the cranial pole and 0.55 cm at the caudal pole. The right adrenal gland measures 1.66 cm long x 0.40 cm at the cranial pole and 0.40 cm at the caudal pole.

Spleen

The spleen is subjectively normal in size with a normal smooth capsular contour. Parenchyma is appropriately finely textured and homogenous with normal echogenicity relative to surrounding tissue (hyperechoic to liver). No focal nodules or masses are observed. Splenic vasculature appears normal.

Liver

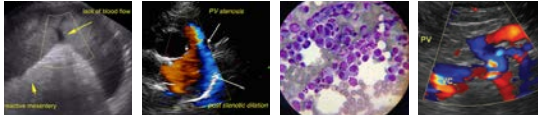
The liver is subjectively normal in size with normal smooth curvilinear peripheral contour. Parenchyma is appropriately hypoechoic to the spleen in echogenicity and appropriately mildly coarse and homogenous in echotexture. No focal lesions are observed. Visible vasculature and biliary tree appear normal without distension or congestion.

The gallbladder is non-distended in size. The wall is smooth without visible thickening. Luminal contents are primarily anechoic. There is no evidence of cystic or common bile duct dilation.

Gastrointestinal

The stomach wall is normal in thickness (canine < 0.5 cm and feline < 0.4 cm) and layering. The lumen of the stomach is mild to moderately fluid distended with no evidence of obstruction, foreign material or infiltrative disease. Pyloric outflow tract appears patent.

The visible small intestines are normal in wall thickness and layering (canine duodenum < 0.5 cm and feline duodenum < 0.4 cm; other < 0.3 cm). Small intestinal motility appears adequate (1-3 contractions per min). The lumen of the small intestine is empty with no evidence of obstruction, foreign material or infiltrative disease.



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The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.

Karma Malis

Pancreas

SPECIES

The pancreatic parenchyma is appropriately isoechoic to surrounding tissue. Visible capsule is smooth and normal in contour. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.

Canine

BREED

Free Abdomen

Shih Tzu

There is no evidence of free peritoneal effusion noted in these images.

SEX

There is no apparent lymphadenopathy noted in these images.

Female

Both ovaries have anechoic structures associated with them, consistent with follicles or potentially cystic ovaries. The uterus is diffusely markedly overdistended with fluid and some echogenic appearing debris, the right horn being more affected than the left.

AGE

PRIMARY FINDINGS

2015

- Markedly fluid distended uterus, concerning for pyometra versus possibly hydrometra with bilaterally cystic ovaries.

WEIGHT

SECONDARY FINDINGS

6.52 Pounds

- Multiple small non-obstructive nephroliths bilaterally

INTERPRETED BY

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Beth Johnson, DVM
DACVIM

Recommendations include an ovariohysterectomy as soon as possible, if possible. Given the lack of significant clinical illness described in this patient's history, an emergency surgery for a closed pyometra may not be indicated, but there is concern that it could develop rapidly if not already in place.

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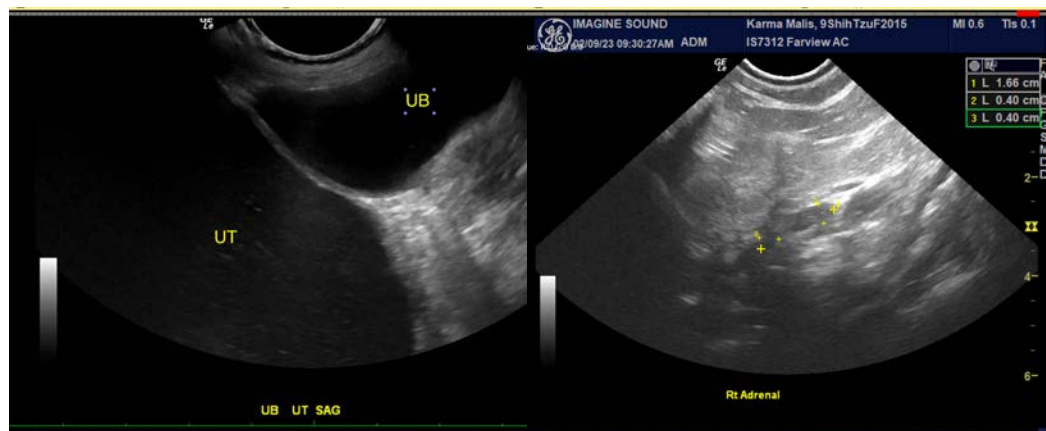
Dr. Mosaad

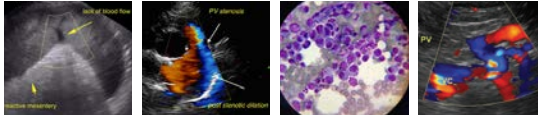
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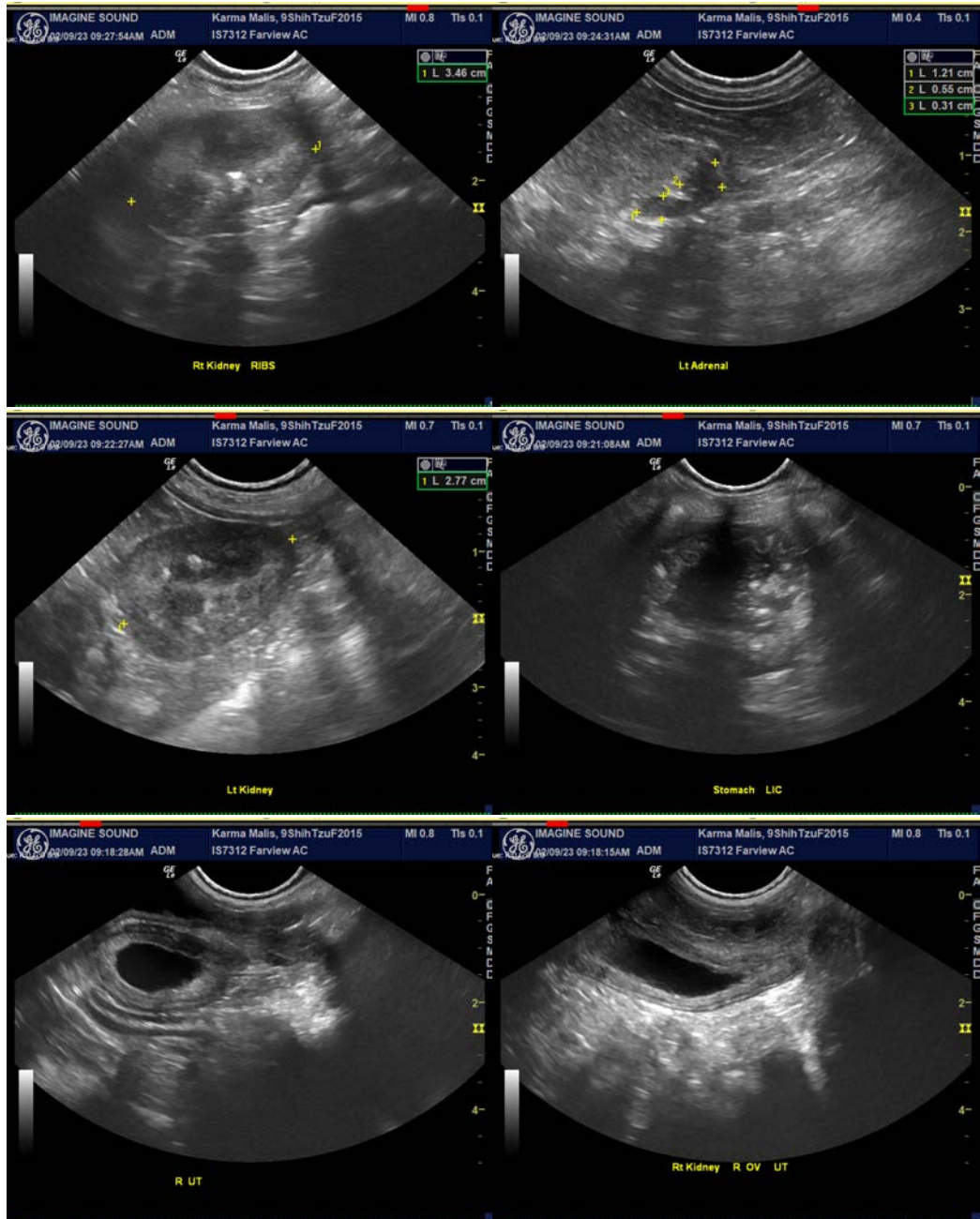
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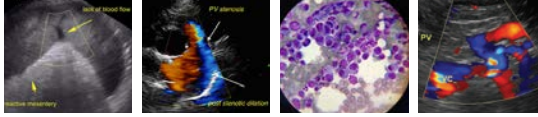
