

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: Ziggy Smith
SPECIMEN ID: 172455
SPECIES: Canine
GENDER: Male Neutered
AGE: 9.0
WEIGHT: 10.6 lb
BREED: Chihuahua Mix

MRN: 1079744
DRAW DATE: 5-Mar-22
RECEIVED DATE: 10-Mar-22
REPORT DATE: 12-Mar-22
SAMPLE TYPE: Frozen Serum

VETERINARIAN:
FACILITY:
PH:
FAX:

Gastrointestinal Disease - Dashboard

<p>CRP</p> <p>Normal</p> <p>0.8</p> <p>Normal: ≤ 3.0</p>	<p>B12</p> <p>High</p> <p>1901.2</p> <p>Normal: 220-1080 pg/mL</p>	<p>Folate</p> <p>Normal</p> <p>17.3</p> <p>Normal: 4.3 - 21.0 ng/mL</p>	<p>Vitamin D</p> <p>Deficient</p> <p>10.1</p> <p>Sufficiency: 100-150 ng/mL</p>
<p>TK1</p> <p>High</p> <p>11.6</p> <p>Normal: <3.0 U/L</p>	<p>Neoplasia Index</p> <p>Negative</p> <p>3.0</p> <p>Negative: ≤ 5.2</p>	<p>cPL</p> <p>Positive</p> <p>Positive</p> <p>Idexx SNAP cPL</p>	<p>Magnesium</p> <p>Normal</p> <p>2.7</p> <p>Normal: 1.7-2.9 mg/dL</p>
<p>Total Protein</p> <p>Low</p> <p>5.4</p> <p>Range: 5.8 - 8.8 g/dL</p>	<p>Albumin</p> <p>Normal</p> <p>3.0</p> <p>Range: 2.9 - 4.3 g/dL</p>	<p>Globulin</p> <p>Low</p> <p>2.4</p> <p>Range: 2.7 - 4.6 g/dL</p>	<p>A/G Ratio</p> <p>Normal</p> <p>1.3</p> <p>Range: 0.7 - 1.5</p>

Interpretation of results based upon patient exhibiting GI signs

Chronic Enteropathy 5242

Negative	No Action
Pattern is inconsistent with IBD or LSA; pancreatitis is indicated. Since the patient is on short-term corticosteroids both TK1 and inflammation may be higher than stated.	

Pancreatitis 2131

Detected	Moderate Confidence
Pattern is consistent with pancreatitis.	

Protein Losing Enteropathy 3212

Detected	Evaluate Patient
Pattern is consistent with PLE. Deficient VitD is a prognostic risk factor. Recommend aggressive VitD supplementation to counter protein losing syndrome.	

Essential Vitamins 3141

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

Reviewer Comments



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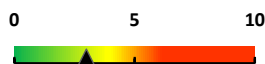
Relevant Context (provided on TRF)

<input type="checkbox"/> <6 mo	<input type="checkbox"/> Corticosteroids	<input type="checkbox"/> Antibiotics	<input type="checkbox"/> Suspected Mass	<input type="checkbox"/> Hypercalcemia
<input type="checkbox"/>	<input type="checkbox"/> NSAIDs	<input type="checkbox"/> Anemia	<input type="checkbox"/> Enlarged Node	<input type="checkbox"/> B12 Deficiency
<input type="checkbox"/>	<input type="checkbox"/> Chemotherapy	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Fever	<input type="checkbox"/> Known Disease

Neoplasia Index™

NI fGILSA

Negative
3.0
Index



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

TK1

High
11.6
U/L



Normal: ≤ 3.0
Equivocal: ≤ 6.6
High (H): 6.6 - 24.9
Highly Elevated (HE): ≥ 25.0

CRP

Normal
0.8
mg/L



Normal: ≤ 3.9
Mild Inflamm (m): 4 - 9.9
Mod Inflamm (M): 10 - 39.9
High Inflamm (H): ≥ 40

Cobalamin

High
1901.2
pgm/L

Folate

Normal
17.3
ng/mL

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

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

Interpretive Comments

Results are **INCONSISTENT** with GI LSA

Patient's Neoplasia Index is negative and inconsistent with intestinal lymphoma. This profile of TK1/ CRP/ B12 is consistent with possible pancreatitis/ other. An ultrasound is recommended.

