



PATIENT PRESENTING CLINICAL SIGNS

Gracie Singleton History: Hyperthermia. Possible history of Cushing's disease.

SPECIES Physical Examination: N/A.

Canine Urinalysis: N/A.

CBC: N/A.

BREED Serum Biochemistry: Severely elevated liver enzyme activity.

CKCS Radiographic Findings: N/A.

SEX ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

FS **Urinary System**

AGE Full urinary bladder with a normal thickness and appearance of the wall. Normal anechoic urine with no sediment or uroliths evident.

14 years Normal trigone area, proximal urethra (0.5 cm), and iliac blood vessels.

WEIGHT Normal iliac lymph nodes (1 cm). Ureters not visualized.

35 # Normal renal size (left 6.2 cm, right 5.7 cm) with increased echogenic appearance, some loss of cortico-medullary differentiation, and normal capsule and right pelvis. Left pyelectasia (0.4cm). Bilateral cortical cysts.

INTERPRETED BY

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Reproductive System

N/A.

IMAGING PERFORMED BY

Sonya Myers, DVM

Adrenal Glands

Normal shape, echogenic appearance, and position. Normal size of right gland (0.39/0.5 cm), enlarged left gland (0.79/0.67 cm).

HOSPITAL NAME

Oviedo Veterinary Care and
Emergency

Spleen

Normal size (0.7 cm) and echogenic appearance. Multiple small parenchymal anechoic nodules (up to 0.8 cm). Smooth homogenous parenchyma, regular capsule, and normal vasculature.

REFERRING VET

Dr Lawrence

Liver

Normal size with a diffuse increased echogenic appearance, and some loss of portal markings. No nodules or masses evident. Distended gall bladder containing large amount of hyperechogenic sediment. Normal thickness and appearance of the gall bladder wall. Dilated bile duct (0.7 cm) containing hyperechogenic sediment.

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DATE

7/6/22


PATIENT *Gastrointestinal*

Gracie Singleton

Normal appearance of the duodenum, small intestine, ileo-cecal junction, and colon with no loss of layering, normal wall thickness (duodenum 0.4 cm, jejunum 0.34 cm, colon 0.16 cm) and peristaltic activity, and no distension of the lumen. Thickening of the wall at the pylorus (0.92 cm) but with no loss of layering. Normal appearance and thickness of the rest of the gastric wall.

SPECIES

Canine

Pancreas
BREED

CKCS

Normal size (right 1.8 cm) and echogenic appearance. Regular capsule. Normal echogenic appearance of the mesentery and fat surrounding the pancreas.

Free Abdomen
SEX

FS

Normal mesenteric lymph nodes (1.6 cm).
No ascites.

AGE

14 years

ULTRASONOGRAPHIC FINDINGS

Primary Findings:

WEIGHT

35 #

- Bile duct obstruction.
- Focal gastric thickening.
- Left adrenomegaly.
- Splenic nodules.
- Renal disease.
- Hepatopathy.

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Secondary Findings:

- None.

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Sonya Myers, DVM

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REFERRING VET

Dr Lawrence

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Etiologies for the gastric thickening would be focal gastritis, *Helicobacter* gastritis, ulcerative disease, granulomatous reaction, and emerging neoplasia.

Etiologies for the left adrenal would be disease stress, age-related, and Cushing's disease.

The most likely etiology for the splenic nodules would be reactive hyperplasia with granulomas, abscesses, and neoplasia, less likely differential diagnoses.

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

Etiologies for the hepatopathy would be age-related change, reactive, vacuolar, metabolic, chronic hepatitis, and early cirrhosis with infiltrative neoplasia, a far less likely differential diagnosis.

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Ideal further assessment/therapy would be laparotomy, which would allow assessment and flushing/stenting of the bile duct and obtaining biopsies of the gastric wall, spleen, and liver.

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Additional diagnostic would be urinalysis, urine culture, FNA cytology of the liver and spleen, and adrenal function testing (ACTH stimulation/LDDS test).

Medical therapy would be gastric protectants, antibiotics, and ursodiol with regular ultrasound monitoring of the gall bladder.



PATIENT

Gracie Singleton

SPECIES

Canine

BREED

CKCS

SEX

FS

AGE

14 years

WEIGHT

35 #

IMAGES

Spleen



Stomach

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PATIENT Liver

Gracie Singleton

SPECIES

Canine

BREED

CKCS

SEX

FS

AGE

14 years

WEIGHT

35 #

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Gall bladder/bile duct



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.

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