



PATIENT NAME: Ben Heuring
SPECIMEN ID: 176436
SPECIES: Canine
GENDER: Male Neutered
AGE: 2.0
WEIGHT: 75 lb
BREED: Golden Retriever

MRN: 1080293
DRAW DATE: 7-Mar-23
RECEIVED DATE: 9-Mar-23
REPORT DATE: 9-Mar-23
SAMPLE TYPE: Frozen Serum

VETERINARIAN:
FACILITY:

PH:
FAX:

Wellness Dashboard

<p>Vitamin D</p> <p>Sufficient</p> <p>103.0</p> <p>Sufficiency: 100-150 ng/mL</p>	<p>B12</p> <p>Low Normal</p> <p>271.1</p> <p>Normal: 220-1080 pg/mL</p>	<p>Magnesium</p> <p></p> <p>Normal: 1.7-2.9 mg/dL</p>	<p>tCa</p> <p></p> <p>Normal: 8.5 - 12.0 mg/dL</p>
<p>PTH¹⁻⁸⁴</p> <p></p> <p>Normal: 4 - 38 pg/mL</p>	<p>Folate</p> <p></p> <p>Normal: 4.3 - 21.0 ng/mL</p>		

<p>Inflammation (CRP)</p> <p>Optimal</p> <p>0.6</p> <p>Optimal: ≤ 2.0 Normal: ≤ 3.9 Mild Inflammation: 4 - 9.9 Moderate Inflammation: 10 - 39.9 High Inflammation: ≥ 40 (mg/L)</p>	<p>Previous</p> <p>4.4</p>	<p>Chemistries</p> <p>Albumin Normal</p>
<p>● CAR: 0.2</p>		
<p>Patient's inflammatory state is at an optimal level.</p>		<p>Patient CRP/Albumin Ratio (CAR) is within normal limits.</p>

3.5

Additional Tests

<p>Cancer Risk</p> <p>Very Low</p> <p>2.1</p> <p>Very Low Risk: ≤ 2.1 Low Risk: 2.2 - 5.2 Elevated Risk: 5.3 - 8.9 Highly Elevated Risk: ≥ 9.0</p>	<p>Previous</p> <p>7.4</p>	<p>Osteoarthritis (HA)</p> <p></p> <p>Normal: ≤20 Positive: >20 (ng/mL)</p>	<p>Previous</p> <p></p>
<p>Patient's CRA score is low with an unlikely chance of occult cancer.</p>			

5.6

1100

need consult? email consult@vdiilab.com

Differential List



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

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The following differential list is modified based on:

- Outside Ref Interval Within Ref Interval Not Performed Impacts List

Specialty

- Cancer Risk
- CRP
- HPT
- HA
- B12
- Folate
- PTH 1-84

Chemistries

- ALB
- ALT
- ALP
- BUN
- Creatinine
- Glucose
- Total Protein
- Globulin
- AG Ratio
- Calcium
- BUN/Creat Ratio
- Total Bili

Other Modifiers

- Age
- Breed
- Medication

CAR Ratio
0.2

The list of possible sources are common inflammatory diseases that correspond to the level of inflammation in this patient. Potential actions below may aid in further differential diagnosis. **BASED UPON CLINICAL PRESENTATION, SOME SOURCES CAN BE IMMEDIATELY EXCLUDED.**

Possible Source

(in decreasing probability)

Normal

Potential Action based on clinical relevance

Actions are organized by least invasive/expensive first



Everything is within reference intervals.
Routine measurement of inflammation is the most sensitive method to rule-out occult disease. Recommend annual rechecks during wellness visits.

Potential Action

code 1121

- 1) Recheck intervals for high risk breeds and dogs over the age of 5 is every 6 months. For best outcomes, every 4 months.
- 2) Supplement Vitamin B12 level according to the recommendations on the Vitamin B12 report.

Comments and recommendations are made in the absence of clinical background on the patient. The list of inflammatory diseases and diagnostic procedures are not exhaustive. For more detailed discussion regarding results, comments, or recommendations, please contact VDI at 805-577-6742.

Vitamin D Report

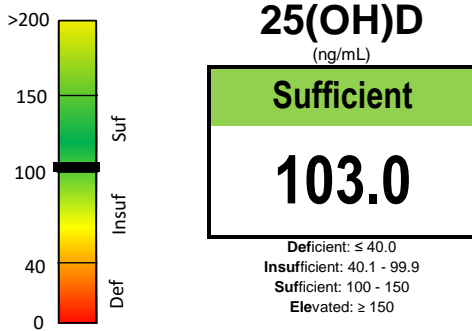


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Dose at time of draw:

Not Provided

Change dose by

0 IU/day



New Recommended Dose Range

Low End Sufficiency (~100 ng/mL)		High End Sufficiency (~130 ng/mL)
Not Required	↔	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
172691	3/22/2022	64.7	

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

Your patient is found to be sufficient. Current supplementation was not provided, so continue on the same diet and supplementation (if any) 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 | 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: **Not Required** ↔ **1300 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"/> 13 drops/day
RxD3 Forte <i>Rx Vitamins</i>	500 IU/ drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/>	<input type="checkbox"/> 3 drops/day

B12 (Cobalamin) Report

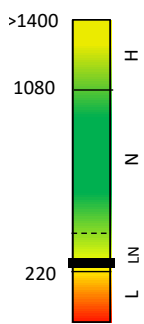


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Cobalamin

(pg/mL)

Low Normal

271.1

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

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

B12 Dose at time of draw:

Not Provided

Increase B12 dose by:

469 mcg/day



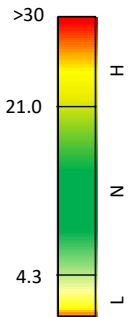
New Recommended B12 Dose

Fasted Sample?

unknown

469 mcg/day

B12 dosing recommendations are for daily supplementation. Continue indefinitely unless changes in health or diet require modification.



Folate

(ng/mL)

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
172691	3/22/2022	374.3		0

Folate vs Cobalamin Plot

Folate	High	SIBO Excess Dietary Folate	Excess Supplementation
	Normal	Low Dietary B12 CP / EPI / IBD / LSA Distal SI Damage	Excess Supplementation Cholangitis
	Low	Small Intestinal Damage CP / EPI / IBD / LSA	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 levels. Recommend supplementing as indicated to raise B12 levels higher in the normal range. Retest in 8-10 weeks if supplementation is prescribed.

Total B12 Dose Recommended:

469 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 Applied to food	<input type="checkbox"/> use mL dose	<input type="checkbox"/> 2 mL/day
RxB12 Forte <i>Rx Vitamins</i>	1000 mcg/mL 33 mcg/drop	Liquid Drops Applied to food	<input type="checkbox"/> use mL dose	<input type="checkbox"/> 0.5 mL/day

*Choose only one product for supplementation

Retest NO SOONER THAN:

May 18, 2023