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|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PATIENT</b>                    | <b>PRESENTING CLINICAL SIGNS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Rolo Morin                        | Did not eat anything November 16, lethargic, vomiting, diarrhea -possible occ vomiting in the past as well (other cat in household) Meds: Buprenorphine Slow Release, convenia, metronidazole                                                                                                                                                                                                                                                                                                              |
| <b>SPECIES</b>                    | Abnormal PE/Chem/CBC/UA Results: severe neutropenia, moderate monocytosis. Mild hyperglycemia, mild decrease in creatinine and urea, mild increase in ALT, mild hypokalemia, FPL abnormal. Rads unremarkable.                                                                                                                                                                                                                                                                                              |
| 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. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted.                                                                                                                                             |
| FS                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AGE</b>                        | The area of the aortic trifurcation was free of pathology.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 8 yrs                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>WEIGHT</b>                     | Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 3.3 cm in length. The right kidney measured 3.3 cm in length.                                                                   |
| 3.31 kg                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>INTERPRETED BY</b>             | <b>Adrenal Glands</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| R. McKenzie Daniel,<br>DVM, DABVP | The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.36 cm width. The right adrenal gland was indistinctly visualized yet without overt pathology. The right adrenal gland subjectively measured 0.39 cm width.                                                                                                                                                                                                                |
| <b>IMAGING PERFORMED BY</b>       | <b>Spleen</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Crystal Hill                      | 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 0.64 cm width at the level of the hilus. No evidence of splenic neoplastic criteria. |
| <b>HOSPITAL NAME</b>              | <b>Liver/ Gallbladder</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Buck 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 indistinctly visualized potentially owing to subnormal size secondary to the presence of gastric ingesta. The cystic and common bile ducts were normal.                                                                     |
| <b>REFERRING VET</b>              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Dr. Morin                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>INVOICE</b>                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 15557                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>DATE</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 11/22/22                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



**PATIENT**

Rolo Morin

***Gastrointestinal***

**SPECIES**

Feline

The visible gastric walls exhibited intact wall layering without mural pathology or hypertrophy. The stomach contained echogenic to progressively shadowing ingesta suggestive of a hairball density or similar without overt evidence of obstruction to pyloric outflow.

**BREED**

DSH

The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. Segmental non-shadowing intestinal ingesta / chyme was present with no evidence of intestinal mechanical / metabolic ileus or overt intestinal foreign material. No evidence of loss of intestinal wall layering.

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

**SEX**

***Pancreas***

FS

The parenchyma of the left limb, body, and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease were evident.

**AGE**

8 yrs

***Free Abdomen***

No omental masses, lymphadenopathy, or evidence of peritoneal free fluid were noted.

**WEIGHT**

3.31 kg

**ULTRASONOGRAPHIC FINDINGS**

- Shadowing gastric ingesta - post prandial presentation with potential for hairball density or similar
- Overtly normal small bowel / pancreas
- Low-grade hepatopathy - benign

**INTERPRETED BY**

R. McKenzie Daniel,  
DVM, DABVP

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Aside from potential gastric hairball density or similar, no overt evidence of gastrointestinal structural pathology or sonographic evidence of active pancreatitis. Correlation with most recent meal ingestion is suggested. However, if documented NPO, in light of patient history, hairball density or similar in the stomach is of concern.

Likewise, structurally unremarkable inflammatory gastrointestinal disease, low-grade to chronic pancreatitis, both of which may present as sonographically normal, could be possible.

Further assessment may include; hospitalization with 24/hour IV fluid and gastrointestinal support with monitoring of gastric emptying +/- hairball therapy if clinically indicated. In conjunction with abnormal fPL, assessment of Cobalamin/Folate levels may be considered to assess occult intestinal disease as a contributing factor. Three-view chest radiographs are also suggested to rule out thoracic pathology as a contributing factor. CBC pathology review may be considered.

