

**PATIENT**

Bernard Brownstein

**SPECIES**

Feline

**BREED**

DSH

**SEX**

FS

**AGE**

13 years

**WEIGHT**

8 #

**INTERPRETED BY**

Remo Lobetti, BVSc,  
MMedVet (Med), PhD,  
Dipl. ECVIM

**IMAGING PERFORMED BY**

Brent Crutchfield, DVM

**HOSPITAL NAME**

Treasure Coast Animal  
Emergency

**REFERRING VET**

Angela Cail

**INVOICE**

304129

**DATE**

4/17/23

**PRESENTING CLINICAL SIGNS**

History: Follow up ultrasound – dilated bile duct and renal changes on previous ultrasound (1/16).

Physical Examination: N/A.

Urinalysis: N/A.

CBC: N/A

Serum Biochemistry: N/A.

Radiographic Findings: N/A.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

Full urinary bladder with a normal thickness (0.1 cm) and appearance of the wall. Moderate amount of floating hyperechogenic sediment present. No uroliths evident.

Normal trigone area, proximal urethra, and iliac blood vessels.

Normal iliac lymph nodes. Ureters not visualized.

Normal renal size (left 4.2 cm, right 4 cm) with increased echogenic appearance, loss of cortico-medullary differentiation, mild pyelectasia, and normal capsule. Bilateral cortical cysts up to 1.2 cm in size.

**Reproductive System**

N/A.

**Adrenal Glands**

Normal shape, echogenic appearance, position, and size. Right 0.4 cm.

**Spleen**

Normal size (0.5 cm) and echogenic appearance. Smooth homogenous parenchyma, regular curvilinear capsule, and normal vasculature. No evidence of inflammatory, neoplastic, infarction, or infiltrative changes noted.

**Liver**

Normal size, echogenic appearance, portal markings, and regular curvilinear capsule. No nodules or masses evident.

**Gall bladder**

Full containing normal anechoic bile. Normal thickness (0.1 cm) and echogenic appearance of the wall. Small liths (0.2 cm) within the biliary tree. Distended and tortuous bile duct. Thickened duodenal papilla (0.8 cm) with foci of calcifications.



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***Gastrointestinal***

Normal appearance of the gastro-esophageal junction, stomach, duodenum, small intestine, ileo-cecal junction, and colon with no loss of layering, normal wall thickness (stomach 0.21 cm, colon 0.13 cm) and peristalsis, and no distension of the lumen.

***Pancreas***

Normal size and echogenic appearance. Regular capsule. Normal echogenic appearance of the mesentery and fat surrounding the pancreas.

***Free Abdomen***

No mesenteric lymphadenomegaly.  
No ascites.

**ULTRASONOGRAPHIC FINDINGS**

Primary findings:

- Dilated bile duct.
- Duodenal papilla mass.
- Age-related renal changes vs renal disease.

Secondary findings:

- Gall and urinary bladder sediment.

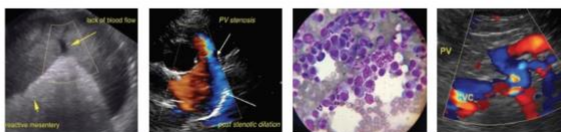
**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The appearance of the bile duct is similar to that of the previous ultrasound with possible etiologies being partial obstruction from the duodenal mass and age-related changes.

Etiologies for the duodenal papilla mass would be inflammatory reaction and neoplasia.

Further assessment would be liver enzyme activity and bilirubin and if there is progressive elevation and/or severe elevation, then laparotomy would be indicated to address the partial obstruction.

Specific therapy would be dependent on an etiological diagnosis.



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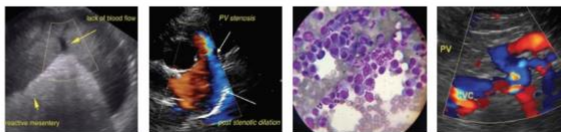
**DATE**

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**IMAGES**

**Bile duct**





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**Duodenal papilla**



**Right kidney**



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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.

**Remo Lobetti**, BVSc, MMedVet (Med), PhD, Dipl. ECVIM (Internal Medicine)  
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