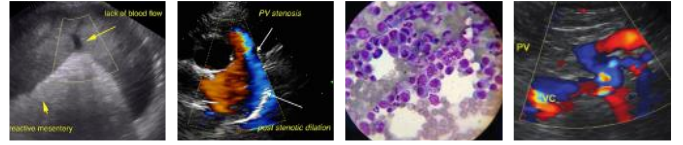




PATIENT	PRESENTING CLINICAL SIGNS
Bear LaFontaine	HX of PU/PD Recently P not eating as well, has lost a few lbs Energy down Still very PU/PD No vomiting or diarrhea
SPECIES	Abnormal PE/Chem/CBC/UA Results: Overwt labs done 10/28/2022 elevated Alkp (316), hypercalcemia (12.6), mildly elevated PSL (204) and triglycerides (618) UA: USG 1.015 , all else WNL Normal CBC Ionized Ca 1.71 Submitted PTHRP to MSU: normal results (0)
Canine	
BREED	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Pug	Urinary System
SEX	The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra exhibited normal thickness and tone. Anechoic urine was present in the lumen with mild dependent mineral. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.
MN	
AGE	Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and minor loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Bilateral medullary mineral present in the lateral diverticuli. The left kidney measured 4.7 cm in length. The right kidney measured 4.8 cm in length.
9yr	
WEIGHT	The area of the aortic trifurcation was free of pathology.
19.9	The area of the iliac trifurcation was free of pathology including no evidence of medial, iliac or sublumbar lymphadenopathy.
INTERPRETED BY	The area of the residual prostate appeared normal and free of pathology.
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	Adrenal Glands
IMAGING PERFORMED BY	The bilateral adrenal glands were mildly prominent in size with symmetrical contour and subtle non-homogenous parenchyma. The left adrenal gland measured 0.67 cm width at the caudal pole and 0.59 cm width at the cranial pole. The right adrenal gland measured 0.63 cm width at the caudal pole and 0.63 cm width at the cranial pole.
Ruth Loomis	Spleen
HOSPITAL NAME	The spleen exhibited overall normal size and contour with a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Intermittent mildly expansive well demarcated hypoechoic nodules were present, an example measured 1.0 cm in diameter. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis.
Brookwood Animal Clinic	
REFERRING VET	Liver/Gallbladder
Ruth Loomis	The liver was moderate to markedly enlarged with symmetrical to rounded contour and generalized non-uniform increased parenchyma echogenicity and moderate coarse echotexture. No definitive masses or nodules noted. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content with moderate non-dependent mobile non-organized echogenic debris. The cystic and common bile ducts were normal.
INVOICE	
13057ag	
DATE	Gastrointestinal
02/22/2023	



PATIENT	
Bear LaFontaine	The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained mild variably echogenic ingesta/chyme and luminal gas with no signs of ileus, obstruction or foreign material. The gastric body wall measured 0.30 cm in width.
SPECIES	
Canine	The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material. The duodenum wall measured 0.38 cm width. The jejunum wall measured 0.37 cm width.
BREED	
Pug	Pancreas The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.
SEX	
MN	Free Abdomen No omental masses, overt lymphadenopathy or peritoneal effusion was present.
AGE	
9yr	
WEIGHT	
19.9	<ul style="list-style-type: none"> • Mild dependent urinary bladder mineral • Minor age related renal changes with non-obstructive medullary mineral • Mildly prominent bilateral adrenal glands, no adrenal tumors • Hepatomegaly with non-uniform mild parenchyma hyperechogenicity • Gallbladder debris-not consistent with mucocele criteria • Non-specific mildly expansive splenic nodules-hyperplasia, hematopoiesis, focal splenitis, small hematoma or neoplasia possible • Structurally normal GI tract with mild gastric ingesta/chyme • Pancreatic remodeling
INTERPRETED BY	
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS This patient may be passing small amounts of mineral from the kidneys into the urinary bladder. Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered.
IMAGING PERFORMED BY	
Ruth Loomis	Assuming normal clotting status and using a 25g needle, a hepatic parenchyma and splenic nodule FNA for screening cytology is warranted for further assessment.
HOSPITAL NAME	
Brookwood Animal Clinic	An adrenal work up could be considered if strong clinical suspicion for Cushing's syndrome. A GI panel to include PLI/TLI/Cobalamin/Folate is recommended to assess for occult intestinal disease or low grade pancreatic inflammation as contributing factors.
REFERRING VET	
Ruth Loomis	Pending additional diagnostics, a PTH level if not done is suggested as this is a different molecule compared to PTHRP. Hepatosupportive medications such as Denamarin and Ursodiol may prove beneficial.
INVOICE	
13057ag	For an additional charge, internal medicine consult can be utilized through SonoPath.com. You can select the internal medicine drop down at http://spa.sonopath.com/ .
DATE	
02/22/2023	One of the world's top internists & SonoPath associate Dr. Remo Lobetti BVSc, MMedVet, PhD, DECVIM can evaluate your case through SonoPath. https://sonopath.com/resources/sonopath-services/internal-medicine-teleconsultation-services



