



**PATIENT**

Makena Keough

**SPECIES**

Canine

**BREED**

Golden Retriever

**SEX**

Female, spayed

**AGE**

8 Yrs.

**WEIGHT**

71.6 lbs.

**INTERPRETED BY**

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

**IMAGING  
PERFORMED BY**

Dr. Saum Hadi

**HOSPITAL NAME**

Bethany Family Pet  
Clinic

**REFERRING VET**

Dr. Saum Hadi

**INVOICE**

12923

**DATE**

1/31/22

**PRESENTING CLINICAL SIGNS**

History: P presents for diarrhea of one week duration that worsened to hematochezia in the last 24 hours. P otherwise BAR; still has appetite, acting normally.

Abnormal PE/Chem/CBC/UA Results: Chem 17 + CBC + Lytes + cPL snap: Mild increase in ALT (177 U/L) and GGT (28 U/L). ALT 25 U/L in April 2021.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

*Urinary System*

The urinary bladder, trigone, and pelvic urethra are normal in thickness and the mucosal surface is smooth. The bladder lumen is distended with 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.

The left kidney is normal size (6.68 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with mild to moderate loss of corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

No images are provided for the right kidney.

*Adrenal Glands*

The left adrenal gland is normal size (0.62 cm at cranial pole) (0.64 cm at caudal pole) (2.73 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.

No images are provided for the right adrenal gland.

*Spleen*

The spleen is normal in size (1.54 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.

*Liver*

The liver is subjectively normal in size with normal curvilinear peripheral contours. The parenchyma is hypoechoic relative to the spleen with minor changes consistent with age-related remodeling. No focal lesions are observed. Hepatic vasculature and biliary tracts are of normal volume with no evidence of congestion. The gall bladder lumen is moderately distended. The wall is thin and smooth. Luminal contents are anechoic. The cystic and common bile ducts are normal/not seen.

*Gastrointestinal*

The gastric lumen is moderately distended with ingesta and soft shadowing material. The gastric wall is normal in thickness with a normal layering pattern. The small intestinal lumen is segmentally dilated with gas and chyme. The small intestinal wall thickness is normal with a normal layering pattern and appropriate mural detail. There is slight disruption in the normal 1:3 muscularis: mucosal ratio in some segments. Discreet masses are not identified. The colonic wall is normal. The colonic lumen contains shadowing fecal material. No obstructive disease is noted.



**PATIENT**

***Pancreas***

Makena Keough

The region of the pancreas is isoechoic relative to surrounding omental fat. No obvious parenchymal abnormalities are observed. There is no evidence of regional inflammation or effusion.

**SPECIES**

Canine

***Free Abdomen***

The peritoneal cavity is normal. There is no evidence of inflammation or effusion. 1-2 prominent mesenteric lymph nodes are observed, the largest measuring 2.79 cm in length. The nodes are normal in shape and echogenicity.

**BREED**

Golden Retriever

**SEX**

Female, spayed

**Primary Findings:**

- Small intestinal wall changes consistent with inflammatory bowel disease with lower potential for emerging lymphoma.
- The lymph node changes are most consistent with reactive lymphadenitis or lymphoid hyperplasia.

**AGE**

8 Yrs.

**Secondary Findings:**

- The hepatic changes are consistent with age-related parenchymal remodeling and are not considered clinically significant at this time.
- Mild degenerative changes in the left kidney.
- The gastric luminal contents are consistent with ingesta +/- foreign material (i.e., grass). Correlation with clinical findings is recommended.

**WEIGHT**

71.6 lbs.

**INTERPRETED BY**

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

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

- Imaging of the right kidney and right adrenal gland are recommended to complete the study.
- Regarding the patient's clinical signs, consider the following:
  1. A fecal evaluation for ova/Giardia, if not already performed.
  2. Consider a fecal PCR infectious disease panel.
  3. Prophylactic deworming with Fenbendazole at 50 mg/kg once a day for 5 days is recommended. Repeat above protocol in 3 weeks.
  4. Consider empirical treatment for small intestinal bacterial overgrowth with a 4 week course of Tylosin.
  5. Consider a GI panel (sent to Texas A&M).
  6. A resting cortisol level to screen for hypoadrenocorticism. If resting cortisol level is < 2.0 mcg/dL, an ACTH stimulation test is recommended

**IMAGING PERFORMED BY**

Dr. Saum Hadi

**HOSPITAL NAME**

Bethany Family Pet  
Clinic

**REFERRING VET**

Dr. Saum Hadi

**INVOICE**

12923

**DATE**

1/31/22



## PATIENT

Makena Keough

- If the patient does not respond to the above therapeutics and clinical signs persist, consider a limited antigen diet trial +/- endoscopic or surgical gastrointestinal biopsies.

