

Canine Wellness Report



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

PATIENT NAME: Astro Purvins
SPECIMEN ID: 470698
SPECIES: Canine
GENDER: Male Neutered
AGE: 3.8
WEIGHT: 56 lb
BREED: Australian Shepherd

MRN: 1091995
DRAW DATE: 31-Oct-22
RECEIVED DATE: 3-Nov-22
REPORT DATE: 4-Nov-22
SAMPLE TYPE: Dried Serum - 4

VETERINARIAN:
FACILITY:
PH:
FAX:

Wellness Dashboard

<p>Vitamin D</p> <p>Sufficient</p> <p>111.9</p> <p>Sufficiency: 100-150 ng/mL</p>	<p>B12</p> <p>Low Normal</p> <p>232.6</p> <p>Normal: 220-1080 pg/mL</p>	<p>Magnesium</p> <p>Low Normal</p> <p>2.0</p> <p>Normal: 1.7-2.9 mg/dL</p>	<p>tCa</p> <p>Normal</p> <p>9.5</p> <p>Normal: 8.5 - 12.0 mg/dL</p>
<p>PTH¹⁻⁸⁴</p> <p>Normal: 4 - 38 pg/mL</p>	<p>Folate</p> <p>Normal</p> <p>19.1</p> <p>Normal: 4.3 - 21.0 ng/mL</p>	<p>Recommend supplementation when below 2.2mg/dL</p>	

<p>Inflammation (CRP)</p> <p>Optimal</p> <p>1.6</p> <p>Optimal: ≤ 2.0 Normal: ≤ 3.9 Mild Inflammation (m): 4 - 9.9 Moderate Inflammation (M): 10 - 39.9 High Inflammation (H): ≥ 40 (mg/L)</p> <p>Patient's inflammatory state is at an optimal level.</p>	<p>Previous</p>	<p>Chemistries</p> <p>All Normal</p> <p>CAR: 0.4</p> <p>Patient CRP/Albumin Ratio (CAR) is within normal limits.</p>
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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>Patient's CRA score is low with an unlikely chance of occult cancer.</p>	<p>Previous</p>	<p>Osteoarthritis (HA)</p> <p>Positive</p> <p>25.7</p> <p>Normal: ≤ 20 Positive: > 20 (ng/mL)</p> <p>Hyaluronic acid is above the reference interval and is indicative of degenerative joint disease.</p>	<p>Previous</p>
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4.2 1110 need consult? email consult@vdiilab.com



Differential List

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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**
0.4

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)

Potential Action based on clinical relevance

Actions are organized by least invasive/expensive first

Degenerative Joint Disease



imaging, synovial fluid analysis, sfLDH

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.

Canine Chem 12 Report



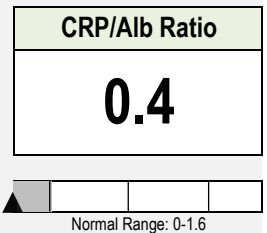
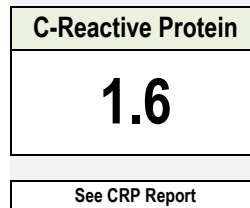
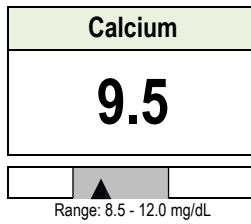
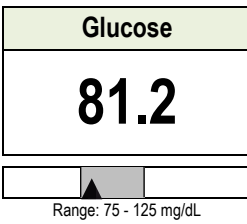
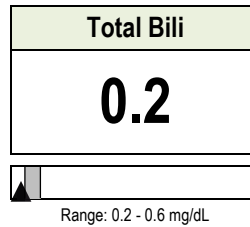
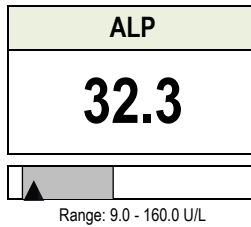
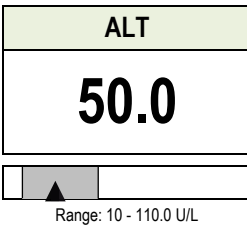
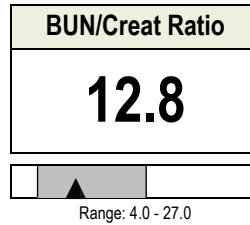
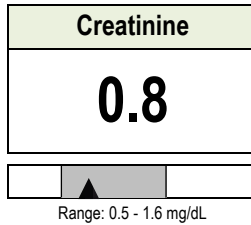
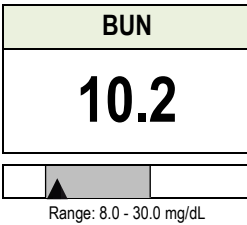
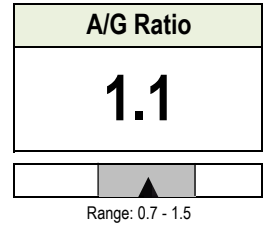
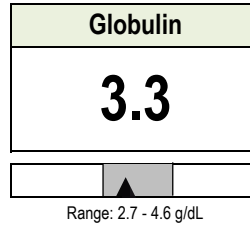
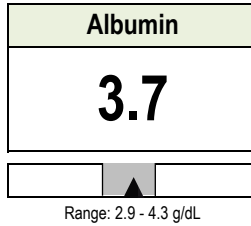
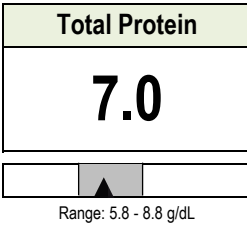
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Chemistries



Hyaluronic Acid Report



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Hyaluronic Acid (ng/mL)

Positive

25.7

Normal: ≤20
Positive: >20

Change from Previous

Patient History

ID	Date	Result ng/mL

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

Hyaluronic acid is above the reference interval and is indicative of degenerative joint disease. HA may be elevated in wounds, ACL/CCL injury, severe liver disease, and in patients being treated with PSGAG (ie, Adequan). Supplementing with oral HA has been shown to improve joint function. Follow recommendations below.

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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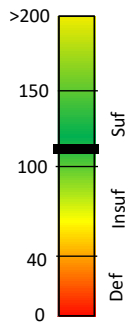
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25(OH)D
(ng/mL)

Sufficient
111.9

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

600 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 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



600 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"/>	<input type="checkbox"/> 6 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

B12 (Cobalamin) Report

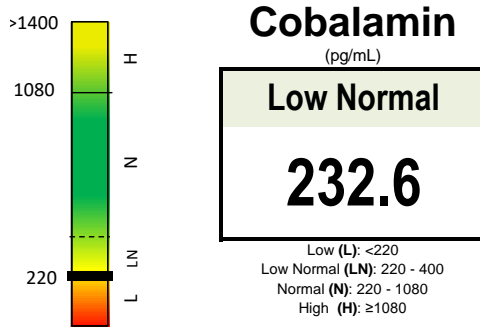


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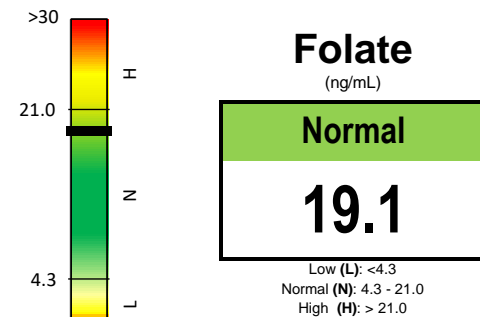
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In unfasted patients, actual B12 values may be lower, which may impact dose recommendation.



B12 Dose at time of draw:

0 mcg/day

Increase B12 dose by:

367 mcg/day



New Recommended B12 Dose

Fasted Sample?	unknown
367 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 normal B12 levels. Supplement as indicated and retest in 8-10 weeks.

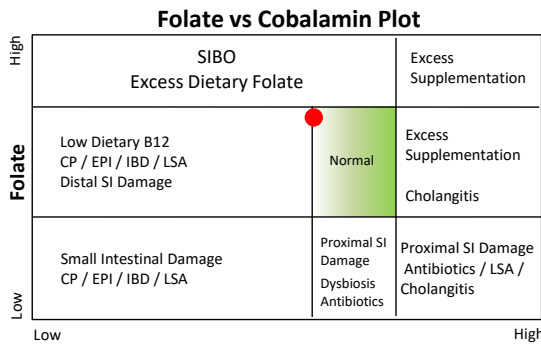


chart assumes unsupplemented patient

Total B12 Dose Recommended:

367 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"/> 1.5 mL/day
RxB12 Forte <i>Rx Vitamins</i>	1000 mcg/mL 33 mcg/drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/> 12 drops/day	<input type="checkbox"/> 0.25 mL/day

Retest NO SOONER THAN: January 12, 2023

Magnesium Report



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VETERINARIAN:

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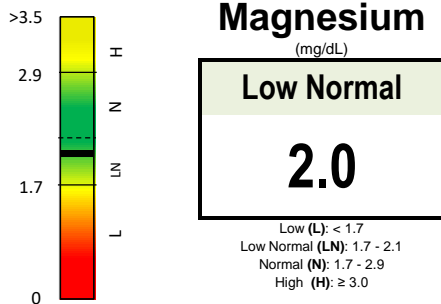
SAMPLE TYPE: Dried Serum - 4

PH:

WEIGHT: 56 lb

FAX:

BREED: Australian Shepherd



New Recommended Dose

MagRatio	Not Available
20 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

214

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

Supplementation Guide

Total Dose Recommended:		20 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/day
Other				<input type="checkbox"/>

Additional Reviewer Comments - need consult? email consult@

Retest NO SOONER THAN: February 6, 2023