



<b>PATIENT</b>	<b>PRESENTING CLINICAL SIGNS</b>
Lilly Bean Barkhurst	Patient is a long-standing diabetic with generally good control. Owner (who is a veterinarian) reports a two month history of intermittent melena and hematochezia, with daily vomiting. A diet change due to Glycobalance backorder 10 days ago resulted in significant worsening of hematochezia with tenesmus and possible constipation - this lasted only a day or so. Her appetite has also been decreased for the last two weeks. Abdominal effusion noted recently. Exam abnormalities: MM slightly pale, mild dehydration, abdomen distended with palpable effusion. Current Medications PZI 3 Units BID
<b>SPECIES</b>	
Feline	
<b>BREED</b>	<b>ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN</b>
DSH	<b>Urinary System</b>
<b>SEX</b>	The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 cm exhibited normal thickness and tone. Primarily anechoic urine was present in the lumen. Mild non-dependent particulate sediment was present without evidence of calculus formation. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic mural changes were noted.
Spayed Female	
<b>AGE</b>	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 loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Mild non-obstructive medullary mineralization was present in both kidneys. The left kidney measured 3.7 cm. The right kidney measured 4.3 cm.
15 Years	
<b>WEIGHT</b>	
8.5	
<b>INTERPRETED BY</b>	<b>Adrenal Glands</b>
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.46 cm in width. No overt pathology in the area of the left adrenal gland.
<b>IMAGING PERFORMED BY</b>	<b>Spleen</b>
Jenna Walsh	The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted. The spleen measured 0.77 cm in width.
<b>HOSPITAL NAME</b>	<b>Liver</b>
Santa Clara AH	The liver was subjectively normal in size, structure, and contour. The liver parenchyma was uniform and hypoechoic to the spleen with a mild coarse echotexture. 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. The cystic and common bile ducts were normal.
<b>REFERRING VET</b>	<b>Gastrointestinal</b>
Dr. Barbara Brasted-Maki	The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction or foreign material. Gastric body wall measured 0.21 cm. Stomach wall measured 0.25 cm.
<b>INVOICE</b>	
24557	
<b>DATE</b>	
8/11/21	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.



**PATIENT** Normal visible colon wall layers were present with apparent formed feces in lumen.

Lilly Bean Barkhurst **Pancreas**

**SPECIES** The pancreas exhibited mild generalized prominent size and minor asymmetrical contour with mildly hypoechoic to heterogeneous parenchyma compared to adjacent omentum. The left pancreatic limb measured approximately 2.0 cm in width.

Feline

**BREED** **Free Abdomen**

DSH

Moderate, subjectively cellular peritoneal effusion was present. The mesentery exhibited generalized increased to non-uniform echogenicity.

**SEX**

No overt lymphadenopathy.

Spayed Female

### ULTRASONOGRAPHIC FINDINGS

**AGE**

15 Years

- Subjective moderate cellular peritoneal effusion
- Generalized echogenic to mildly non-uniform mesentery
- Prominent to hypoechoic, heterogeneous pancreas – potential for chronic active pancreatitis
- Bilateral chronic renal changes with minor medullary mineralization

**WEIGHT**

8.5

### INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

**INTERPRETED BY**

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

Recommend abdominocentesis cytospin cytology with potential rapid slide preparation of the sediment to preserve integrity of the cells +/- culture and sensitivity if inflammatory elements are noted.

Assuming no subnormal albumin levels that would diminish oncotic pressure to the point of causing free fluid, as well as no evidence of passive hepatic congestion or other structural hepatic pathology, no evidence of intestinal mural pathology, perforation, or other pathology that would be responsible for an effusion of this nature. Potential lymphatic obstruction owing to carcinomatosis, lymphomatosis or similar neoplastic process is of primary concern. Potentially, the effusion may be owing to pancreatitis. However, subjectively the degree of pancreatitis was not overtly consistent with that which may result in peritoneal effusion, and without over evidence of pancreatic masses. If not done, 3-view chest radiographs are suggested to assess for or rule out concurrent thoracic pathology and assess cardiopulmonary status.

