

## PATIENT

Cookie Tyson

## SPECIES

Feline

## BREED

DSH

## SEX

FS

## AGE

16 years

## WEIGHT

8 #

## INTERPRETED BY

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

## IMAGING PERFORMED BY

Lara Wiseman, DVM

## HOSPITAL NAME

Boca Midtowne  
Animal Hospital

## REFERRING VET

Dr Boazman

## INVOICE

302943

## DATE

5/6/22

## PRESENTING CLINICAL SIGNS

History: Requires anesthetic for dental. Hyperthyroid – on methimazole but may not be getting the medication.

Physical Examination: N/A.

Urinalysis: N/A.

CBC: Normal.

Serum Biochemistry: Elevated T4, rest normal.

Radiographic Findings: Mild cardiomegaly, splenomegaly.

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

### Urinary System

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

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

Normal iliac lymph nodes. Ureters not visualized.

Normal renal size (left 3.6 cm, right 3.8 cm) with increased echogenic appearance, some loss of loss of cortico-medullary differentiation, and normal pelvis and capsule.

### Reproductive System

N/A.

### Adrenal Glands

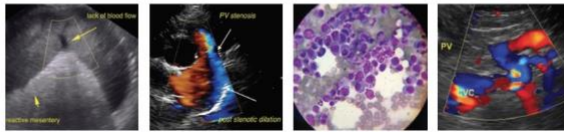
Normal shape, echogenic appearance, and position. Normal size of the left gland (0.42 cm). Enlarged right gland (0.62 cm) with an irregular hyperechogenic parenchymal nodule (0.5 x 0.5 cm).

### Spleen

Normal size (0.8 cm) and echogenic appearance. Smooth homogenous parenchyma, smooth curvi-linear capsule, and normal vasculature. No evidence of inflammatory, neoplastic, infarction, or infiltrative changes noted.

### Liver

Normal size, echogenic appearance, and portal markings. No nodules or masses evident. Gall bladder not evident. Dilated bile duct (up to 0.43 cm).



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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 0.23 cm, duodenum 0.22 cm, jejunum 0.17 cm) and peristalsis, and no distension of the lumen. Moderate amount of ingesta within the stomach.

**Pancreas**

Normal size (right 0.6 cm) 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:

- Right adrenal nodule.

Secondary findings:

- Absent gall bladder.
- Age-related renal changes.
- Age-related bile duct distension.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The most likely etiology for the right adrenal nodule would be an incidental adenoma or emerging non-functional carcinoma, as there no obvious signs of it being functional (Cushing's disease or Conn's syndrome).

Etiologies for the absent gall bladder would be completed voided, congenital anomaly, or previous cholecystectomy.

Further assessment that could be considered would be FNA cytology of the adrenal nodule.

On this ultrasound there is no contra-indication for anaesthesia.



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### IMAGES

#### Right adrenal



#### Bile duct



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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)  
 rlobetti@mweb.co.za