

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: JC Hough
SPECIMEN ID: 175700
SPECIES: Canine
GENDER: Female Spayed
AGE: 8.0
WEIGHT: 2.7 lb
BREED: Maltese

MRN: 1100866
DRAW DATE: 27-Jan-23
RECEIVED DATE: 31-Jan-23
REPORT DATE: 3-Feb-23
SAMPLE TYPE: Frozen Serum

VETERINARIAN:
FACILITY:
PH:
FAX:

Wellness Dashboard

<p>Vitamin D</p> <p>Insufficient</p> <p>98.9</p> <p>Sufficiency: 100-150 ng/mL</p>	<p>B12</p> <p>Normal</p> <p>837.4</p> <p>Normal: 220-1080 pg/mL</p>	<p>Magnesium</p> <p>Normal</p> <p>2.5</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>16.6</p> <p>Normal: 4.3 - 21.0 ng/mL</p>		

<p>Inflammation (CRP)</p> <p>Normal</p> <p>2.8</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>Patient's inflammatory state is within the reference interval.</p>	<p>Previous</p> <p></p>	<p>Chemistries</p> <p>All Normal</p> <p>CAR: 0.9</p> <p>Patient CRP/Albumin Ratio (CAR) is within normal limits.</p>
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Additional Tests

<p>Cancer Risk</p> <p>Elevated</p> <p>5.8</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>CRA score is slightly elevated and may be due to a transient condition however an occult cancerous process is heightened.</p>	<p>Previous</p> <p></p>	<p>Osteoarthritis (HA)</p> <p>Normal</p> <p>16.1</p> <p>Normal: ≤ 20 Positive: > 20 (ng/mL)</p> <p>Hyaluronic acid is within the reference interval and not indicative of degenerative joint disease.</p>	<p>Previous</p> <p></p>
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12.7

3200

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
0.9

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

Vector-borne



serological panel

Potential Action

code 3212

- 1) Conduct a careful physical examination with the above list in mind. Investigate any abnormal findings.
- 2) Supplement Vitamin D levels according to the recommendations on the Vitamin D report.
- 3) Repeat profile testing within 2-3 months.

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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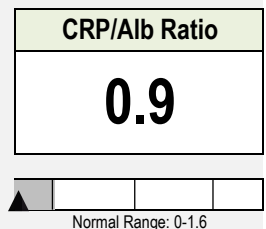
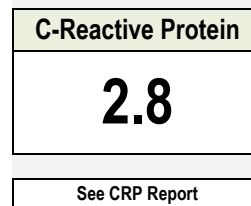
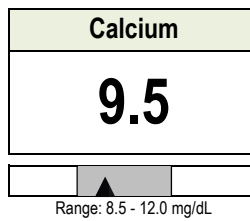
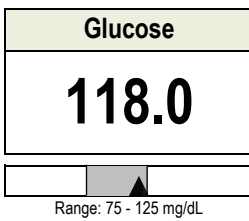
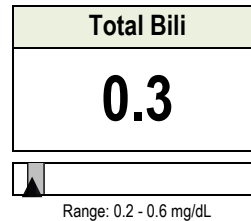
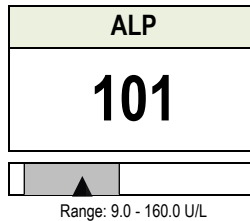
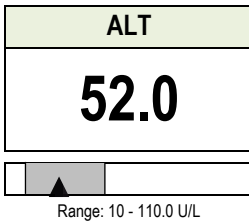
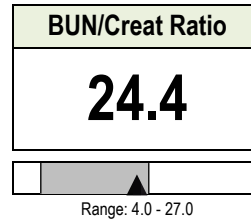
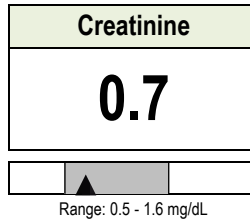
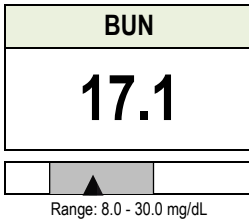
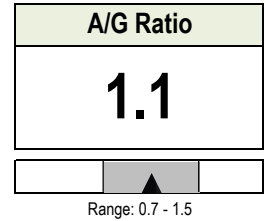
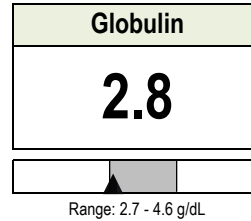
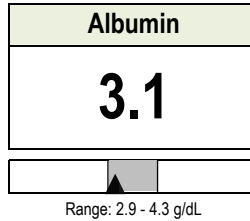
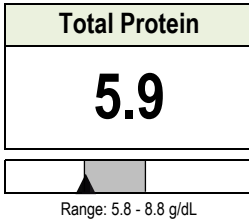
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Chemistries