PATIENT

Bear LaFontaine

SPECIES

Canine

BREED

Pug

SEX

MN

AGE

9yr

WEIGHT

19.9

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Ruth Loomis

HOSPITAL NAME

Brookwood Animal
Clinic

REFERRING VET

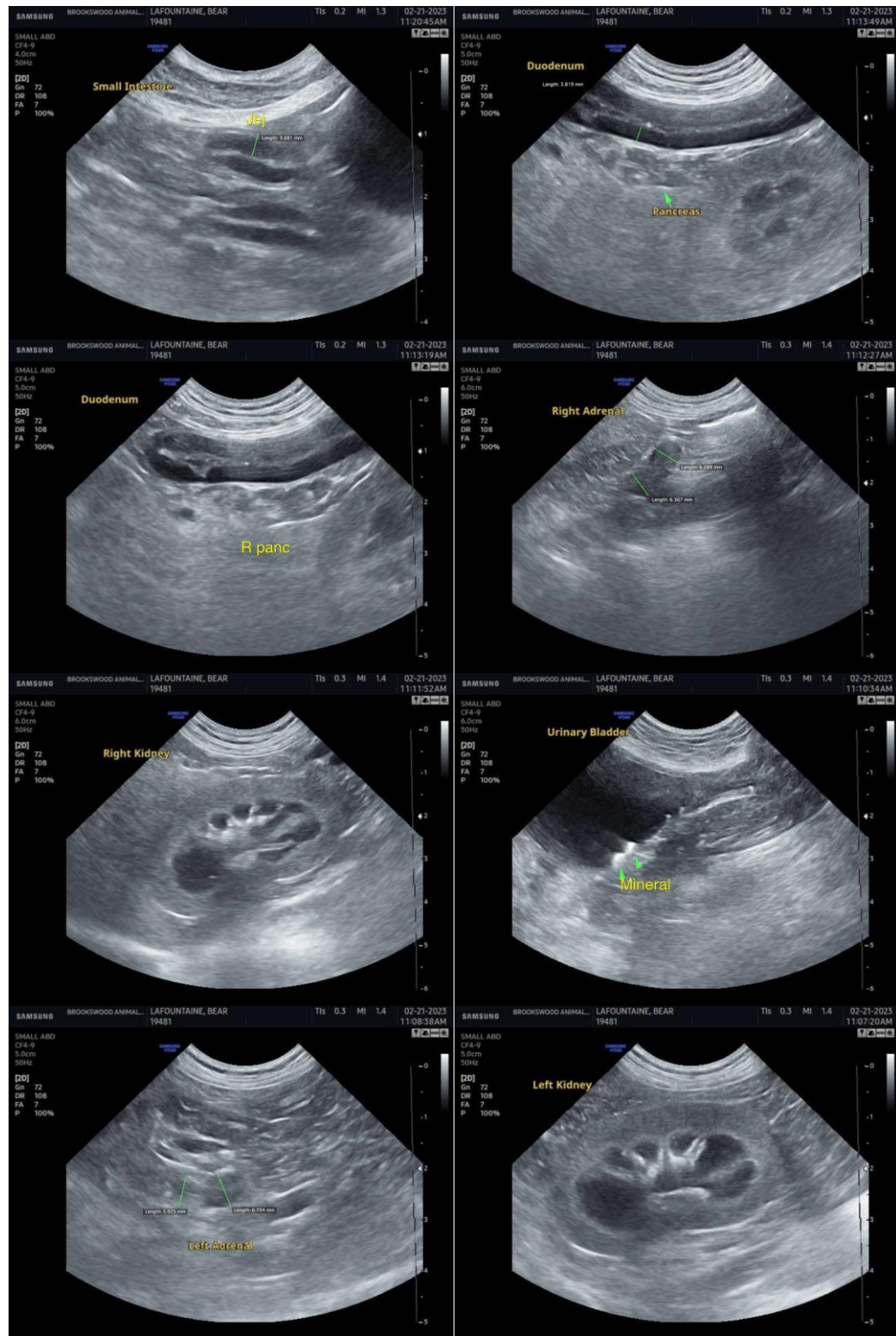
Ruth Loomis

INVOICE

13057ag

DATE

02/22/2023





PATIENT

Bear LaFontaine

SPECIES

Canine

BREED

Pug

SEX