## SPECIES

Canine

## BREED

Golden Retriever

## SEX

Female, spayed

## AGE

8 Yrs.

## WEIGHT

71.6 lbs.

## INTERPRETED BY

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

## IMAGING PERFORMED BY

Dr. Saum Hadi

## HOSPITAL NAME

Bethany Family Pet  
Clinic

## REFERRING VET

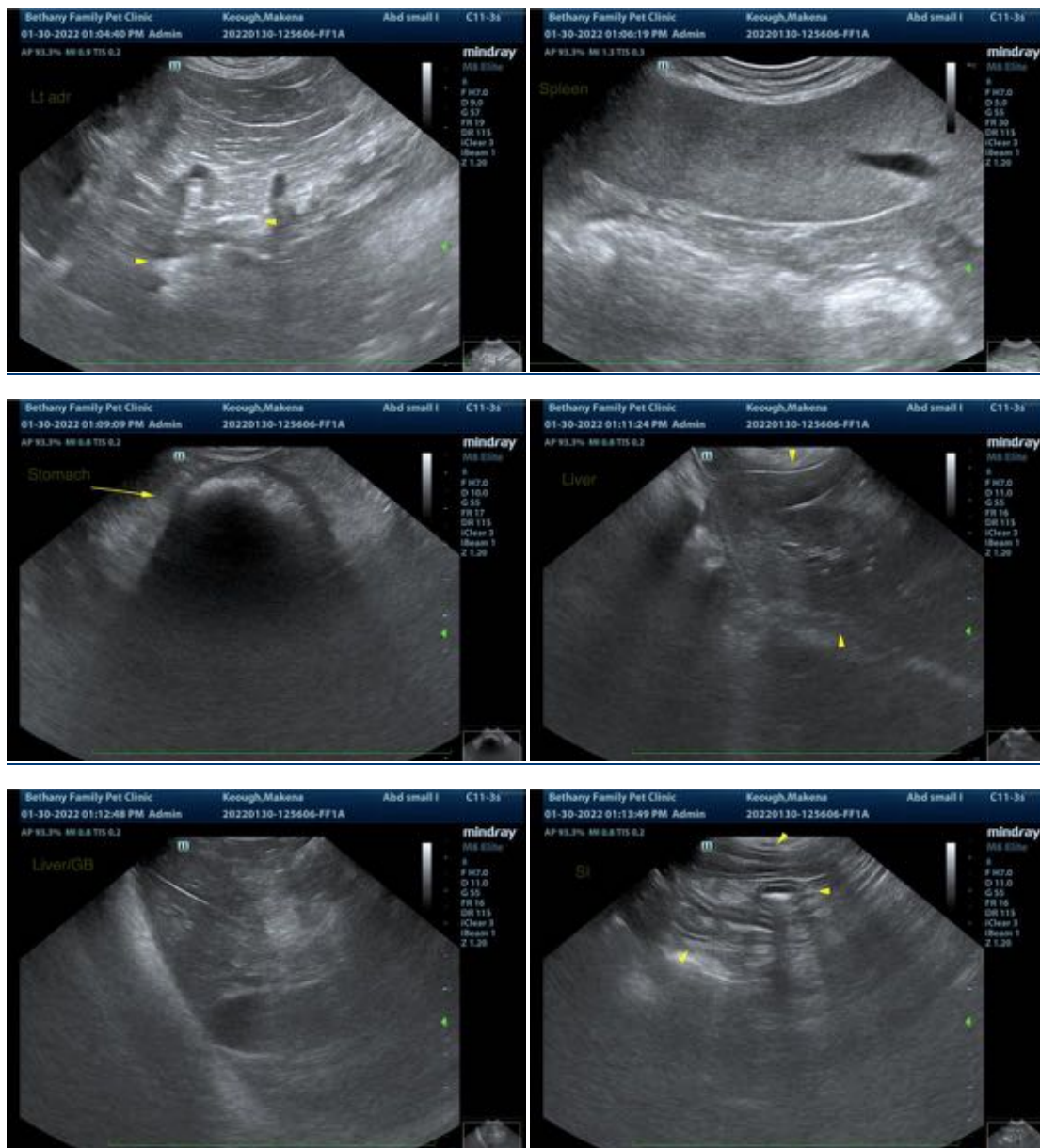
Dr. Saum Hadi

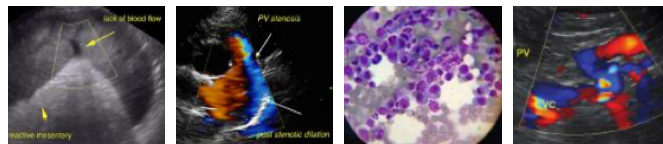
## INVOICE

12923

## DATE

1/31/22





**PATIENT**

Makena Keough

**SPECIES**

Canine

**BREED**

Golden Retriever

