

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: Carmichael Fowles
SPECIMEN ID: 175482
SPECIES: Feline
GENDER: Male Neutered
AGE: 9.0
WEIGHT: 10.9 lb
BREED: DSH

MRN: 1102102
DRAW DATE: 28-Feb-23
RECEIVED DATE: 3-Mar-23
REPORT DATE: 8-Mar-23
SAMPLE TYPE: Frozen Serum

VETERINARIAN:
FACILITY:

Gastrointestinal Disease - Dashboard

Gastrointestinal Disease - Dashboard				Related Tests	
B12 Low 263.1 Normal: 268-1478 pg/mL	Folate Normal 10.2 Normal: 7.3 - 21.6 ng/mL	Vitamin D Sufficient 117.1 Sufficiency: 100-150 ng/mL	Magnesium Low 1.9 Normal: 2.0-2.7 mg/dL	Allergies Not Tested	
HPT High 231.8 Normal: 25 - 64.9	TK1 Highly Elevated 28.4 Normal: <3.0 U/L	Neoplasia Index High Positive 9.2 Negative: ≤ 5.2	fPL Positive 6.2 Normal: ≤ 3.5		Addison's Cortisol Not Tested Normal: 1 - 5 ug/dL
Total Protein Normal 8.3 Range: 6.3 - 8.8 g/dL	Albumin Normal 2.6 Range: 2.5 - 3.9 g/dL	Globulin Normal 5.7 Range: 2.9 - 5.9 g/dL	A/G Ratio Normal 0.5 Range: 0.4 - 1.5		Cholangitis ALT ALP Not Tested ALT range: 7-80 U/L ALP range: 10-50 U/L

Interpretation of results based upon patient exhibiting GI signs

Chronic Enteropathy 4633

Adv LSA/ LSA Thorax	High Confidence
LSA clinical score: <i>Clinical signs not provided on TRF</i>	
Pattern consistent with advanced LSA and/or LSA of the thorax. An ultrasound is recommended. Highly elevated TK1 in FeLV+ cats often have LSA of the thorax - please evaluate patient.	Confidence Factors pos NI high TK1 pos inflam low B12

Pancreatitis 3431

Detected	High Confidence
Pancreatitis clinical score: <i>Clinical signs not provided on TRF</i>	
While pancreatic lipase is positive indicating pancreatitis, it may be concurrent with other disease.	Confidence Factors pos fPL low B12

Protein Losing Enteropathy 1111

Normal	No Action
There is no evidence the patient has PLE.	

Essential Vitamins 1331

Deficiencies Detected	Suppl Warranted
Patient has been found to have deficiencies with recommended supplementation on attached report. Low B12 may be associated with underlying GI disease.	

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

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Relevant Context (provided on TRF)

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

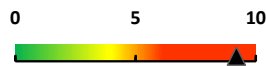
Other Recommended Tests or Procedures to Perform

need consult? email consult@vdiilab.com

Neoplasia Index®

fGI.LSA

High Positive
9.2
 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 high positive Neoplasia Index indicative of lymphoma. This profile of TK1/ HPT/ B12 is consistent with advanced LSA and/or LSA of the thorax*. An ultrasound is recommended.

TK1

Highly Elevated
28.4
 U/L



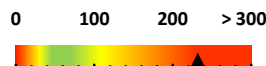
Normal: ≤ 3.0
 Equivocal: < 6.6
 High: 6.6 - 25.0
 Highly Elevated: ≥ 25.1

Interpretive Comments

Highly elevated TK1 (>25U/L) can be found in advanced GI lymphoma and/or LSA of the thorax. High levels of inflammation is consistent with advanced GI disease.

HPT

High
231.8
 mg/dL



Decreased: < 25
 Normal: 25 - 64.9
 Mild Inflamm (m): 65 - 225
 High Inflamm (H): ≥ 225.1

Cobalamin

Low
263.1
 pgm/L

Folate

Normal
10.2
 ng/mL

Low: <268
 Low Normal: 268 - 400
 Normal: 268 - 1478
 High: ≥1479

Low: <7.3
 Normal: 7.3 - 21.6
 High: > 21.6

Interpretive Comments

Patient has low B12 and normal Folate levels, sometimes associated with Low dietary intake, or damage to the distal portion of the small intestines. Disease such as EPI, IBD, or LSA may cause the SI damage. Supplement as indicated and retest in 8-10 weeks.

