



PATIENT **PRESENTING CLINICAL SIGNS**

Gig Rohrich History: Pet presented 07/10/23 stating pet has been in heat for ~3 weeks with little discharge, pet crying in pain and chasing her tail and decreased appetite since 07/09/23, suspect UTI causing pain, suspect pet close to ovulating. 07/11/23- pet represented still having inappetence and still painful, pet V+ and having D+, Ddx=intermittent intense abdominal pain/tail biting suspect- ovary/heat cycle, kidney/bladder infection +/- stones, struvite crystalluria 07/12/23- pet in for partial ultrasound to evaluate pain

SPECIES
Canine

BREED **ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

Shih Tzu

Urinary System

SEX

Female

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.

AGE

8 months

The right ovary revealed multi-focal cysts noted that measured up to 1.2 cm. Slight free fluid was noted around the right ovary, a ruptured ovarian cyst may have occurred. The left uterine horn was uniform and measured 0.54 cm. The left ovary was cystic and measured 0.8 cm. The uterine body measured 0.55 cm. No fluid filled dilation was noted.

WEIGHT

11.54 lbs

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 3.41 cm. The right kidney measured 4.0 cm.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Adrenal Glands

IMAGING PERFORMED BY

Dr. Anleu

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.

HOSPITAL NAME

Cranberry holistic Pet
Care

Spleen

REFERRING VET

Dr. Maro

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

76122

Liver

DATE

7/12/23

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



PATIENT

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

Gig Rohrich

SPECIES

Gastrointestinal

Canine

Examination of the **gastrointestinal tract** revealed an unremarkable stomach and small intestine regarding structure. There were minor areas of luminal fluid noted. There was no evidence of obstructive pattern. Curvilinear patterns were retained throughout the gastrointestinal tract. Areas of hyperperistalsis were noted. This is consistent with response to irritation. The colon was unremarkable.

BREED

Shih Tzu

Pancreas

SEX

Female

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

8 months

ULTRASONOGRAPHIC FINDINGS

Cystic ovaries, empty uterus.

WEIGHT

11.54 lbs

Free fluid around the right ovary. Rupture of an ovarian cyst may have occurred.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

There was no evidence of pregnancy in this patient. If this patient is not destined for reproductive activity then ovariohysterectomy is recommended. Supportive care should prove effective. Screening for congenital Addison's is warranted given the vague clinical signs and the adrenal glands were not overtly visible. Dietary indiscretion, food intolerance, structurally significant inflammatory bowel or occult parasitism and occult Addison's are all potentials.

