

🏠 Diagnostic Result

Chemistry(2)

**Outcome**

Test	Results	Unit	Lowest Value	Highest Value	Qualifier
Cobalamin (B-12)	633	ng/L	276	1425	
Folate	20.4	ug/L	8.9	19.9	

*Increased serum folate is seen in patients with EPI and/or small intestinal bacterial overgrowth.*

Chemistry(2)

**Outcome**

See B12/folate for outcome

Test	Results	Unit	Lowest Value	Highest Value	Qualifier
Spec fPL	0.8	µg/L		4.4	

Urinalysis(3)

**Outcome**

See B12/folate for outcome

Test	Results	Unit	Lowest Value	Highest Value	Qualifier
Collection	CYSTOCENTESIS				
Color	YELLOW				
Clarity	CLOUDY				
Specific Gravity	1.025		1.035		
<i>Potentially inappropriate concentration. Consider hydration status and, if persistent and inappropriate, renal disease, endocrinopathies, and medications.</i>					
pH	6.0		6	7.5	
Urine Protein	1+				
Glucose	NEGATIVE				
Ketones	NEGATIVE				
Blood / Hemoglobin	2+				
Bilirubin	NEGATIVE				
Urobilinogen	NORMAL				
White Blood Cells	0-2	HPF			

Test	Results	Unit	Lowest Value	Highest Value	Qualifier
Red Blood Cells	> 100	HPF			>
Bacteria	NONE SEEN				
Epithelial Cells	RARE (0-1)				
Mucus	NONE SEEN				
Casts	NONE SEEN				
Crystals	NONE SEEN				
Other	<i>LIPID DROPLETS PRESENT.</i>				

Chemistry(2)

Test	Results	Unit	Lowest Value	Highest Value	Qualifier
Glucose	124	mg/dL	74	159	
Creatinine	1.5	mg/dL	0.8	2.4	
BUN	22	mg/dL	16	36	
BUN: Creatinine Ratio	15				
Phosphorus	4.5	mg/dL	3.1	7.5	
Calcium	9.6	mg/dL	7.8	11.3	
Sodium	156	mmol/L	150	165	
Potassium	5.3	mmol/L	3.5	5.8	
Na: K Ratio	29				
Chloride	117	mmol/L	112	129	
Total Protein	8.2	g/dL	5.7	8.9	
Albumin	3.0	g/dL	2.2	4	
Globulin	5.2	g/dL	2.8	5.1	
Albumin: Globulin Ratio	0.6				
ALT	79	U/L	12	130	
ALP	13	U/L	14	111	
GGT	0	U/L		4	
Bilirubin - Total	0.6	mg/dL		0.9	
Cholesterol	129	mg/dL	65	225	
Amylase	1,058	U/L	500	1500	
Lipase	276	U/L	100	1400	
Osmolality	315	mmol/kg			

# Chemistry



2/5/24

2:04 PM

TEST	RESULT	REFERENCE VALUE	
Glucose	124	74 - 159 mg/dL	
Creatinine	1.5	0.8 - 2.4 mg/dL	
BUN	22	16 - 36 mg/dL	
BUN: Creatinine Ratio	15		
Phosphorus	4.5	3.1 - 7.5 mg/dL	
Calcium	9.6	7.8 - 11.3 mg/dL	
Sodium	156	150 - 165 mmol/L	
Potassium	5.3	3.5 - 5.8 mmol/L	
Na: K Ratio	29		
Chloride	117	112 - 129 mmol/L	
Total Protein	8.2	5.7 - 8.9 g/dL	
Albumin	3.0	2.2 - 4.0 g/dL	
<b>Globulin</b>	<b>5.2</b>	<b>2.8 - 5.1 g/dL</b>	H
Albumin: Globulin Ratio	0.6		
ALT	79	12 - 130 U/L	
<b>ALP</b>	<b>13</b>	<b>14 - 111 U/L</b>	L
GGT	0	0 - 4 U/L	
Bilirubin - Total	0.6	0.0 - 0.9 mg/dL	
Cholesterol	129	65 - 225 mg/dL	
Amylase	1,058	500 - 1,500 U/L	
Lipase	276	100 - 1,400 U/L	
Osmolality	315	mmol/kg	

## History

Relevant history: Hx: 6YO SF DSH with history of inappetence over last 3 weeks. Diarrhea with blood and melena observed once. Missy was presented to the referral partner on 1/27/24 for vocalizing and acting like she was painful. No significant response to prednisolone, ondansetron, maropitant injections, gabapentin and mirtazapine. Labwork assessed on 1/24/24 was normal except for a hyperglobulinemia and hepatocellular hepatopathy (ALT 138). No urinalysis obtained. Abdominal radiographs and abdominal ultrasound performed at RP when presented for the vocalizing on 1/27/24. Abdominal ultrasound report stated normal liver, spleen, kidneys and bladder. Stomach wall thickened and irregular with some areas that seem hyperechoic. Mural thickness between 10-12 mm in many places.

Specific questions for radiologist to address regarding the study: Cause for clinical signs? Appearance of the GI tract. Appearance of the liver/gallbladder.

Pertinent labwork: Summarized above - 1/24/24 – CBC – inc MCHC 36.8Chem – inc glob 5.3, inc ALT 138, fecal with giardia – neg

Pertinent physical examination findings: Fluidy sounds appreciated on palpation of the neck. Painful on palpation of the abdomen which is most significant in the caudal abdomen. She will attempt to escape or curl up and avoid.

Is the patient an infectious/zoonotic disease risk? No

## Findings

Ultrasonographic Findings. No comparison images are found.

Liver: NSA

Gall Bladder: NSA

Spleen: NSA

Left Kidney: Slightly undulating cortical margins.

Right Kidney (4 cm long): Slightly undulating cortical margins and small cortical wedge-shaped hyperechogenicity with associated cortical depression.

Urinary Bladder: NSA

Left Adrenal: NSA

Right Adrenal: NSA

Stomach: Small and collapsed, containing a small volume of hypoechoic fluid. No wall thickening is noted.

Small Intestine: NSA

Colon: NSA

Pancreas: The left pancreas is normal. Hyperechoic fat is seen in the region of the right pancreas.

Peritoneum: Hyperechoic fat surrounds the stomach, pyloric outflow tract and proximal descending duodenum.

Lymph Nodes: The pancreaticoduodenal lymph node is rounded and hypoechoic, measuring 0.5 cm in diameter.

Reproductive Tract (spayed female): Not seen.

Special Procedures: Cystocentesis was performed under ultrasound guidance without immediate complication.

## Conclusions

1. Nonspecific cranial abdominal steatitis, notably surrounding the stomach and right pancreas, and mild likely reactive (less likely neoplastic) pancreaticoduodenal lymphadenopathy. The stomach and pancreas are structurally normal; however, given regional steatitis, gastritis and/or pancreatitis remain possible.
2. Mild bilateral renal degeneration.

---

2/6/24 (Order Received)  
2/6/24 5:02 AM (Last Updated)

TEST	RESULT	REFERENCE VALUE	
Collection	CYSTOCENTESIS		
Color	YELLOW		
Clarity	CLOUDY		
<b>Specific Gravity</b>	<sup>a</sup> <b>1.025</b>	<b>&gt;= 1.035</b>	
pH	6.0	6.0 - 7.5	<input type="text"/>
<b>Urine Protein</b>	<b>1+</b>		
Glucose	NEGATIVE		
Ketones	NEGATIVE		
<b>Blood / Hemoglobin</b>	<b>2+</b>		
Bilirubin	NEGATIVE		
Urobilinogen	NORMAL		
White Blood Cells	0-2	HPF	
<b>Red Blood Cells</b>	<b>&gt; 100</b>	<b>HPF</b>	
Bacteria	NONE SEEN		
Epithelial Cells	RARE (0-1)		
Mucus	NONE SEEN		
Casts	NONE SEEN		
Crystals	NONE SEEN		

---

## Chemistry



2/6/24 (Order Received)

2/6/24 10:06 AM (Last Updated)

TEST	RESULT	REFERENCE VALUE	
Spec fPL	0.8	0.0 - 4.4 µg/L	

IDEXX Services: **Cobalamin (Vitamin B12) and Folate\***

## Chemistry



2/6/24 (Order Received)

2/6/24 6:32 PM (Last Updated)

TEST	RESULT	REFERENCE VALUE	
Cobalamin (B-12)	633	276 - 1,425 ng/L	
<b>Folate</b>	<sup>a</sup> <b>20.4</b>	<b>8.9 - 19.9 ug/L</b>	H

<sup>a</sup> Increased serum folate is seen in patients with EPI and/or small intestinal bacterial overgrowth.