



PATIENT PRESENTING CLINICAL SIGNS

Patient: Holly Knight
History: 3/10/22: bloody urination, treated with 10 days of ciprofloxacin. Issue has continued. Normal labs and urinalysis (cystocentesis) on 3/31/22. Dog acts normal otherwise.
Abnormal PE/Chem/CBC/UA Results: PE: Long nails, string of mucoid green discharge from vulva, remainder Normal. Using laryngoscope- green discharge in the vaginal vault. Anatomy appears normal. UA: SG 1.050, pH 7.0, trace protein, UPC >.1, Clear sediment CBC: Normal Chem: Creat 1.7 mg/dL cPL: normal Heartworm, Ehrlichia, Lyme, Anaplasma antigen negative Fecal antigen and float negative

SPECIES

Canine

BREED ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Labrador Retriever

Urinary System

SEX

Spayed Female

The urinary bladder is slightly under filled; however, the wall is smooth and regular and within normal limits in thickness. There is no evidence of sediment, cystoliths, polyps or a mass. One of the ureteral papilla is visualized and unremarkable. Filling of the bladder is visualized and is considered normal. No obvious abnormalities are observed in the region of the trigone. An in depth evaluation of the proximal urethra is not possible due to gas in the surrounding colon and interference from the pelvis. A “pelvic bladder” cannot be excluded.

AGE

4 years

Approximately 3 cm in length of the uterine stump is visualized. No abnormalities are noted, i.e. there is no evidence of hydrometra, mucometra or pyometra.

WEIGHT

69 lbs

No obvious ovaries or ovarian tissue is identified during the sonographic study.

INTERPRETED BY

Lisa Carioto, DVM,
DVSc, Diplomate
ACVIM

The left kidney measures 5.34 cm (within normal limits). The capsule is smooth. Its overall architecture, including the definition of the cortico-medullary junction, are preserved. There are no signs of nephroliths or pyelectasia. The surrounding mesentery is not hyperechoic.

The right kidney measures 5.52 cm (within normal limits). The capsule is smooth. Its overall architecture, including the definition of the cortico-medullary junction, are preserved. There are no signs of nephroliths or pyelectasia. The surrounding mesentery is not hyperechoic.

IMAGING PERFORMED BY

Carissa Rhoades

Adrenal Glands

The left adrenal gland measures 0.62 cm at the cranial pole, 0.60 cm at the caudal pole and 1.44 cm in length. No abnormalities are noted with the gland’s shape, overall architecture, echogenicity or echotexture. The phrenico-abdominal vein and surrounding vasculature and mesentery are unremarkable.

HOSPITAL NAME

Elizabeth AH

The right adrenal gland measures 0.78 cm in diameter and 1.98 cm in length. No abnormalities are noted with the gland’s shape, overall architecture, echogenicity or echotexture. The phrenico-abdominal vein and surrounding vasculature and mesentery are unremarkable.

REFERRING VET

Dr. Anderson

Spleen

INVOICE

98072

The spleen is within normal limits in size, architecture, echotexture, and echogenicity. The capsule is smooth. No abnormalities are observed with its vasculature, i.e. congestion and thrombi are not identified.

DATE

4/5/22



PATIENT

Liver

Holly Knight

There are no obvious signs of hepatomegaly and its borders are smooth and sharp. The liver's echotexture is homogeneous and it is within normal limits in echogenicity. No abnormalities are observed with the hepatic vessels.

SPECIES

Canine

The gallbladder wall is within normal limits in thickness and echogenicity. There is no evidence of echogenic material (sludge) within the GB or edema surrounding it. The cystic and common bile ducts are not dilated or tortuous.

BREED

Labrador Retriever

Gastrointestinal

SEX

Spayed Female

The gastric wall and pylorus are within normal limits in thickness. There is no loss of definition of the normal architecture of the wall layers. Gas and liquid are present within the lumen; no obvious abnormalities are observed with its peristalsis.

AGE

4 years

The small intestinal wall thickness is within normal limits and the definition of the wall layers is preserved. Dilated loops of bowel are not observed.

The colonic wall is not thickened and mural detail is considered normal.

There are no obvious signs of a mass, foreign body, infiltrative disease or an obstruction.

WEIGHT

69 lbs

Pancreas

No overt abnormalities are observed. There is no evidence of hyperechogenicity of the surrounding mesenteric fat, i.e., there are no signs of active pancreatitis.

INTERPRETED BY

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Other:

Lymph nodes: No abnormalities are observed.

Abdominal effusion is not visualized.

IMAGING PERFORMED BY

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HOSPITAL NAME

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Heart

A brief video clip of the heart was submitted. No pericardial or pleural effusion is identified. The heart rate is very slow due to sedation with dexmedetomidine.

REFERRING VET

Dr. Anderson

ULTRASONOGRAPHIC FINDINGS

An obvious cause for the hematuria and the green vaginal discharge are not identified on today's abdominal ultrasound. The uterine stump visualized does not show any abnormalities.

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Holly may have a "pelvic" urinary bladder, which would not cause her clinical signs, but may explain why it is difficult to obtain a clear image of the proximal urethra.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Holly Knight

A digital palpation of the vagina is suggested, as well as a rectal palpation, to exclude urethral abnormalities via the rectum.

SPECIES

Vaginal cytology may be performed. A progesterone concentration may be considered depending on the results of the vaginal cytology.

Canine

Although most likely already performed, evaluation of the conformation of Holly's vulva and perivulvar region is suggested to exclude a juvenile or "hooded" vulva or a retrograde vulva, which could predispose her to urinary tract infections.