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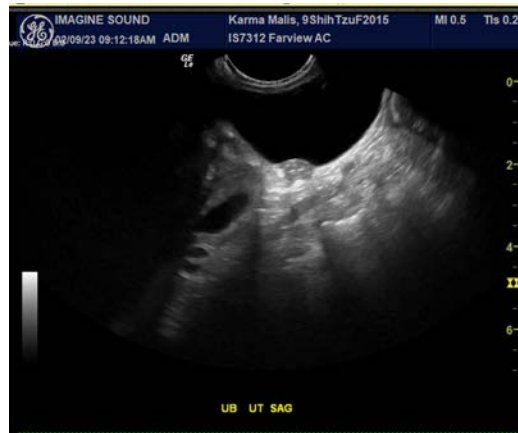
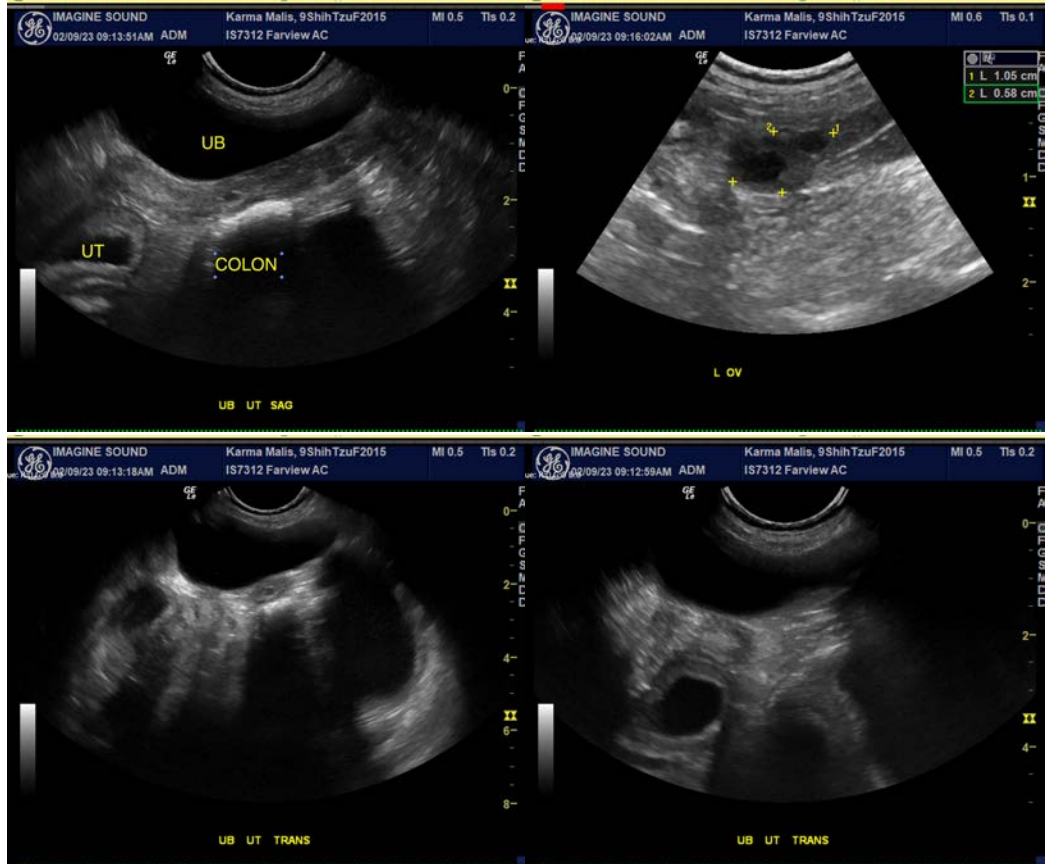
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Beth Johnson, DVM, DACVIM
Beth.Johnson@sonopath.com