**SEX**

Female, spayed

**AGE**

8 Yrs.

**WEIGHT**

71.6 lbs.

**INTERPRETED BY**

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

**IMAGING  
PERFORMED BY**

Dr. Saum Hadi

**HOSPITAL NAME**

Bethany Family Pet  
Clinic

**REFERRING VET**

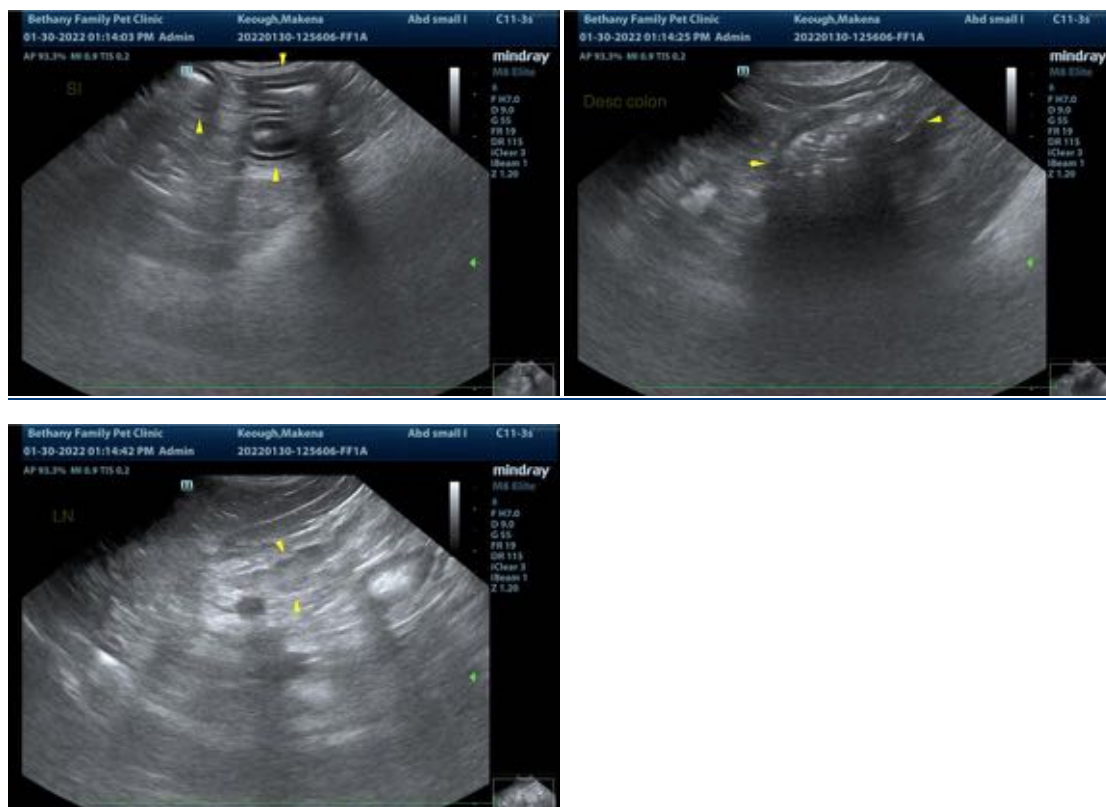
Dr. Saum Hadi

**INVOICE**

12923

**DATE**

1/31/22



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.

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

Andrea.nicastro@sonopath.com