

Gastrointestinal Disease Report



VDI Lab Services
 4685 Runway St. Ste K Simi Valley, CA 93063
 ph: 805-577-6742 fax: 805-426-8115

PATIENT NAME: Cinnamon Moloney
SPECIMEN ID: 176576
SPECIES: Canine
GENDER: Female Spayed
AGE: 12.0
WEIGHT: 6.6 lb
BREED: Chihuahua

MRN: 1102331
DRAW DATE: 6-Mar-23
RECEIVED DATE: 9-Mar-23
REPORT DATE: 10-Mar-23
SAMPLE TYPE: Frozen Serum

VETERINARIAN:
FACILITY:

Gastrointestinal Disease - Dashboard

Related Tests

B12 Low Normal 378.1 Normal: 220-1080 pg/mL	Folate Normal 7.8 Normal: 4.3 - 21.0 ng/mL	Vitamin D Insufficient 58.1 Sufficiency: 100-150 ng/mL	Magnesium Normal 2.5 Normal: 1.7-2.9 mg/dL	Allergies Not Tested	
CRP Moderate 19.2 Normal: ≤ 4.0	TK1 High 10.3 Normal: <3.0 U/L	Neoplasia Index Positive 7.8 Negative: ≤ 5.2	cPL Positive 458.7 Normal: <200 ng/mL		Addison's Cortisol Not Tested Normal: 2 - 6 ug/dL
Total Protein Low 5.6 Range: 5.8 - 8.8 g/dL	Albumin Low 2.2 Range: 2.9 - 4.3 g/dL	Globulin Normal 3.4 Range: 2.7 - 4.6 g/dL	A/G Ratio Low 0.6 Range: 0.7 - 1.5		

Interpretation of results based upon patient exhibiting GI signs

Chronic Enteropathy 3523

LSA	Moderate Confidence
LSA clinical score: 1 out of 4 ✓Wt Loss, Vomiting, Diarrhea, Inappetance	
Pattern is consistent with LSA. Patient has a positive Neoplasia Index and should be evaluated. An ultrasound is recommended. See report for details.	Confidence Factors pos NI high TK1 pos inflam low B12

Pancreatitis 3421

Detected	Moderate Confidence
Pancreatitis clinical score: 1 out of 4 ✓Wt Loss, Lethargy, Vomiting, Abd pain	
While pancreatic lipase is positive indicating pancreatitis, it may be concurrent with other disease.	Confidence Factors pos cPL low B12

Protein Losing Enteropathy 2221

Suspicious	Monitor
Suspicious but not definitive. While Albumin is low, other parameters are not fully supportive. Recommend monitoring patient.	

Essential Vitamins 2121

Deficiencies Detected	Suppl Warranted
Patient has been found to have deficiencies with recommended supplementation on attached report.	

Reviewer Comments - need consult? email consult@vdiilab.com

IHMA can cause elevated TK1/CRP. Please rule in/out.	
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Relevant Context (provided on TRF)

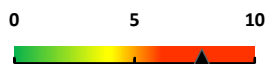
_____ **Corticosteroids** _____ **Antibiotics**
 _____ **NSAIDs** _____ **Suspected Mass**
 Yes _____ **GI Signs** _____ **Enlarged Node**

Other Recommended Tests or Procedures to Perform
 ultrasound

need consult? email consult@vdiilab.com

Neoplasia Index®

cGI.LSA
Positive
7.8
 Index



Negative: ≤ 5.2
 Equivocal: 5.3
 Positive: 5.4 - 8.1
 High Positive: ≥ 8.2

Interpretive Comments

Results are consistent with LSA

Patient has a positive Neoplasia Index indicative of lymphoma. This profile of TK1/ CRP/ B12 is consistent with GI LSA. An ultrasound is recommended.

TK1
High
10.3
 U/L



Normal: ≤ 3.0
 Equivocal: ≤ 6.6
 High: 6.6 - 24.9
 Highly Elevated: ≥ 25.0

Interpretive Comments

Elevated TK1 levels along with moderately elevated inflammation are commonly found in LSA. If the patient is on corticosteroids, both TK1 and CRP may be higher as these medications suppress the inflammatory and proliferative response.

CRP
Moderate
19.2
 mg/L



Normal: ≤ 3.9
 Mild Inflammation: 4 - 9.9
 Moderate Inflammation: 10 - 39.9
 High Inflammation: ≥ 40

Cobalamin	Folate
Low Normal	Normal
378.1	7.8
pgm/L	ng/mL

Low: <220
 Low Normal: 220 - 400
 Normal: 220 - 1080
 High: ≥1080

Low: <4.3
 Normal: 4.3 - 21.0
 High: >21.0

Interpretive Comments

Patient has low normal B12 and normal Folate. Increase supplement as indicated and retest in 8-10 weeks.

Contextual Comments (if needed)

profile code 42330 **LSA**

* The classification of LSA is based upon test result profiling and should not be considered definitive. It is most reliable in the untreated dog. Patient disease classification will be affected if the patient is on corticosteroids or other anti-inflammatory or anti-proliferative medications. An ultrasound is always recommended and should be supportive of test results. If ultrasound and test results conflict, it is recommended the test be repeated in 3-4 weeks with the patient off of corticosteroids. If the test requisition indicates the patient is on corticosteroids, the Neoplasia Index will be adjusted for the effect medication may have on TK1/HPT. For definitive disease classification (eg, small cell, large cell), a biopsy is required.