Contextual Comments (if needed)

profile code 43320 **ADV LSA and/or LSA THORAX** 9.7

* The classification of LSA is based upon test result profiling and should not be considered definitive. It is most reliable in the untreated cat. 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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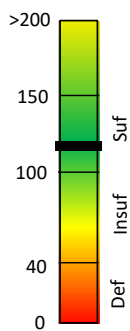
PH:

WEIGHT: 10.9 lb

SAMPLE TYPE: Frozen Serum

FAX:

BREED: DSH



25(OH)D
(ng/mL)

Sufficient

117.1

Deficient: ≤ 40.0
Insufficient: 40.1 - 99.9
Sufficient: 100 - 150
Elevated: ≥ 150

Dose at time of draw:

0 IU/day

Change dose by

0 IU/day



New Recommended Dose Range

Low End Sufficiency
(~100 ng/mL)

High End Sufficiency
(~130 ng/mL)

Not Required

100 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@vdilab.com

Your patient is found to be sufficient. Continue on the same diet and retest in 1 year unless one of the conditions below is met.

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:

Not Required

100 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"/>	<input type="checkbox"/> 1 drop/day
RxD3 Forte <i>Rx Vitamins</i>	500 IU/ drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/>	<input type="checkbox"/>

B12 (Cobalamin) Report

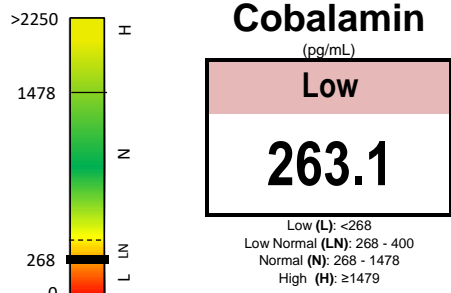


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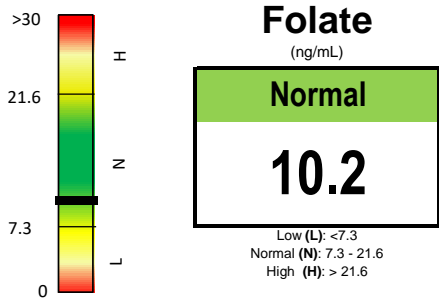
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In unfasted patients, actual B12 values may be lower, which may impact dose recommendation.



Folate vs Cobalamin Plot

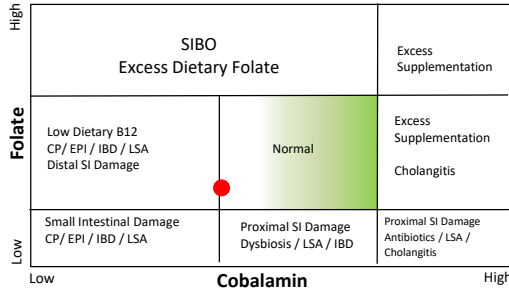
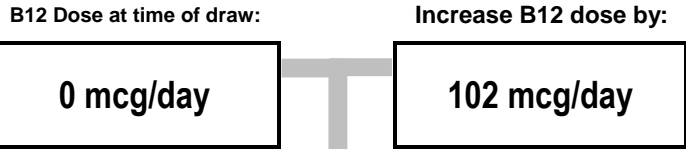


chart assumes unsupplemented patient



New Recommended B12 Dose

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

Patient History

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

need consult? email consult@vdlab.com

Comments

Patient has low B12 and normal Folate levels, sometimes associated with Low dietary intake, or damage to the distal portion of the small intestines. Disease such as EPI, IBD, or LSA may cause the SI damage. Supplement as indicated and retest in 8-10 weeks.

Total B12 Dose Recommended:

102 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"/> use mL dose	<input type="checkbox"/> 0.5 mL/day
RxB12 Forte <i>Rx Vitamins</i>	1000 mcg/mL 33 mcg/drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/> 4 drops/day	<input type="checkbox"/>

*Choose only one product for supplementation

Retest NO SOONER THAN: May 12, 2023

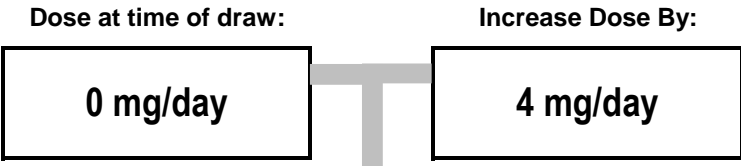
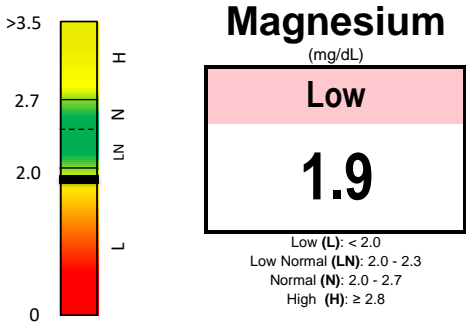


Magnesium Report

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New Recommended Dose

MagRatio	Not Available
4 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@vdi lab.com

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Patient has low Magnesium levels. Supplement as indicated. (Daily topical lotion is recommended). Retest in 90 days

Supplementation Guide

Total Dose Recommended:		4 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"/> 2 pumps/week
Other				<input type="checkbox"/>

Retest NO SOONER THAN: June 6, 2023