



PATIENT

Niaya Cavanaugh

SPECIES

Canine

BREED

Basset Hound Mix

SEX

Spayed female

AGE

17 years

WEIGHT

45.4 lbs

INTERPRETED BY

Tam Mengine, DVM,
DABVP (canine/feline
practice)

**IMAGING
PERFORMED BY**

Shari Reffi CVT

HOSPITAL NAME

Mount Olive VH

REFERRING VET

Dr. Jones

INVOICE

32058

DATE

7/29/22

PRESENTING CLINICAL SIGNS

History: Circling, dazed behavior, azotemia, PU/PD, polyphagia, incontinence. Current meds: Rimadyl, Proin

Abnormal PE/Chem/CBC/UA Results: ALT 235, ALP 324, BUN 43, CREAT 2.6, CHOL 614, AMYLASE 1186, PSL 186, CPK 51, PLT 534, U/A-USG 1.014, PH 7.5, PROT 3+, Tr BLD., 4 Epithelial/HPF

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder is moderately distended with anechoic urine, and no luminal sediment is present. The bladder wall is mildly thickened up to 4.2 mm with mucosal irregularities at the level of the apex. The ureteral papillae, trigone and pelvic urethra are of normal appearance, and the ureters are not visible (normal). No masses or calculi are noted. The pelvic urethra is visualized 3.0 cm beyond the cystourethral junction and appears normal.

The left kidney is (5.2) cm in length with moderately decreased corticomedullary differentiation. There are several small cortical cysts that measured less than 0.5 cm each. There is a 3.6 mm non-obstructive, shadowing nephrolith in the renal cortex. There is no evidence of mineralization, pyelectasia or hydronephrosis. The proximal ureter is not visible (normal).

The right kidney is hyperechoic, and exhibit moderately decreased corticomedullary differentiation and measured 5.68 cm. There is no evidence of nephrolithiasis, mineralization, pyelectasia or hydronephrosis. The proximal ureter is not visible (normal).

Adrenal Glands

There is a heteroechoic mass with focal mineralization arising from the cranial pole of the left adrenal gland, measuring (3.2 x 2.3 cm). Vascular invasion is not evident.

There is a heteroechoic mass arising from the cranial pole of the right adrenal gland, measuring (3.1 x 2.1 cm). Vascular invasion is not evident.

Spleen

A (1.1) x (1.1) cm heterogeneous mass is noted near the splenic hilus. The surrounding omentum is normal. The splenic vasculature is normal with no evidence of congestion or thrombosis, and blood flow through the splenic hilus appears normal.

Liver

The liver is diffusely hyperechoic and subjectively enlarged. The portal and hepatic vasculature are of normal size and appearance with no evidence of congestion or thrombosis.



PATIENT	The gallbladder is moderately distended with anechoic contents and a large amount of echogenic sludge. The wall was thin and continuous with no focal lesions. The cystic and common bile ducts are normal / not visible.
Niaya Cavanaugh	
SPECIES	<i>Gastrointestinal</i>
Canine	The stomach is empty. The gastric wall is (0.46) cm with normal deviations due to rugal folds, and exhibits appropriate wall layering. The pylorus is of normal appearance.
BREED	The visualized portions of the duodenum, jejunum, and ileum are of normal thickness with intact wall layering that exhibits the appropriate 1:3 muscularis to mucosa ratio. The duodenal wall measures (0.49) cm. The jejunal wall measures up to (0.32) cm. Intestinal motility appears normal.
Basset Hound Mix	
SEX	The visible portions of the colon are of normal thickness, up to (1.7) mm, with intact wall layering. The ileocecal junction is visualized and appears normal.
Spayed female	
AGE	<i>Pancreas</i>
17 years	The areas of the limbs and body of the pancreas are isoechoic to the surrounding mesenteric fat, with normal capsular appearance. There is no evidence of peripancreatic inflammation. The pancreatic duct appears normal.
WEIGHT	<i>Free Abdomen</i>
45.4 lbs	There is no evidence of free fluid within the peritoneal cavity. The omentum and intra-abdominal fat are of appropriate echogenicity. Enlarged abdominal lymph nodes are not observed. The aortic trifurcation has normal blood flow with no evidence of thrombosis.
INTERPRETED BY	ULTRASONOGRAPHIC FINDINGS
Tam Mengine, DVM, DABVP (canine/feline practice)	PRIMARY FINDINGS:
IMAGING PERFORMED BY	<ul style="list-style-type: none"> • Bilateral adrenal masses. • Heteroechoic splenic mass.
Shari Reffi CVT	SECONDARY FINDINGS:
HOSPITAL NAME	<ul style="list-style-type: none"> • Chronic renal changes. • Small, non-obstructive nephrolith in the left kidney. • Thickened bladder wall typical of cystitis and reactive liver with moderate gallbladder sludge.
Mount Olive VH	
REFERRING VET	
Dr. Jones	
INVOICE	
32058	
DATE	
7/29/22	



PATIENT

Niaya Cavanaugh

SPECIES

Canine

BREED

Basset Hound Mix

SEX

Spayed female

AGE

17 years

WEIGHT

45.4 lbs

INTERPRETED BY

Tam Mengine, DVM,
DABVP (canine/feline
practice)

**IMAGING
PERFORMED BY**

Shari Reffi CVT

HOSPITAL NAME

Mount Olive VH

REFERRING VET

Dr. Jones

INVOICE

32058

DATE

7/29/22

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

A possible cause for the disoriented behavior is not definitively found; however, the changes to the adrenal glands may be consistent with a pheochromocytoma and secondary hypertension could be responsible for the behavioral changes seen. Other explanations include a vestibular episode or primary intracranial disease. CT scan or MRI of the brain can be considered if other causes are not found.

The bilaterally enlarged adrenal glands could be consistent with a benign adenomas, adenocarcinoma, pheochromocytoma or hyperplastic change in response to a pituitary adenoma. Given the mineralization in the left adrenal mass malignancy is a concern. Recommendations include:

- ❖ three-view chest radiographs to screen for metastasis
- ❖ blood pressure measurement to screen for pheochromocytoma
- ❖ if signs of Cushing's disease are present, then adrenal function testing (either a low-dose dex-suppression test or ACTH stimulation test) is recommended
- ❖ fine needle aspiration with a 25G needle could be considered if a coagulation profile is normal.
- ❖ further assessment via CT scan would also be warranted, especially if adrenalectomy is a consideration.





PATIENT

Niaya Cavanaugh

SPECIES

Canine

BREED

Basset Hound Mix

SEX

Spayed female

AGE

17 years

WEIGHT

45.4 lbs

INTERPRETED BY

Tam Mengine, DVM,
DABVP (canine/feline
practice)

**IMAGING
PERFORMED BY**

Shari Reffi CVT

HOSPITAL NAME

Mount Olive VH

REFERRING VET

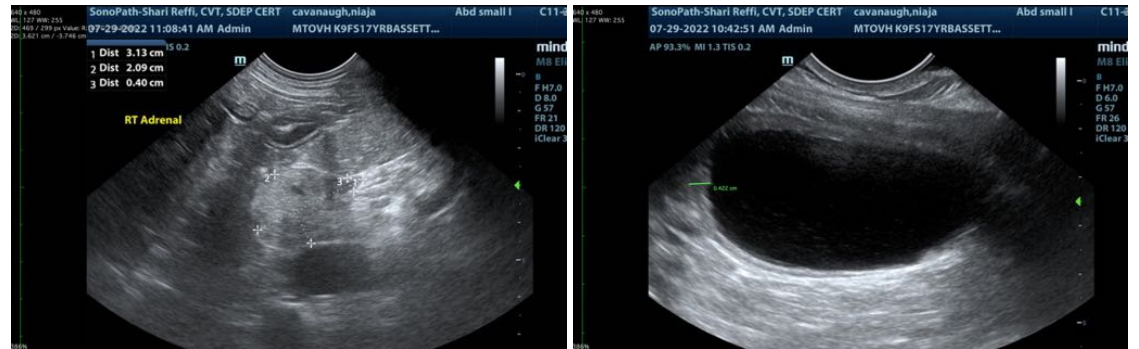
Dr. Jones

INVOICE

32058

DATE

7/29/22



The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. 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.

Tam Mengine, DVM, DABVP (canine/feline practice)

info@SonoPath.com