Hyaluronic Acid Report

PATIENT NAME: JC Hough
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SPECIES: Canine
GENDER: Female Spayed
AGE: 8.0
WEIGHT: 2.7 lb
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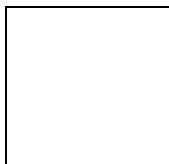
PH:
FAX:

Hyaluronic Acid (ng/mL)

Normal
16.1

Normal: ≤20
Positive: >20

Change from Previous



Patient History

ID	Date	Result ng/mL

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.

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	not required	not required
Trixsyn® Canine Performance	Sodium Hyaluronate Astaxanthin	13mg/pump 1mg/pump	not required	not required
Other	_____			

Vitamin D Report



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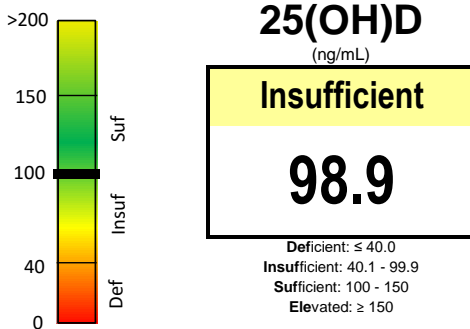
PH:

WEIGHT: 2.7 lb

SAMPLE TYPE: Frozen Serum

FAX:

BREED: Maltese



Dose at time of draw:

0 IU/day

Increase dose by:

100 IU/day



New Recommended Dose Range

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

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

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

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:		100 IU/day	↔	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"/> 1 drop/day	<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"/>

*Choose only one product for supplementation

Retest NO SOONER THAN: April 14, 2023

B12 (Cobalamin) Report

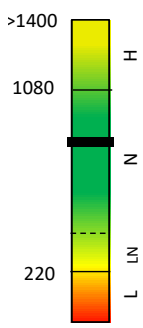


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Cobalamin

(pg/mL)
Normal
837.4

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:

0 mcg/day

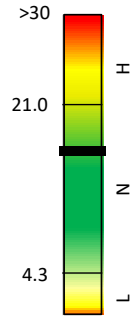
Increase B12 dose by:

0 mcg/day



New Recommended B12 Dose

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



Folate

(ng/mL)
Normal
16.6

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	Normal	Excess Supplementation
	Low	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

Cobalamin
chart assumes unsupplemented patient

need consult? email consult@vdiilab.com

Comments

Patient has normal B12 and Folate levels. Maintain current diet and supplementation and retest in 1 year unless health or diet changes occur.

Total B12 Dose Recommended:

0 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"/>	<input type="checkbox"/>
RxB12 Forte <i>Rx Vitamins</i>	1000 mcg/mL 33 mcg/drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/>	<input type="checkbox"/>

*Choose only one product for supplementation

Magnesium Report

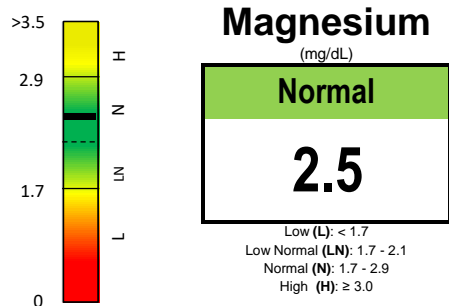


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Dose at time of draw: 0 mg/day

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 - need consult? email consult@vdlab.com 314

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"/>

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

Retest NO SOONER THAN: