

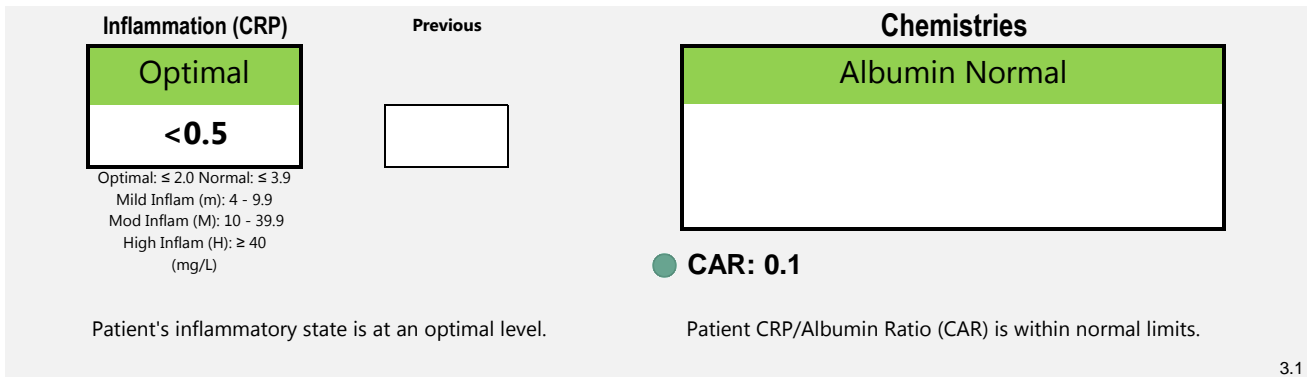
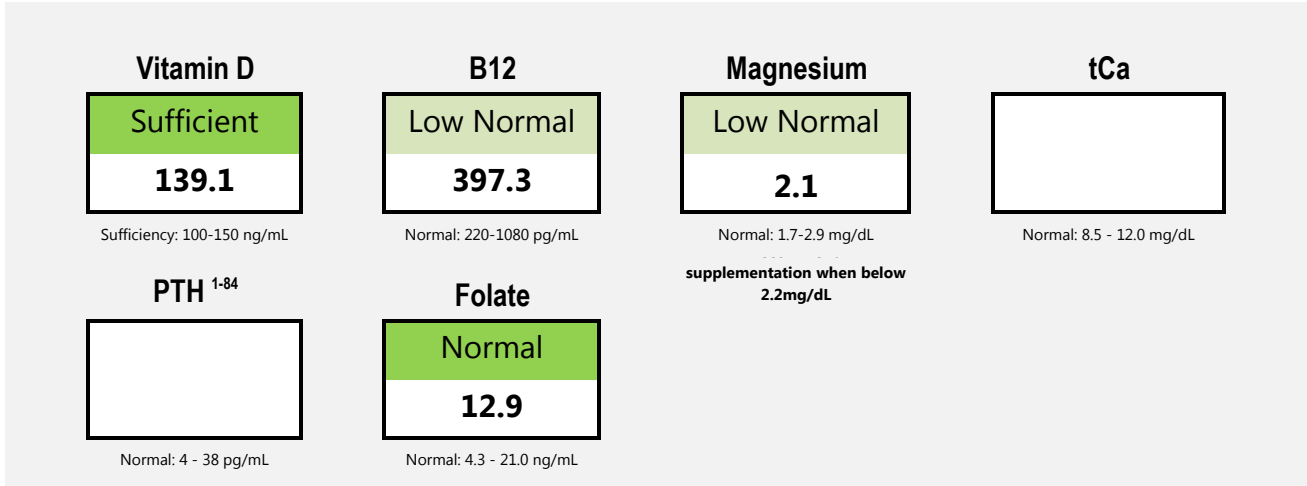


PATIENT NAME: Shazam Brown
SPECIMEN ID: 468879
SPECIES: Canine
GENDER: Female Spayed
AGE: 8.6
WEIGHT: 48.7 lb
BREED: Border Collie

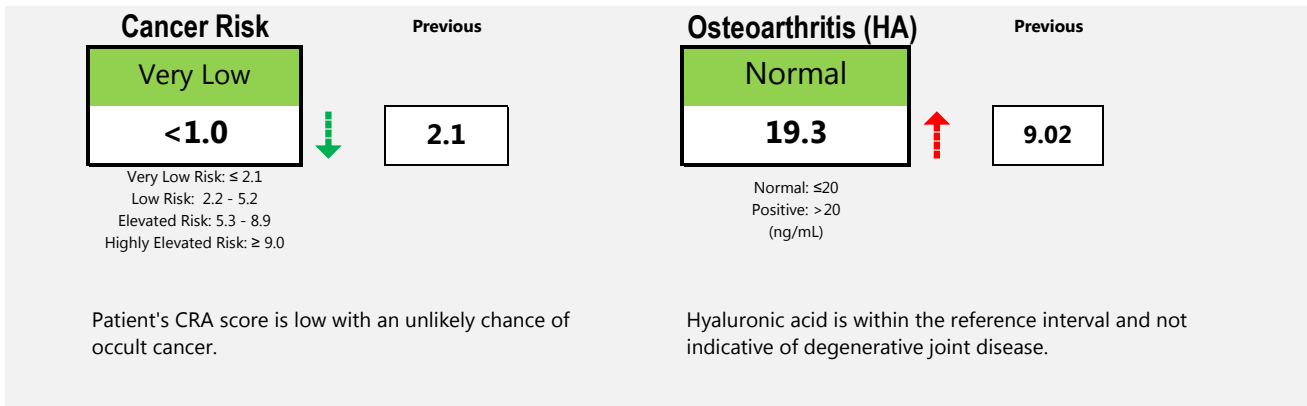
MRN: 1074346
DRAW DATE: 31-Oct-22
RECEIVED DATE: 7-Nov-22
REPORT DATE: 11-Nov-22
SAMPLE TYPE: Dried Serum - 2

VETERINARIAN:
FACILITY:
PH:
FAX:

Wellness Dashboard



Additional Tests



2.1

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
0.1

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.



Hyaluronic Acid Report

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Hyaluronic Acid (ng/mL)

Normal
19.3

Normal: ≤20
Positive: >20

Change from Previous

Significant Change

Patient History

ID	Date	Result ng/mL
439344	10/25/2021	53.1
453842	5/9/2022	9.0

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

Hyaluronic acid is within the reference interval and not indicative of degenerative joint disease.

*In cases of Severe DJD, chondrocyte death will lead to low levels of sHA since the joint is no longer producing HA.

TRENDING - sHA values have increased significantly from prior. In a treated patient (PSGAG, oral HA), this may represent an increase in the production of synovial fluid. In an untreated patient, it may represent an advancement of disease. Evaluate patient.

Phases of Degenerative Joint Disease			
Pre-/Early	Mild	Moderate	Severe
HA: Serum HA (sHA) below the positive cutoff. HA is being produced and maintained inside the joints. CRP: Typically absent, except in IMPA	HA: sHA above positive cutoff. HA is being produced but early degeneration allows some HA to leak into peripheral blood. CRP: Typically absent, except in IMPA.	HA: Moderate to high levels of sHA increasing with disease severity. HA is being produced but significant degeneration causes HA to leak into peripheral blood. Joint cushioning & lubrication is negatively affected. CRP: Mild inflammation may be present in moderate OA, IVDD, due to mechanical damage inside the joint. IMPA presents with elevated CRP.	HA: High to declining sHA levels. In severe DJD, chondrocyte cell death limits the production of HA. HA that is produced is leaked into the peripheral blood. Joint cushioning & lubrication is severely affected. CRP: Moderate to high inflammation may be present in OA, IVDD. Elevated CRP in IMPA.
No clinical signs present, but dog may be predisposed or at high risk of DJD.	Dog may begin showing some stiffness or rigidity. Doesn't interfere with day-to-day activity, but gait may change during exercise.	Dog may be showing noticeable pain, stiffness, lethargy with dog being uncomfortable, crying, or becoming increasingly reluctant to walk around.	Dog is typically reluctant to walk, go to the bathroom, or perform daily activities due to increased pain that has become unbearable.

Supplementation Guide

Dosing Guidelines - Twice Per Day				
PRODUCT NAME	Active Ingredient	PRODUCT STRENGTH	# of Pumps	mL/Day
Trixsyn® Canine Hyaluronan	Sodium Hyaluronate	13mg/pump	2 pumps, twice daily	N/A
Trixsyn® Canine Performance	Sodium Hyaluronate Astaxanthin	13mg/pump 1mg/pump	2 pumps, twice daily	2 pumps, twice daily
Other				

Vitamin D Report

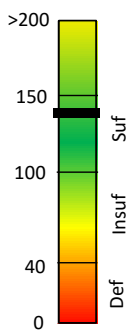


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25(OH)D (ng/mL)

Sufficient
139.1

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	Not Required
<small>For most patients without underlying conditions, or taking corticosteroids</small>	<small>For patients that warrant a higher VitD level and/or those on corticosteroids.</small>

Patient History

ID	Date	Result ng/mL	Known Dose iu/day
439344	10/25/2021	93.8	0
453842	5/9/2022	133.2	500

Interpretive Comments - need consult? email consult@vdlab.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	↔	Not Required
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"/>
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

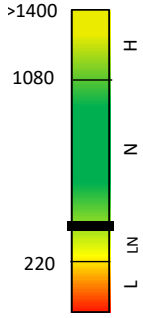


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Cobalamin (pg/mL)

Low Normal
397.3

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

B12 Dose at time of draw:

0 mcg/day

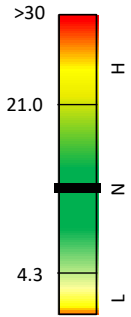
Increase B12 dose by:

257 mcg/day



New Recommended B12 Dose

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



Folate (ng/mL)

Normal
12.9

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
439344	10/25/2021	276.0	6.302	0
453842	5/9/2022	612.4	3.749	0

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 levels. Supplement as indicated and retest in 8-10 weeks.

Total B12 Dose Recommended:

257 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"/> 1 mL/day
RxB12 Forte <i>Rx Vitamins</i>	1000 mcg/mL 33 mcg/drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/> 8 drops/day	<input type="checkbox"/> 0.25 mL/day

Retest NO SOONER THAN: January 16, 2023

Magnesium Report

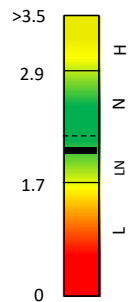


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Magnesium

(mg/dL)
Low Normal
2.1

Low (L): < 1.7
Low Normal (LN): 1.7 - 2.1
Normal (N): 1.7 - 2.9
High (H): ≥ 3.0

Dose at time of draw:

0 mg/day

Increase Dose By:

17 mg/day



New Recommended Dose

MagRatio	Not Available
17 mg/day	
Magnesium dosing recommendations are for daily supplementation. Continue indefinitely unless changes in health or diet require modification.	

Patient History

ID	Date	Result mg/dL	Known Dose mg/day
439344	10/25/2021	1.1	0
453842	5/9/2022	1.8	0

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

211

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

Supplementation Guide

Total Dose Recommended:		17 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"/> 1 pumps/day
Other				<input type="checkbox"/>

Additional Reviewer Comments - need consult? email consult@

Retest NO SOONER THAN: February 10, 2023