

PATIENT	PRESENTING CLINICAL SIGNS
Dani Gallagher	History: History of PU/PD, recurrent UTI and progressive elevation in ALP (most recently 1900), otherwise normal lab-work. Blood pressure and LDDS test pending.
SPECIES	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Canine	Urinary System The urinary bladder is minimally distended with anechoic urine. The bladder wall is diffusely thickened and irregular. The ureteral papillae, trigone and pelvic urethra are of normal appearance, and the ureters are not visible (normal). There is a shadowing uroliths present, measuring up to 1.6 cm. The urethra visualized to 3.0 cm.
BREED	
Shih Tzu	
SEX	The kidneys are of normal size and shape and exhibit appropriate corticomedullary differentiation with a normal 1:3 cortex to medulla ratio. There is no evidence of nephrolithiasis, mineralization, pyelectasia, cystic change or hydronephrosis. The proximal ureter is not visible (normal). The left kidney is 4.0 cm in length. The right kidney is 4.0 cm in length.
Female Spayed	
AGE	Adrenal Glands The adrenal glands are both identified in their normal locations. There is a hyperechoic mass arising from the caudal pole of the left adrenal gland, measuring 2.0 x 3.0 cm. Vascular invasion is not distinctly evident. They are otherwise normal in size and shape with appropriate parenchymal echogenicity and normal phrenic vasculature. The left adrenal gland height is 1.2 cm at the cranial pole and 3.0 cm at the caudal pole. The right adrenal gland height is 4.3 mm at the cranial pole and 4.3 mm at the caudal pole.
9 years	
WEIGHT	Spleen The spleen is of appropriate size and has a normal, homogenous parenchyma with a smooth, continuous capsular surface. The splenic vasculature is normal with no evidence of congestion or thrombosis, and blood flow through the splenic hilus appears normal.
8.8 lbs	
INTERPRETED BY	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.
Tam Mengine, DVM, DABVP (canine/feline practice)	
IMAGING PERFORMED BY	The gallbladder is moderately distended with anechoic contents. There is a cholelith present within the gallbladder lumen measuring 1.0 cm. The wall was thin and continuous with no focal lesions. The cystic and common bile ducts are normal / not visible.
Dr. Tam Mengine	
HOSPITAL NAME	Gastrointestinal The stomach is empty. The gastric wall is 4.1 mm with normal deviations due to rugal folds and exhibits appropriate wall layering. The pylorus is of normal appearance.
Stoney Creek VH	
REFERRING VET	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 4.9 mm. The jejunal wall measures up to 4.5 mm. Intestinal motility appears normal.
Dr. Tam Mengine	
INVOICE	The visible portions of the colon are of normal thickness, up to 1.0 mm, with intact wall layering. The ileocecal junction is visualized and appears normal.
12659	Pancreas 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.
DATE	
4.4.23	



PATIENT

Dani Gallagher

Free Abdomen

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.

SPECIES

Canine

ULTRASONOGRAPHIC FINDINGS

Primary Findings

- Left adrenal mass

BREED

Shih Tzu

Secondary Findings

- Urinary bladder stone
- Cholelith

SEX

Female Spayed

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

AGE

9 years

The enlarged left adrenal gland could be consistent with a benign adenoma, adenocarcinoma, pheochromocytoma or hyperplastic change. Adrenal malignancy is a concern. Recommendations include:

WEIGHT

8.8 lbs

- 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.
- Measurement of urine catecholamine metabolites can help to identify a pheochromocytoma. Availability of this testing has been variable but may currently be available from Marshfield Laboratories or IDEXX Laboratories.
- 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.

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Tam Mengine

The shadowing material in the urinary bladder is consistent with urinary calculi. Recommendations include:

- Cystotomy with stone analysis and culture of the urine or stones, followed by appropriate dietary therapy and/or antimicrobial therapy if indicated.

HOSPITAL NAME

Stoney Creek VH

The finding of a cholelith is incidental in most dogs, however, if symptoms or laboratory changes consistent with cholestasis occur, then surgical removal could be considered.

REFERRING VET

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PATIENT

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SPECIES

Canine

BREED

Shih Tzu

SEX

Female Spayed

AGE

9 years

WEIGHT

8.8 lbs

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**IMAGING
PERFORMED BY**

Dr. Tam Mengine

HOSPITAL NAME

Stoney Creek VH

REFERRING VET

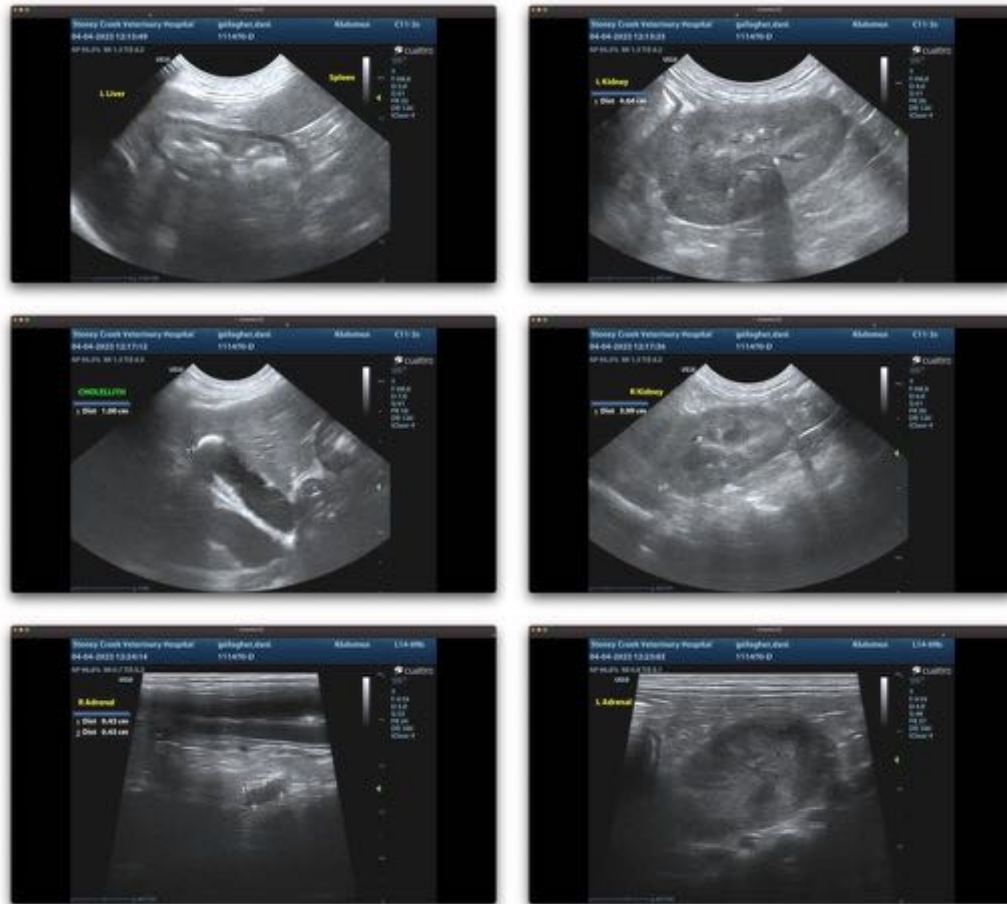
Dr. Tam Mengine

INVOICE

12659

DATE

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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.

Tam Mengine, DVM, DABVP (canine/feline practice) info@SonoPath.com