BREED

Labrador Retriever

Basic hygiene should be pursued on a daily basis with 0.025-0.05% chlorhexidine, ensuring the area is kept dry to decrease risk of infection.

SEX

If none of the above are diagnostic or therapeutic, one could consider performing a vaginal flush, although this procedure is relatively controversial in North America compared to Europe.

Spayed Female

If clinical signs persist a urine culture and sensitivity based on a free flow urine sample may be performed; however, the vulva and perivulvar area should be disinfected with chlorhexidine at 0.05% prior to collecting the urine sample.

AGE

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Finally, if Holly continues to demonstrate abnormalities, endoscopic examination of the vagina, cervix, etc. as well as cystoscopy, are suggested.

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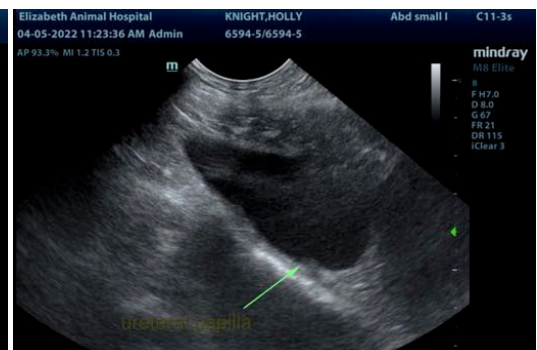
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Spayed Female

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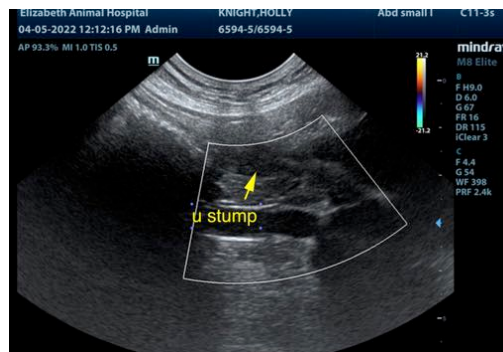
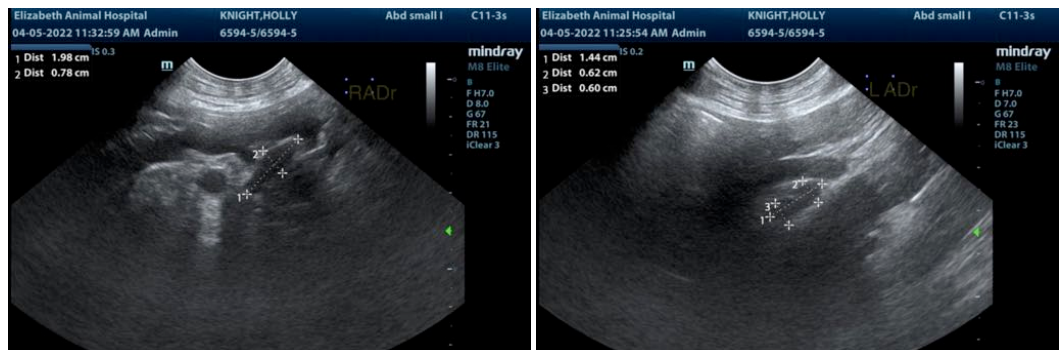
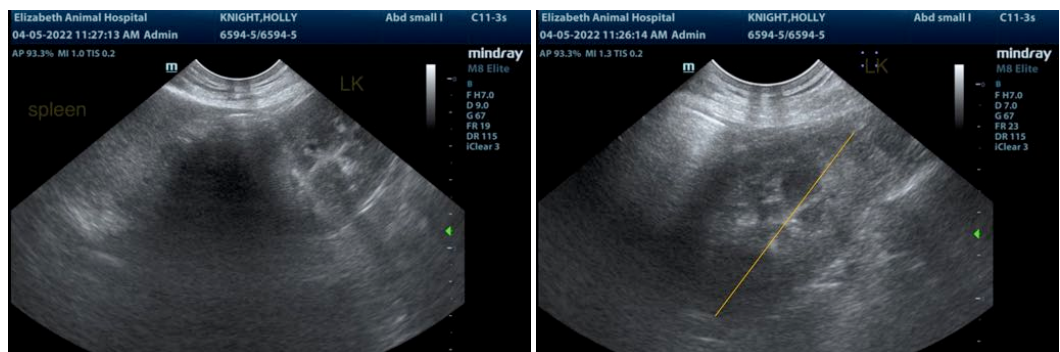
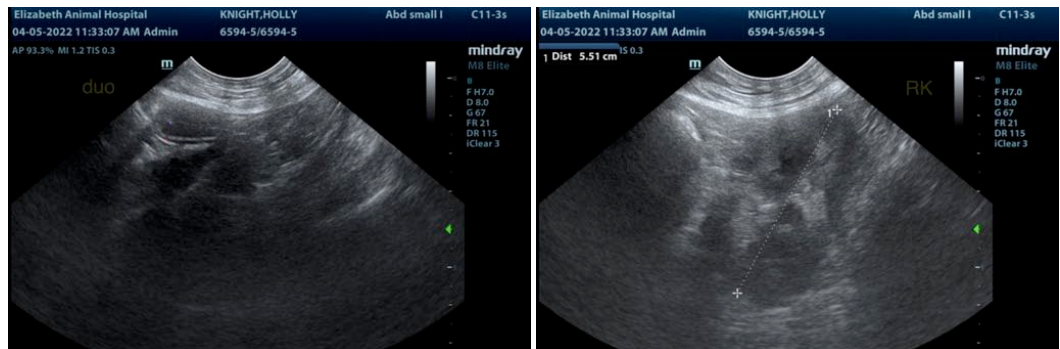
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.



PATIENT

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Holly Knight

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