



PATIENT

PRESENTING CLINICAL SIGNS

Princess Daza

History: P went to emergency hospital for decreased eating/drinking/activity, shortness of breath, distended abdomen. Emergency clinic ran bloodwork and noticed signs of nonregenerative anemia from BW values. P tested positive for E. canis today. Dr. requests second opinion to contribute any abnormalities of organ appearance.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: HEMATOLOGY: RBC 4.90 5.65 - 8.87 M/ μ L L Hematocrit 32.5 37.3 - 61.7 % L Hemoglobin 10.3 13.1 - 20.5 g/dL MCH 21.0 21.2 - 25.9 pg L MCHC 31.7 32.0 - 37.9 g/dL Lymphocytes 0.55 1.05 - 5.10 K/ μ L Eosinophils 0.01 0.06 - 1.23 K/ μ L Platelets * 12 148 - 484 K/ μ L MPV 18.1 8.7 - 13.2 fL H Plateletcrit 0.02 0.14 - 0.46 % CHEMISTRY: Creatinine 0.4 0.5 - 1.8 mg/dL Cholesterol 66 110 - 320 mg/dL

BREED

Yorkshire Terrier

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

SEX

Urinary System

Female

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted. Aortic trifurcation was normal.

AGE

9 Years

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and mild loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 3.4 cm in length. The right kidney measured 3.5 cm in length.

WEIGHT

6.10 Pounds

Adrenal Glands

INTERPRETED BY

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.54 cm width at the caudal pole and 0.48 cm width at the cranial pole.

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.33 cm width at the caudal pole and 0.37 cm width at the cranial pole.

IMAGING PERFORMED BY

Dr. Kim

Spleen

HOSPITAL NAME

Ridgefield Park AH

The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted.

REFERRING VET

Dr. Kim

Liver

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The liver presented enlarged in size with symmetrical yet swollen contour. The parenchyma exhibited conserved uniform parenchyma with normal echogenicity isoechoic to the spleen and falciform fat. The hepatic vasculature was dilated in appearance, most notable at the level of the hepatic vein / caudal vena cava junction, without evidence of thrombosis. The caudal vena cava measured 0.6- 0.7 cm in diameter.

DATE

3/24/22

The gallbladder was non-distended in size (0.30 cm in width) with primarily anechoic content with mild luminal debris. The gallbladder wall was thickened in appearance consisting of an echogenic double rim corresponding to the inner and outer portions of the wall. This is consistent with gallbladder wall edema. Possible causes may include acute inflammation, edema and anaphylaxis.



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Gastrointestinal

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The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained gastric ingesta without signs of obstruction or foreign material. The gastric ingesta may indicate postprandial presentation, correlation with most recent meal ingestion suggested. IF documented NPO, some degree of nonobstructive gastric hypomotility may be possible.

SPECIES

Canine

The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material. Minor subjective, nonspecific duodenojejunal mucosal speckling, potential for mild edematous small intestinal wall changes. The duodenum wall measured 0.37 cm.

BREED

Yorkshire Terrier

Normal visible colon wall layers were present with apparent formed feces in lumen.

SEX

Female

Pancreas

The pancreas was swollen in size with mild mixed echogenic parenchyma, exhibiting discreet hypoechoic striations.

AGE

9 Years

Free Abdomen

Moderate volume, subjectively anechoic, acellular peritoneal free fluid was present. No overt lymphadenopathy. Generalized reactive mesentery noted.

WEIGHT

6.10 Pounds

ULTRASONOGRAPHIC FINDINGS

- Congestive hepatopathy pattern with concurrent gallbladder wall edema
- Edematous pancreas
- Mild age-related kidneys
- Moderate volume, subjectively acellular peritoneal free fluid
- Gastric ingesta

INTERPRETED BY

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HOSPITAL NAME

Ridgefield Park AH

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Congestive hepatopathy pattern with concurrent gallbladder wall edema and moderate volume peritoneal free fluid without evidence of significant hepatic parenchymal disease or reported hypoalbuminemia, suggests right heart disease as the cause of the abdominal abnormalities. This also correlates with the patients reported shortness of breath.

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Three-chest radiographs or ideally, full echocardiographic work up is recommended for further assessment. Peritoneal free fluid analysis, cytology +/- culture and sensitivity, if evidence of inflammatory cells, is suggested.

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INVOICE

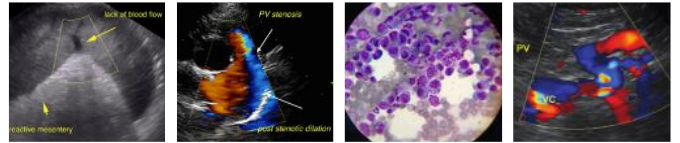
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The information and recommendations provided are based on the images presented by the



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referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Princess Daza

SPECIES

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.

Canine

BREED

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com

Yorkshire Terrier

SEX

Female

AGE

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