Vitamin D Report

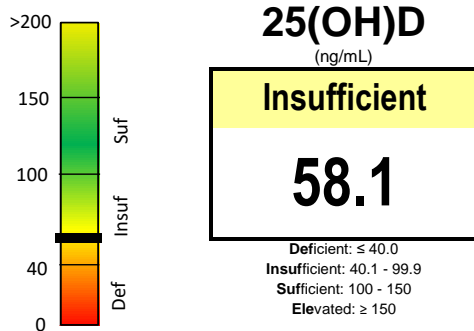


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Dose at time of draw:

Not Provided

Increase dose by:

200 IU/day



New Recommended Dose Range

Low End Sufficiency (~100 ng/mL)	High End Sufficiency (~130 ng/mL)
200 IU/day	300 IU/day
For most patients without underlying conditions, or taking corticosteroids	For patients that warrant a higher VitD level and/or those on corticosteroids.

Patient History

ID	Date	Result ng/mL	Known Dose iu/day

Interpretive Comments - need consult? email consult@vdlab.com

Your patient is found to be insufficient. Insufficiency increases risk of developing other serious diseases. Current supplementation was not provided, so increase/start patient on D3 supplement per recommendations and retest in 8-10 weeks or 4 months for obese patients.

If any of the following occur, wait 2 months from the date of change, then retest:

- Major Diet Change
- Change in Health Status (eg PLE)
- Change of Vitamin D supplement or daily treats
- Supplementation is stopped for longer than 4 weeks
- Patient is put on Corticosteroids
- Patient is put on NSAIDS

Supplementation Guide

Total Dose Recommended:		200 IU/day	↔	300 IU/day
*Choose only one product for supplementation				
PRODUCT NAME	PRODUCT STRENGTH	PRODUCT FORMAT	Low End Dose	High End Dose
RxD3 <i>Rx Vitamins</i>	100 IU/ drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/> 2 drops/day	<input type="checkbox"/> 3 drops/day
RxD3 Forte <i>Rx Vitamins</i>	500 IU/ drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/>	<input type="checkbox"/> 1 drop/day

Retest NO SOONER THAN: May 19, 2023

B12 (Cobalamin) Report

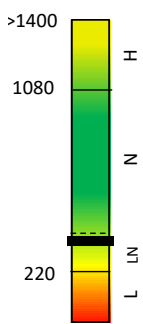


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Cobalamin (pg/mL)

Low Normal
378.1

Low (L): <220
Low Normal (LN): 220 - 400
Normal (N): 220 - 1080
High (H): ≥1080

B12 Dose at time of draw:

Not Provided

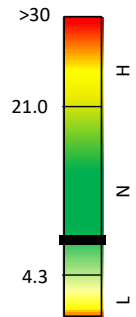
Increase B12 dose by:

36 mcg/day



New Recommended B12 Dose

Fasted Sample?	Fasted
36 mcg/day	
B12 dosing recommendations are for daily supplementation. Continue indefinitely unless changes in health or diet require modification.	



Folate (ng/mL)

Normal
7.8

Low (L): <4.3
Normal (N): 4.3 - 21.0
High (H): > 21.0

Patient History

ID	Date	B12 pg/mL	Folate ng/mL	Known B12 Dose mcg/day

Folate vs Cobalamin Plot

Folate	High	SIBO Excess Dietary Folate		Excess Supplementation
	Normal	Low Dietary B12 CP / EPI / IBD / LSA Distal SI Damage	Normal	Excess Supplementation Cholangitis
	Low	Small Intestinal Damage CP / EPI / IBD / LSA	Proximal SI Damage Dysbiosis Antibiotics	Proximal SI Damage Antibiotics / LSA / Cholangitis
		Low	High	

Cobalamin

chart assumes unsupplemented patient

need consult? email consult@vdiilab.com

Comments

Patient has low normal B12 and normal Folate. Increase supplement as indicated and retest in 8-10 weeks.

Total B12 Dose Recommended:

36 mcg/day

PRODUCT NAME	PRODUCT STRENGTH	PRODUCT FORMAT	Drops Dose	mL Dose
RxB12 <i>Rx Vitamins</i>	250 mcg/mL 6.5 mcg/drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/> 6 drops/day	<input type="checkbox"/> 0.25 mL/day
RxB12 Forte <i>Rx Vitamins</i>	1000 mcg/mL 33 mcg/drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/> 2 drops/day	<input type="checkbox"/>

*Choose only one product for supplementation

Retest NO SOONER THAN:

May 18, 2023

Magnesium Report



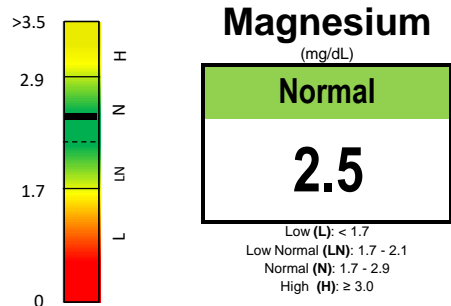
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Dose at time of draw: 0 mg/day
Increase Dose By: 0 mg/day

New Recommended Dose

MagRatio	Not Available
0 mg/day	

Magnesium dosing recommendations are for daily supplementation. Continue indefinitely unless changes in health or diet require modification.

Patient History

ID	Date	Result m g/dL	Known Dose mg/day

Interpretive Comments - need consult? email consult@vdlab.com 314

Patient has Normal Magnesium levels. Maintain current diet and retest in 1 year unless diet or health changes occur.

Supplementation Guide

Total Dose Recommended:		0 mg/day		
PRODUCT NAME	PRODUCT STRENGTH	PUMP VOLUME	PRODUCT FORMAT	Dose
Magnesium Lotion for Pets <i>Magnum Solace</i>	50 mg/mL	0.23 mL/pump 11.5 mg/pump	Topical Lotion	<input type="checkbox"/>
Other				<input type="checkbox"/>

Additional Reviewer Comments - need consult? email consult@vdlab.com

Retest NO SOONER THAN: