



PATIENT	PRESENTING CLINICAL SIGNS
Mani Galdos	History: Decreased electrolytes, vomiting for days, anorexic, weight loss, elevated liver enzymes. Blood in vomit. Current meds: Andansetron 8mg bid , Mirtazapine 15mg sid, Metronidazole 50mg bid., Amoxi/clav 500mg/125mg bid
SPECIES	
Canine	Abnormal PE/Chem/CBC/UA Results: Glucose 122, Bun 8, Na 141, K+3.7,ALT 424, LP 372, GGT 15, CHOL 497, NEUT 19729, LYMPH 719, MONO 1308, EOS 44, RET HGB 23.2
BREED	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Collie	Urinary System The urinary bladder, trigone, and pelvic urethra are normal in thickness and the mucosal surface is smooth. The bladder lumen is moderately distended with mostly anechoic urine. No masses, inflammatory changes or calculi are observed. Ureteral papillae and visualized portion of the proximal urethra, visible to a depth of 2 cm, are normal.
SEX	
Intact Male	
AGE	The prostate is enlarged (4.23 cm in width) with a slightly irregular shape. Parenchyma is hyperechoic to heterogenous with numerous small ill-defined cystic areas. The prostatic urethra is not overtly dilated.
11 years	
WEIGHT	The left kidney is normal in size (7.44 cm in length) with a normal shape, smooth peripheral margins, and normal internal architecture. There is moderate loss of corticomedullary distinction. Several hyperechoic shadowing diverticular foci are observed. There is no evidence of pyelectasia, infarcts or hydronephrosis. Renal vasculature is normal.
58.6 lbs	
INTERPRETED BY	The right kidney is normal in size (7.74 cm in length) with a normal shape, smooth peripheral margins, and normal internal architecture. There is moderate loss of corticomedullary distinction. Several hyperechoic shadowing diverticular foci, +/- tiny nephroliths are visualized. There is no evidence of pyelectasia, infarcts or hydronephrosis. Renal vasculature is normal.
Andrea Nicastro, DVM, Diplomate ACVIM (Small Animal Internal Medicine)	
IMAGING PERFORMED BY	Adrenal Glands
Shari Reffi, CVT	The left adrenal gland is normal size (0.60 cm at cranial pole) (0.69 cm at caudal pole) (2.11 cm in length); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.
HOSPITAL NAME	The right adrenal gland is normal size (1.98 cm at cranial pole) (0.76 cm at caudal pole) (2.69 cm in length); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.
Shohola	
REFERRING VET	Spleen
Dr. Gramazio	The spleen is normal in size (1.04 cm in width at the level of the hilus) with a normal capsular contour. There is appropriate echogenicity and echotexture. No focal lesions are observed. Splenic vasculature is normal.
INVOICE	Liver
10372	The liver is subjectively prominent in size with slightly swollen peripheral contours. The parenchyma is isoechoic relative to the spleen. The tissue adjacent to the gall bladder is mildly heterogenous. The
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PATIENT	remaining parenchyma appears homogenous. Hepatic vasculature and intrahepatic biliary tracts are of normal volume with no evidence of congestion.
Mani Galdos	
SPECIES	The gall bladder lumen is moderately distended. The wall is normal in thickness. A moderate to large amount of aggregated echogenic suspended sludge in a stellate pattern is observed within the lumen. The mesentery adjacent to the serosal surface is reactive and adhered. A trace amount of free fluid is also observed adjacent to the gall bladder wall. The cystic and common bile ducts are normal/not seen.
Canine	
BREED	Gastrointestinal
Collie	The stomach and intestine are free of stasis and exhibit normal peristaltic activity. The gastric lumen is not distended. The gastric wall and pylorus are normal in thickness with a normal layering pattern. The small intestinal lumen is not dilated. The small intestinal wall thickness is normal with a normal layering pattern and appropriate mural detail. Discreet masses are not identified. The colonic wall is normal. The lumen of the descending colon contains granular-appearing fecal material. There is no evidence of an obstructive pattern.
SEX	
Intact Male	
AGE	Pancreas
11 years	The right limb of the pancreas is visible with normal curvilinear peripheral contours. The parenchyma is largely isoechoic relative to surrounding omental fat and slightly mottled in appearance. The pancreatic duct is visible but not overtly dilated. There is no evidence of peripancreatic inflammation or effusion.
WEIGHT	Free Abdomen
58.6 lbs	Trace free fluid is observed adjacent to the gall bladder. The abdominal lymph nodes are normal/not visible.
INTERPRETED BY	Other
Andrea Nicastro, DVM, Diplomate ACVIM (Small Animal Internal Medicine)	The left testicle measures 2.59 x 1.10. The right testicle measures 2.92 x 1.85. The testicles are subjectively normal in size and symmetrical with homogenous parenchyma. No obvious pathology is observed.
IMAGING PERFORMED BY	A brief echocardiogram reveals no evidence of pericardial effusion or obvious right atrial/auricular mass.
Shari Reffi, CVT	
HOSPITAL NAME	ULTRASONOGRAPHIC FINDINGS
Shohola	Primary Findings
REFERRING VET	<ul style="list-style-type: none"> Fully-formed gall bladder mucocele with regional peritonitis, likely secondary to cholecystitis. The adjacent hepatic parenchymal changes are likely secondary to secondary inflammation. The remaining hepatic parenchymal changes are most consistent with benign hepatopathy +/- a concurrent inflammatory component.
Dr. Gramazio	Secondary Findings
INVOICE	<ul style="list-style-type: none"> Prostate changes consistent with benign prostatic hypertrophy with small ill-defined parenchymal cysts. Bilateral degenerative renal changes with dystrophic mineralization
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PATIENT

