
**PATIENT PRESENTING CLINICAL SIGNS**

Lily Haire History: PuPd, weight loss, anorexia past 2 days, vomiting and diarrhea past week.

**SPECIES** Physical Examination: Pyoderma.

Canine Urinalysis: N/A.

CBC: Neutrophilia.

**BREED** Serum Biochemistry: Azotemia, hyperphosphatemia, elevated cortisol.

French bulldog Radiographic Findings: N/A.

**SEX ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

FS **Urinary System**

**Age** Small urinary bladder with a thickened and irregular apical wall with the rest of the wall having a normal thickness and appearance. No sediment or uroliths evident.

9 years

Normal trigone area, proximal urethra (0.4 cm), and iliac blood vessels.

**WEIGHT**

12 kg

Normal iliac lymph nodes (1.8 cm). Ureters not visualized.

Normal renal size (left 5.2 cm, right 5.5 cm) with increased echogenic appearance, some loss of cortico-medullary differentiation, and normal capsule and right pelvis. Left pyelectasia (0.3 cm). Hyperechogenic appearance of the peri-renal fat around the left kidney.

**INTERPRETED BY**

Remo Lobetti, BVSc,  
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ECVIM

**Reproductive System**

N/A.

**IMAGING PERFORMED BY**

Sonya Myers, DVM

**Adrenal Glands**

Normal position, echogenic appearance, shape, and size. Left 0.64/0.67 cm, right 0.62/0.72 cm.

**HOSPITAL NAME Spleen**

Oviedo Veterinary Care and  
Emergency

Normal size (2 cm) and echogenic appearance. Smooth homogenous parenchyma, regular curvilinear capsule, and normal vasculature. No evidence of inflammatory, neoplastic, infarction, or infiltrative changes noted.

**REFERRING VET**

Dr Caja

**Liver**

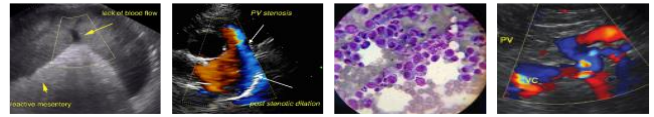
Normal size, echogenic appearance, portal markings, and regular curvilinear capsule. No nodules or masses evident. Full gall bladder containing moderate amount of adhered and non-adhered hyperechogenic sediment. Normal thickness and echogenic appearance of the gall bladder wall. Normal bile duct (0.3 cm).

**INVOICE**

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**PATIENT** *Gastrointestinal*

Lily Haire Segmental thickening of the stomach (0.61 cm) with a prominent submucosal layer but with no loss of layering. Moderate amount of fluid within the stomach. Prominent submucosal layer of the of the duodenum and small intestine but with no thickening (duodenum 0.55 cm, jejunum 0.43 cm), loss of layering or distension of the lumen but with mucosal stippling. Normal appearance of the ileo-cecal junction and colon.

**BREED** *Pancreas*

French bulldog Normal size (right 1.3 cm) and echogenic appearance. Regular capsule. Normal echogenic appearance of the mesentery and fat surrounding the pancreas.

**SEX** *Free Abdomen*

FS Mesenteric lymphadenomegaly (0.9 x 3.1 cm) with normal shape and echogenic appearance. No ascites.

**Age**

9 years

**ULTRASONOGRAPHIC FINDINGS**
**WEIGHT** Primary Findings:

12 kg

- Renal disease.
- Cystitis.
- Gastroenteropathy.
- Mesenteric lymphadenomegaly.

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## Secondary Findings:

- Gall bladder sediment.

**IMAGING PERFORMED BY**

Sonya Myers, DVM

**HOSPITAL NAME**

Oviedo Veterinary Care and  
Emergency

**REFERRING VET**

Dr Caja

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Etiologies for the renal disease would be chronic kidney disease, bacterial nephritis, Leptospirosis, and pyelonephritis.

Etiologies for the gastroenteropathy would be secondary to the renal disease, non-specific gastroenteritis, ulcerative disease, *Helicobacter* gastritis, inflammatory bowel disease, dietary hypersensitivity, and parasitic enteritis.

The most likely etiology for the mesenteric lymph nodes would be reactive with lymphadenitis and neoplasia less likely differential diagnoses.

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Although the gall bladder sediment is most likely an incidental finding, monitoring for the possible development of a mucocele would be indicated.

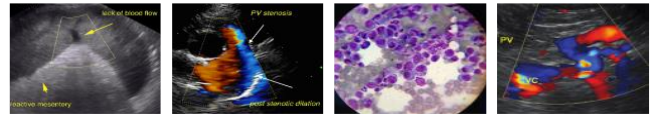
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Further assessment would be urine and fecal analyses, urine culture, *Leptospira* titers/PCR, and possibly endoscopy of the upper GI tract with biopsies.

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Specific therapy would be dependent on an etiological diagnosis.



**PATIENT**

Lily Haire

**SPECIES**

Canine

**BREED**

French bulldog

**SEX**

FS

**Age**

9 years

**WEIGHT**

12 kg

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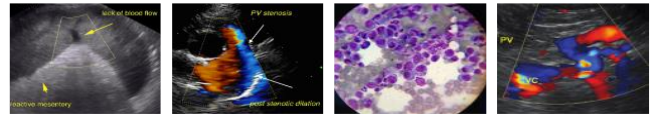
**IMAGES**

**Urinary bladder**



**Left kidney**





**PATIENT**      **Stomach**

Lily Haire

**SPECIES**

Canine

**BREED**

French bulldog

**SEX**

FS

**Age**

9 years

**WEIGHT**

12 kg



**Small intestine**

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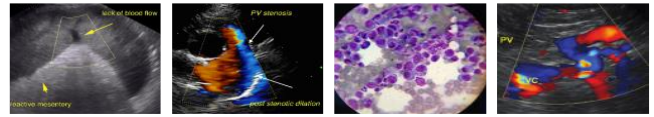
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**PATIENT** Gall bladder

Lily Haire

**SPECIES**

Canine

**BREED**

French bulldog

**SEX**

FS

**Age**

9 years

**WEIGHT**

12 kg



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**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.**

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.

**IMAGING PERFORMED BY**

Sonya Myers, DVM

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