**IMAGING PERFORMED BY**

Crystal Hill

**HOSPITAL NAME**

Buck AH

**REFERRING VET**

Dr. Morin

**INVOICE**

15557

**DATE**

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**PATIENT**

Rolo Morin

**SPECIES**

Feline

**BREED**

DSH

**SEX**

FS

**AGE**

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**WEIGHT**

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PERFORMED BY**

Crystal Hill

**HOSPITAL NAME**

Buck AH

**REFERRING VET**

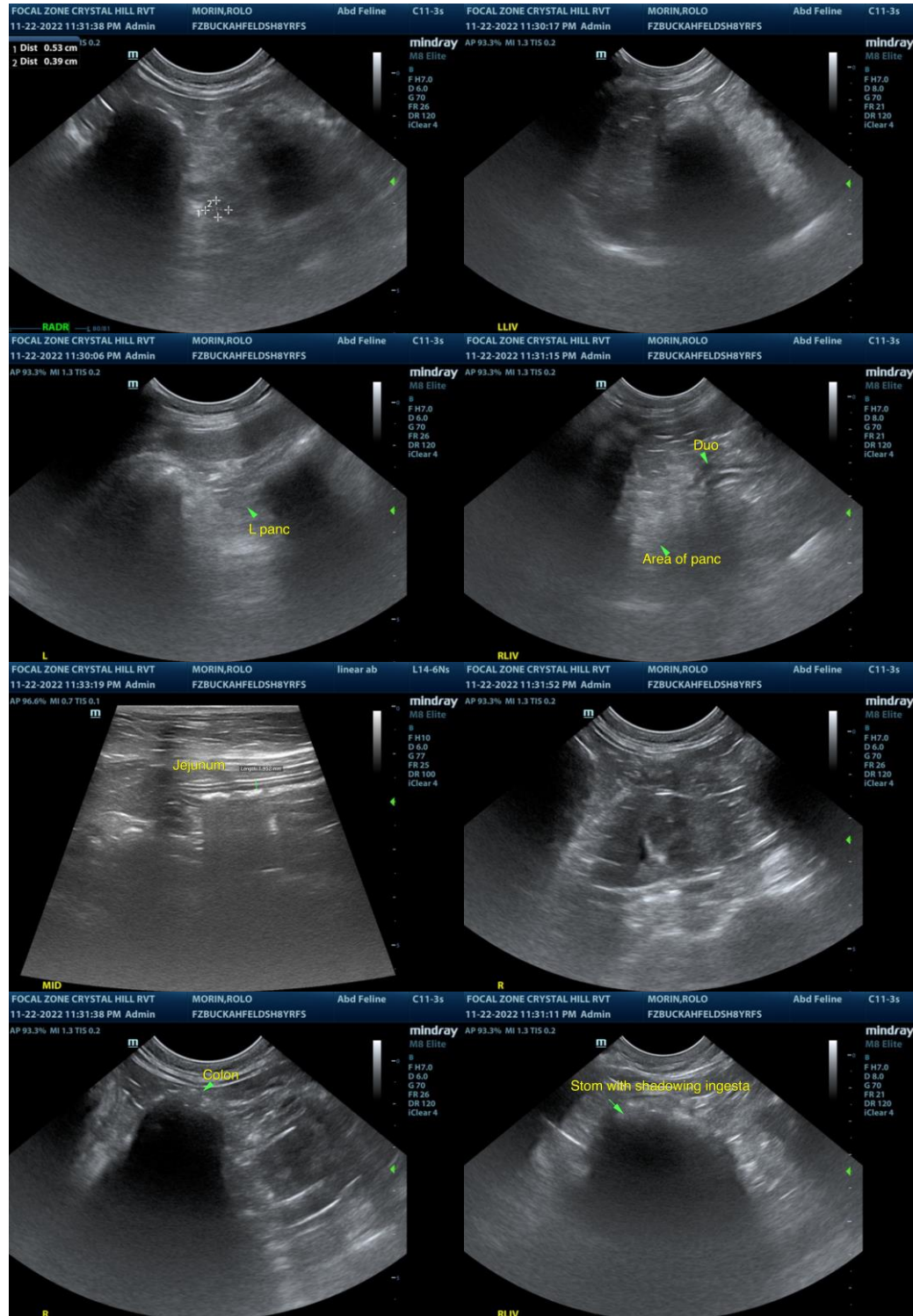
Dr. Morin

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**PATIENT**

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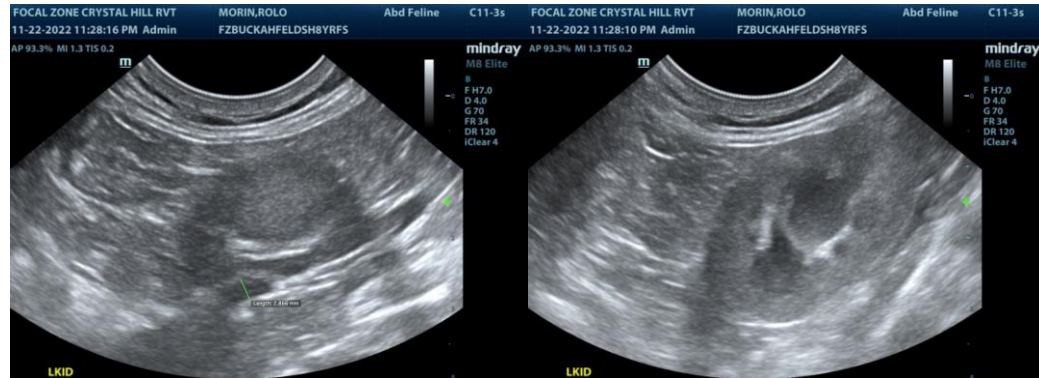
Dr. Morin

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**DATE**

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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.

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