**IMAGING PERFORMED BY**

Jenna Walsh

**HOSPITAL NAME**

Santa Clara AH

**REFERRING VET**

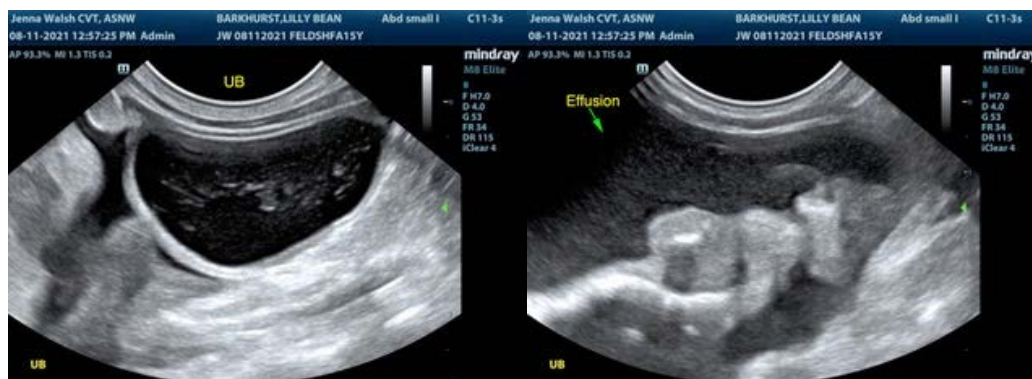
Dr. Barbara Brasted-Maki

**INVOICE**

24557

**DATE**

8/11/21





**PATIENT**

Lilly Bean Barkhurst

**SPECIES**

Feline

**BREED**

DSH

**SEX**

Spayed Female

**AGE**

15 Years

**WEIGHT**

8.5

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Jenna Walsh

**HOSPITAL NAME**

Santa Clara AH

**REFERRING VET**

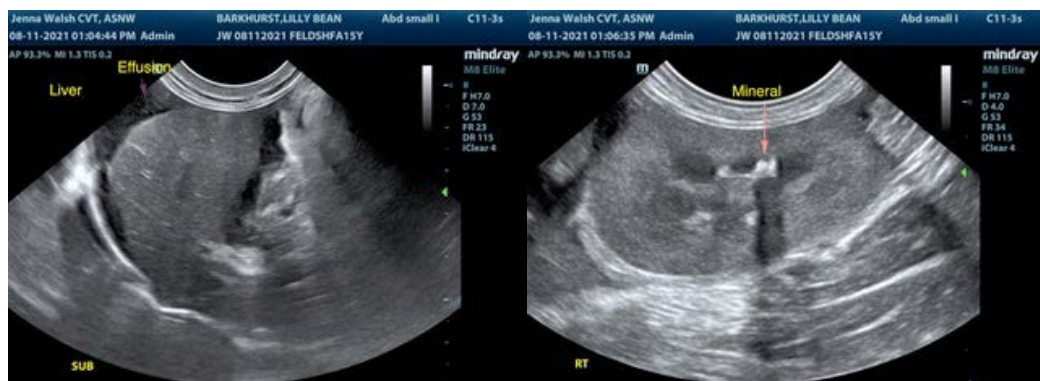
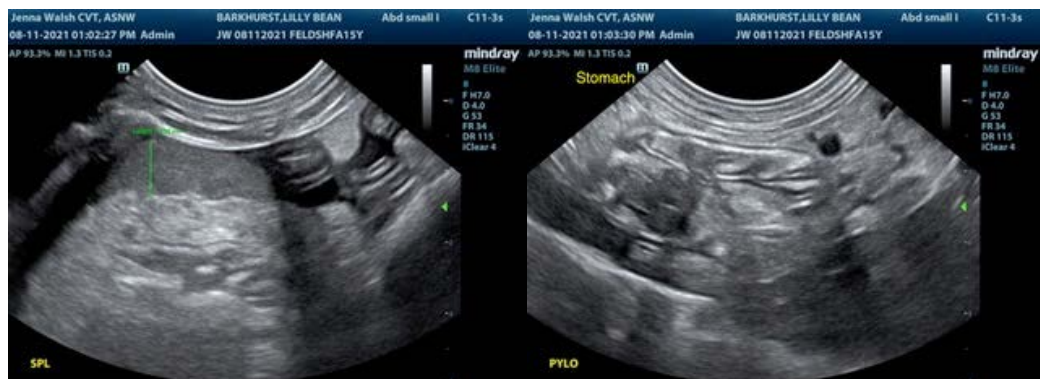
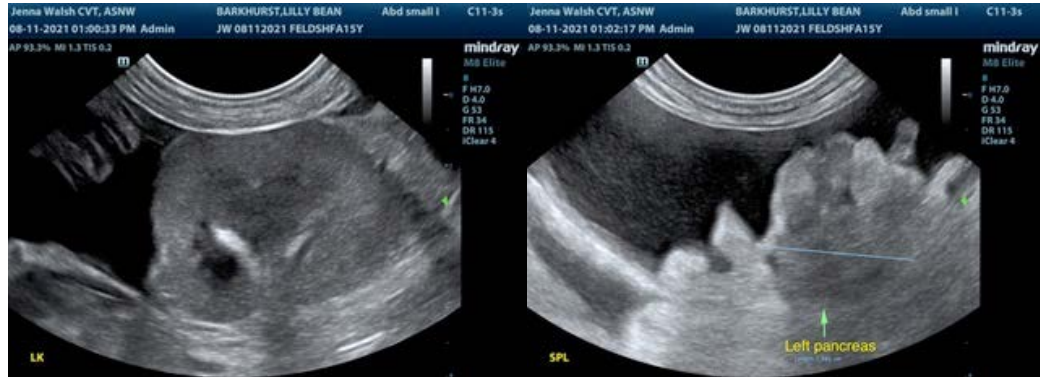
Dr. Barbara Brasted-Maki

**INVOICE**

24557

**DATE**

8/11/21





**PATIENT**

Lilly Bean Barkhurst

**SPECIES**

Feline

**BREED**

DSH

**SEX**

Spayed Female

**AGE**

15 Years

**WEIGHT**

8.5

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Jenna Walsh

**HOSPITAL NAME**

Santa Clara AH

**REFERRING VET**

Dr. Barbara Brasted-  
Maki

**INVOICE**

24557

**DATE**

8/11/21



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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)  
info@SonoPath.com