Mani Galdos

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

SPECIES

Canine

BREED

Collie

SEX

Intact Male

AGE

11 years

WEIGHT

58.6 lbs

INTERPRETED BY

Andrea Nicastro,
DVM, Diplomate
ACVIM (Small Animal
Internal Medicine)

IMAGING PERFORMED BY

Shari Reffi, CVT

HOSPITAL NAME

Shohola

REFERRING VET

Dr. Gramazio

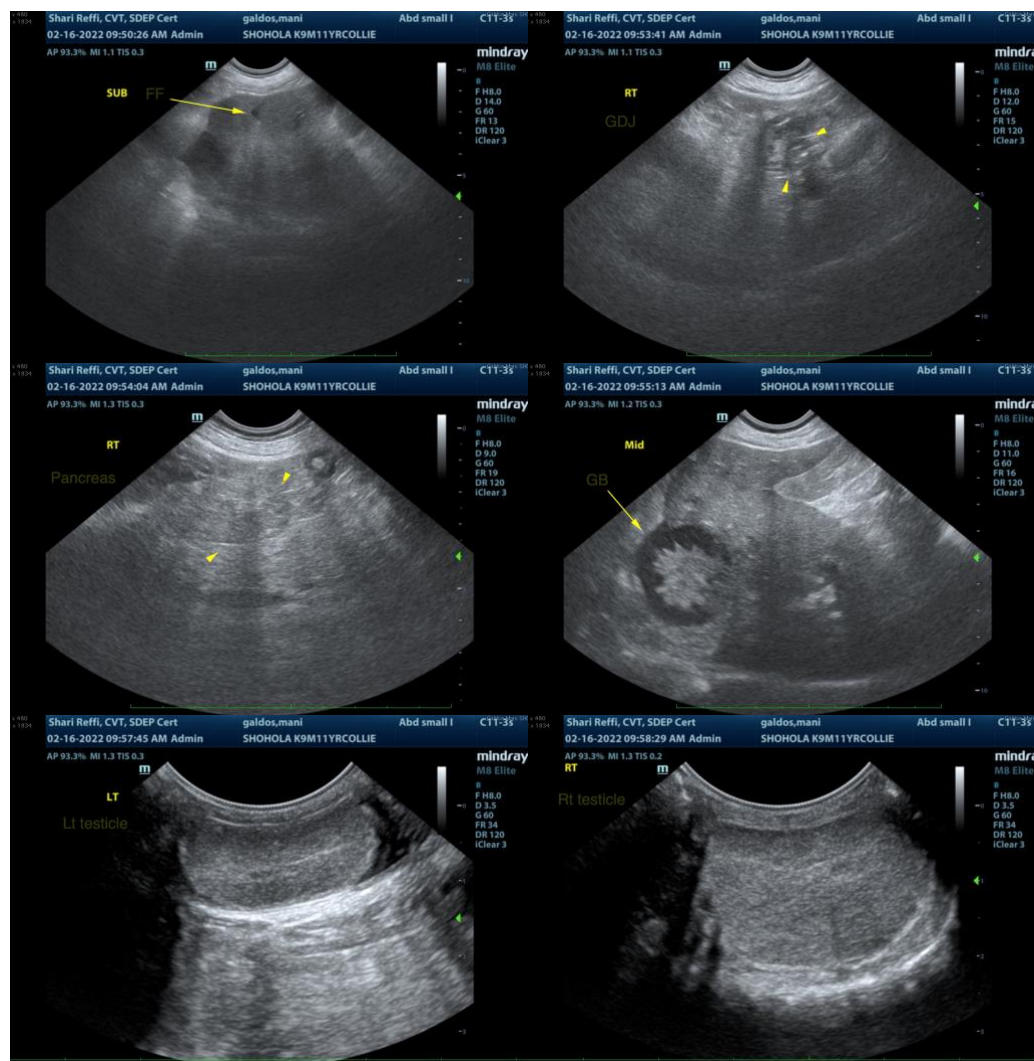
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- A cholecystectomy with submission of the gall bladder as well as hepatic tissue samples for histopathology is recommended. If surgery is to be pursued, referral to a board-certified surgeon is recommended due to the potential for perioperative complications. If the patient is stable under anesthesia, also consider castration at the time of surgery.
- Three-view thoracic radiographs and clotting times (i.e., PT/PTT), should be performed prior to surgery.