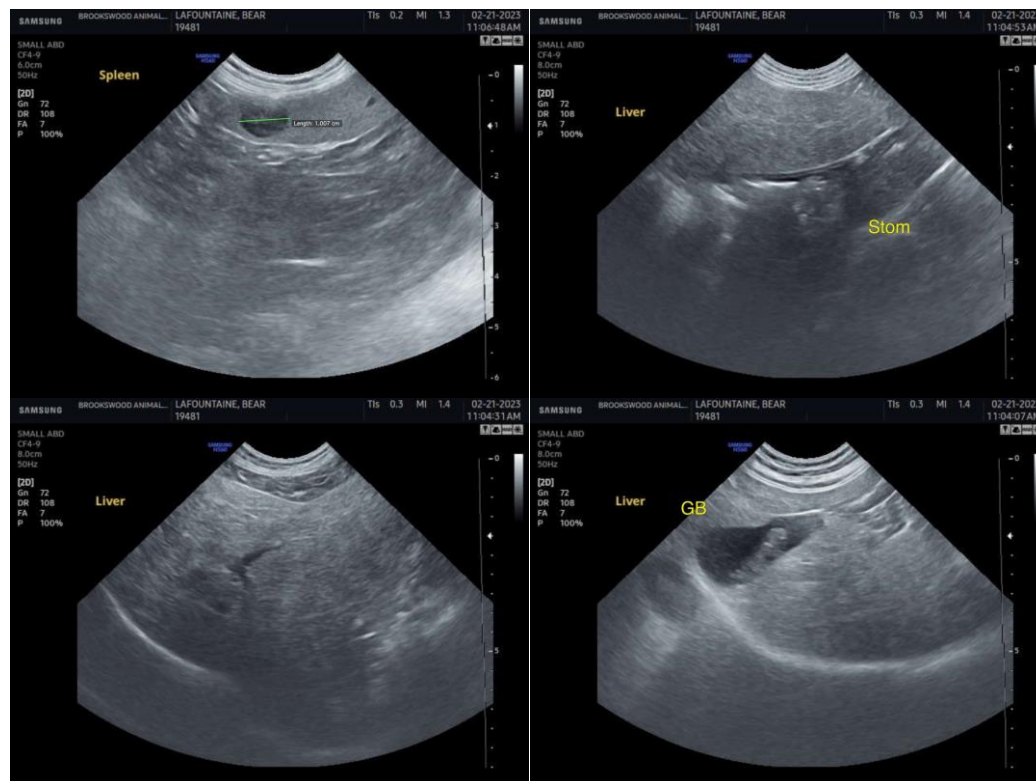
MN

AGE

9yr

WEIGHT

19.9



INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Ruth Loomis

HOSPITAL NAME

Brookwood Animal
Clinic

REFERRING VET

Ruth Loomis

INVOICE

13057ag

DATE

02/22/2023

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.

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)
mac.daniel@sonopath.com