IMAGING PERFORMED BY

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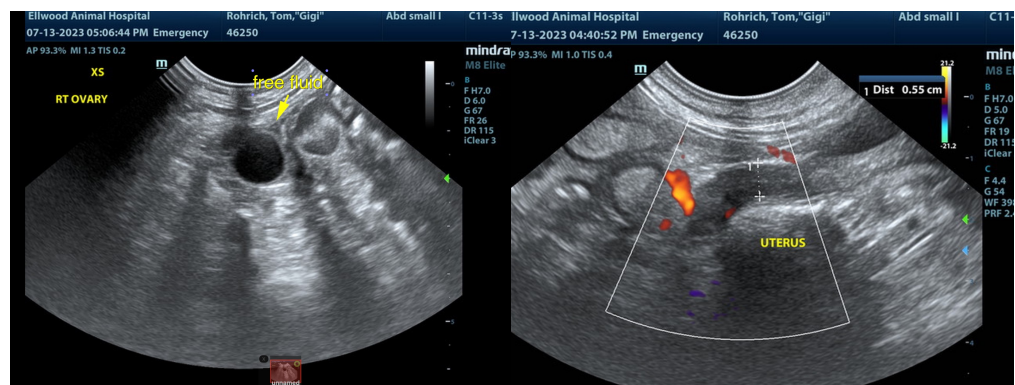
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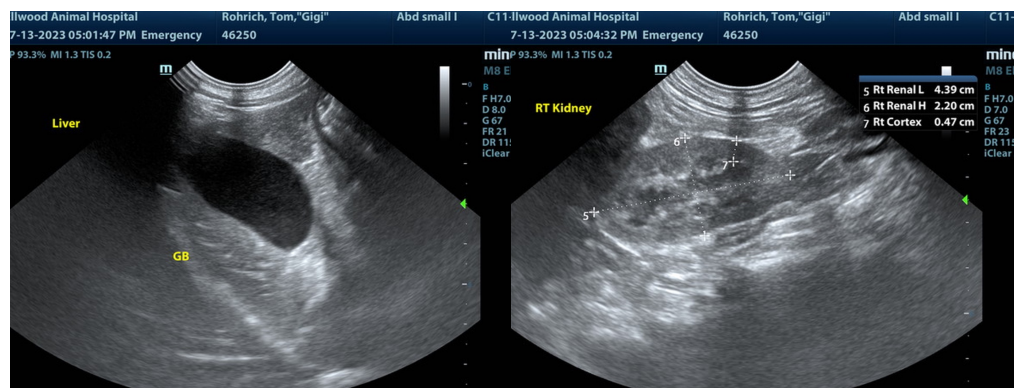
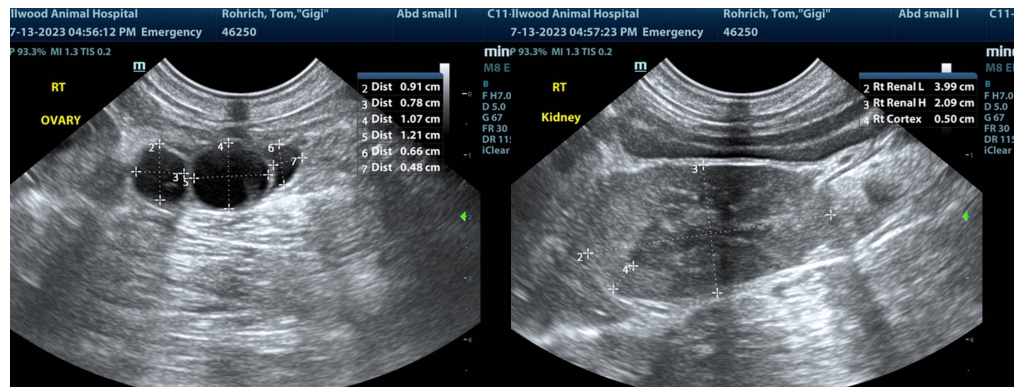
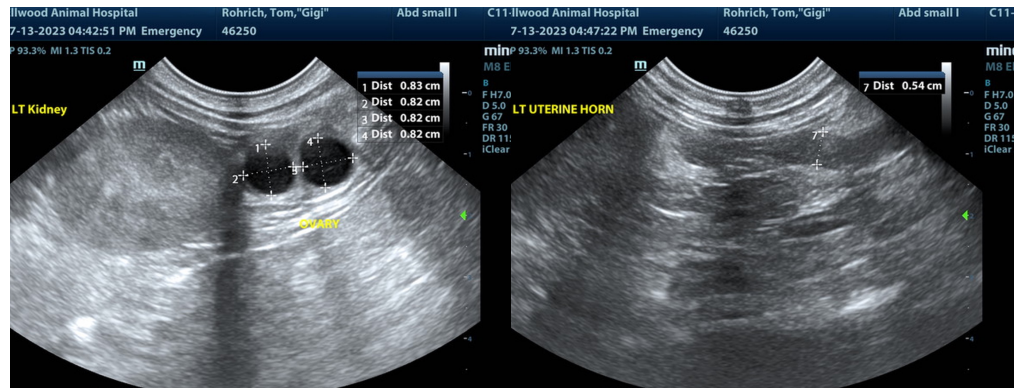
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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, CEO of SonoPath.com
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