PATIENT

Mani Galdos

SPECIES

Canine

BREED

Collie

SEX

Intact Male

AGE

11 years

WEIGHT

58.6 lbs

INTERPRETED BY

Andrea Nicastro,
DVM, Diplomate
ACVIM (Small Animal
Internal Medicine)

IMAGING PERFORMED BY

Shari Reffi, CVT

HOSPITAL NAME

Shohola

REFERRING VET

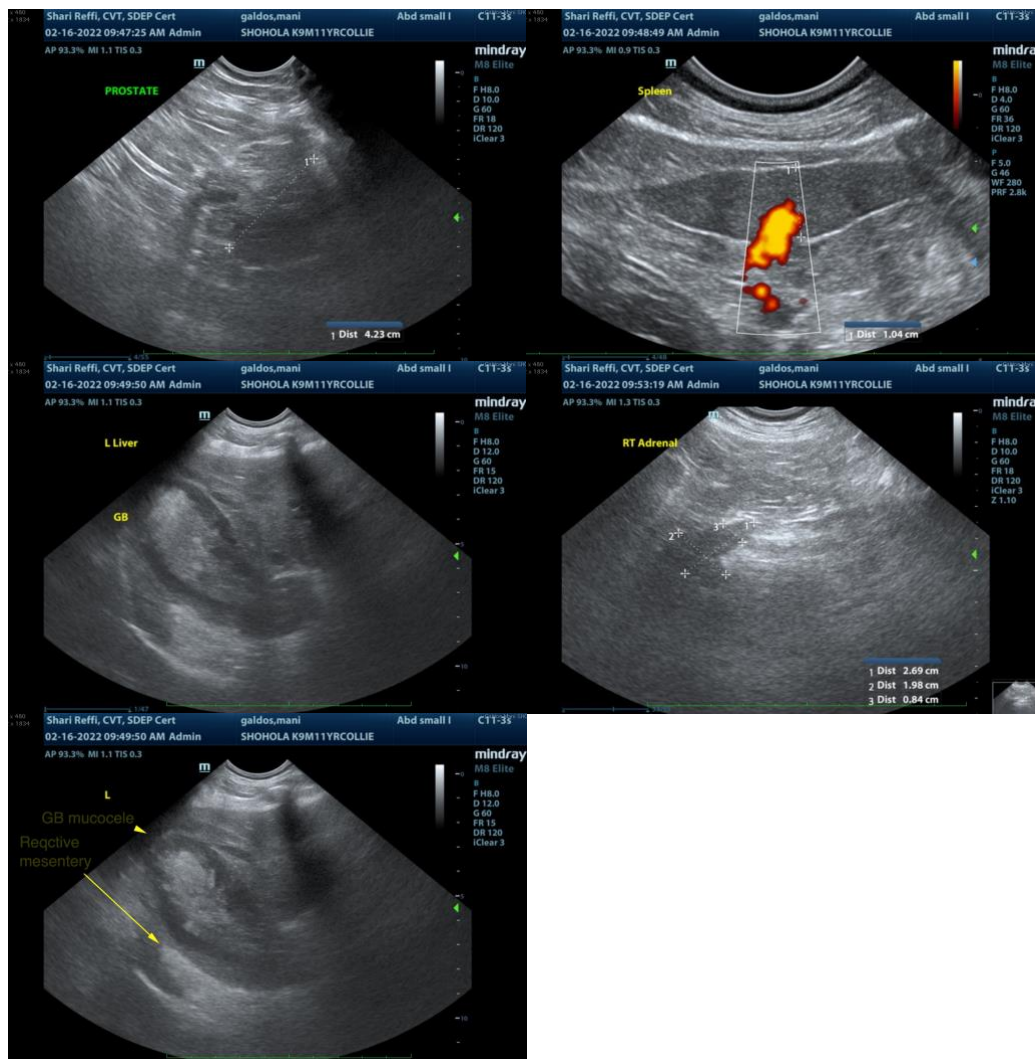
Dr. Gramazio

INVOICE

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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.

Andrea Nicastro, DVM, Diplomate DACVIM (Small Animal Internal Medicine)
info@SonoPath.com