Interpretive Comments

Results are consistent with: **possible PANCREATITIS/ OTHER**

Elevated TK1 with a normal inflammatory response can sometimes be found in mild pancreatitis. Since the patient is on short term corticosteroids (<6mos) this can suppress both TK1 and CRP potentially yielding a false negative.

Interpretive Comments

Patient has high B12 levels with normal Folate. Reduce supplementation as indicated and retest in 8-10 weeks.

Contextual Comments (if needed)

profile code 12151 possible PANCREATITIS/ OTHER

* 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

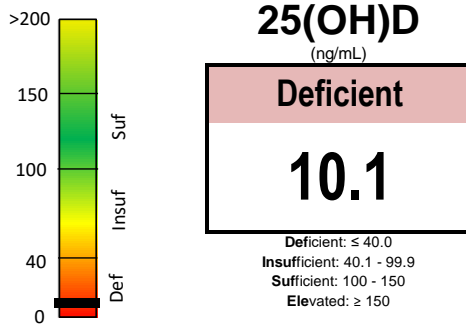


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Dose at time of draw:

Not Provided

Increase dose by:

1000 IU/day



New Recommended Dose Range

Low End Sufficiency (~100 ng/mL)	High End Sufficiency (~130 ng/mL)
1000 IU/day	1300 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

Your patient is found to be deficient. Deficiency greatly increases risk of developing other serious diseases. Supplement with D3 per recommendations and retest in 8-10 weeks or 4 months for obese patients.

▶ Vitamin D levels below 30ng/mL in patients with GI disorders or kidney disease are often associated with PLE/PLN. Please evaluate patient accordingly.

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

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

Supplementation Guide

Total Dose Recommended:		1000 IU/day	↔	1300 IU/day
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"/> 10 drops/day	<input type="checkbox"/> 13 drops/day
RxD3 Forte <i>Rx Vitamins</i>	500 IU/ drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/> 2 drops/day	<input type="checkbox"/> 3 drops/day

Retest NO SOONER THAN:

May 21, 2022

B12 (Cobalamin) Report

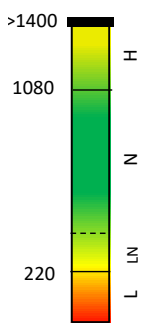


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Cobalamin (pg/mL)

High
1901.2

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

B12 Dose at time of draw:

250 mcg/day

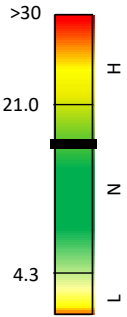
Increase B12 dose by:

-167 mcg/day



New Recommended B12 Dose

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



Folate (ng/mL)

Normal
17.3

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 •plementation	
		Low Dietary B12 EPI/IBD/LSA Distal SI Damage	Normal		
	Low	Small Intestinal Damage EPI/IBD/LSA	Proximal SI Damage Dysbiosis Antibiotics		Proximal SI Damage Excess B12 Supplementation Antibiotics
		Low	High	Cobalamin	

Comments

Patient has high B12 levels with normal Folate. Reduce supplementation as indicated and retest in 8-10 weeks.

Total B12 Dose Recommended:

83 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"/> 0.25 mL/day
RxB12 Forte <i>Rx Vitamins</i>	1000 mcg/mL 33 mcg/drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/> 3 drops/day	<input type="checkbox"/>

Magnesium Report

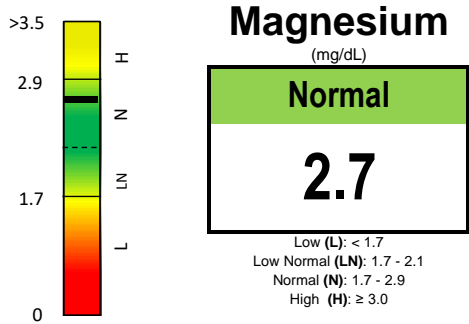


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Dose at time of draw:

Not Provided

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

323

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"/>

Retest NO SOONER THAN: