



**PATIENT PRESENTING CLINICAL SIGNS**

Biscuit Ferris Persistent UTI's and weight loss, lethargic.  
Abnormal PE/Chem/CBC/UA Results: U/A - Sp. Grav - 1.020, pH 5.5, protein 1+, Blood 3+, WBCs 2-30/hpf, RBCs greater than 100. Culture - E.Coli Low normal Albumin, low retics

**SPECIES**

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 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.

**SEX**

Spayed Female

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 loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 6.0 cm. The right kidney measured 6.7 cm.

**AGE**

7 Years

No evidence of pathology in the area of the uterine stump or aortic trifurcation.

**Adrenal Glands**

**WEIGHT**

25.5 kg

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 2.3 cm length x 0.69 cm at the caudal pole. The right adrenal gland was not definitively visualized owing to the presence of the abdominal mass.

**Spleen**

**INTERPRETED BY**

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

The discernable 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.

**IMAGING PERFORMED BY**

Crystal Hill

**Liver**

The liver exhibited subjective mild subnormal size. The liver parenchyma was uniform and hypoechoic to the spleen with a mild coarse echotexture. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non distended in size with mild, echogenic, nonmineralized biliary sludge. The cystic duct and common bile ducts were normal without evidence of dilation.

**HOSPITAL NAME**

Yates Animal Hospital

**Gastrointestinal**

**REFERRING VET**

Dr. Kait

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained echogenic, nonshadowing ingesta most consistent with post prandial presentation without signs of ileus, obstruction or foreign material. Minor potential for gastric stasis if documented NPO.

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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.

**DATE**

8/31/21

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



**PATIENT** *Pancreas*

Biscuit Ferris The parenchyma of the left limb, body and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease was evident.

**SPECIES**  
Canine  
**Free Abdomen**

A moderately sized, non-homogeneous to focally cystic mass occupying the majority of the mid to cranial abdomen, potentially extending into the area of the right cranial abdomen was present, measuring approximately 11-12 cm in diameter. The mass exhibited similar echogenicity compared to the spleen, yet overt connection to the spleen was not definitively evident. The mass did not appear to involve either the left or right kidney, liver, or obvious pancreas. No evidence of associated peritoneal effusion or overt lymphadenopathy.

**SEX**  
Spayed Female Rapid view of the heart revealed no evidence of pericardial masses or effusion in the visible window.

**PRIMARY FINDINGS**

- Sonographically unremarkable urinary bladder and visible proximal urethra
- Abdominal mass – suspect splenic origin, although potential for non-splenic origin could not be definitively excluded.
- Subjective mild subnormal liver size – non-specific, patient variant possible given the lack of reported hepatic enzyme elevations.

**SECONDARY FINDINGS**

- Mild gallbladder debris – potentially owing to non-clinical cholestasis, likely incidental
- Gastric ingesta

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

An obvious cause of the patient’s persistent UTIs was not definitively evident. Ideally based on urine culture and sensitivity results, a higher dose of antibiotic for shorter duration (i.e., Clavamox or Enrofloxacin 20 mg/kg PO SID For 3-5 days may prove more effective at eliminating recurrent infection. Gross inspection of the vulva and vaginal vault for evidence of structural pathology, which may predispose to ascending infection, may be considered. Benign versus neoplastic etiologies are possible for the abdominal mass, although neoplasia is favored. Assuming no evidence of thoracic pathology on 3-view chest radiographs, further clarification with abdominal CT as well as surgical planning, or laparotomy with expectation towards splenectomy and gross inspection of the liver may be considered.

**INTERPRETED BY**

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

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Crystal Hill

**HOSPITAL NAME**

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**PATIENT**

Biscuit Ferris

**SPECIES**

Canine

**BREED**

English Bulldog

**SEX**

Spayed Female

**AGE**

7 Years

**WEIGHT**

25.5 kg

**INTERPRETED BY**

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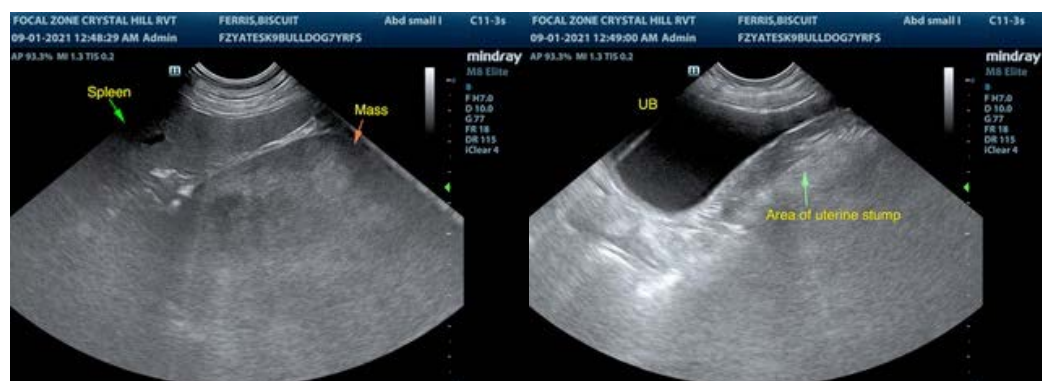
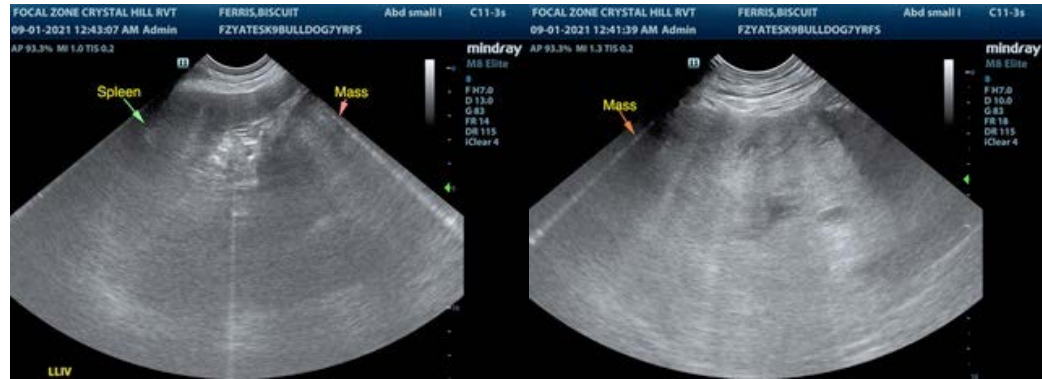
Dr. Kait

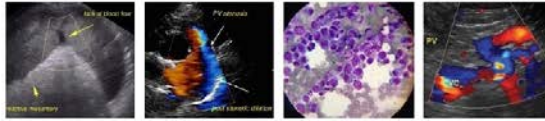
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**PATIENT**

Biscuit Ferris

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.

**SPECIES**

Canine

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.

**BREED**

English Bulldog

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

**SEX**

Spayed Female

**AGE**

7 Years

**WEIGHT**

25.5 kg

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