

#### **Canine Wellness Report**

BREED:



**PATIENT NAME: Ginger Millard** 

SPECIMEN ID: 477765 Canine SPECIES: GENDER: Female AGE: 14.6 WEIGHT: 39.8 lb

MRN: 1066037

DRAW DATE: 15-Feb-23 RECEIVED DATE: 22-Feb-23 REPORT DATE: 25-Feb-23

SAMPLE TYPE: Dried Serum - 2

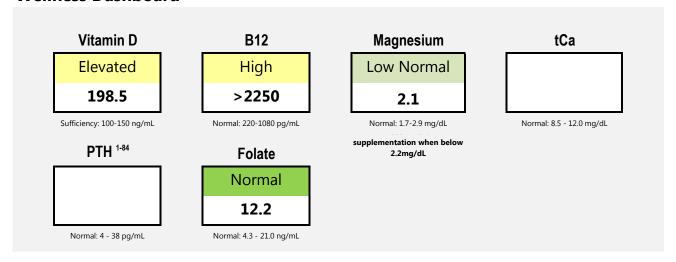
**VETERINARIAN:** 

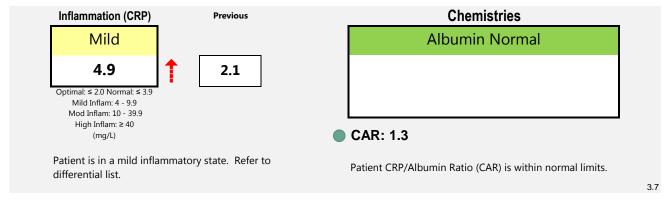
FACILITY:

PH: FAX:

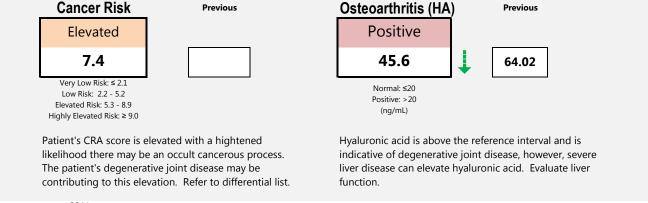
#### **Wellness Dashboard**

Red Heeler





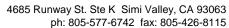
#### **Additional Tests**



3311 6.1

Lab Director: Randy Ringold, MT(ASCP), MBA

need consult? email consult@vdilab.com



#### **Differential List**



PATIENT NAME: Ginger Millard MRN: 1066037 VETERINARIAN:

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The following differential list is modified based on
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Outside Ref Interval	<b>W</b> i	thin Ref Interval	Not Performed	Impacts List
<u>Specialty</u>	Chemist	<u>ries</u>	<u>Othe</u>	r Modifiers
Cancer Risk	ALB	Total Protein		► Age
CRP	ALT	<b>◯</b> Globulin		Breed
○ HPT	○ ALP			Medication
HA	O BUN	○ Calcium		CAR Ratio
<b>B</b> 12	Creatinine	<ul><li>BUN/Creat Ratio</li></ul>		1.3
Folate	<b>◯</b> Glucose	Total Bili		
O PTH 1-84				

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)

Post-Surgical Wound Healing

Degenerative Joint Disease

Liver disease (non cancer)

Pancreatitis

Dental disease

Cancer IBD

**Fungal** 

review patient history

imaging, synovial fluid analysis, sfLDH

liver function tests, imaging

cPLI, imaging

 $\rightarrow$ 

examine patient

TK1 Cancer Panel (VDI), imaging, biopsy

Actions are organized by least invasive/expensive first

rule-in through exclusion (CRP/HPT α severity), imaging, biopsy

Potential Action based on clinical relevance

serological panel, culture, imaging

Potential Action

code 3322

Patient should be carefully evaluated for disease. Recommend routine chemistries and imaging if clinical findings warrant.
 Since cancer risk is elevated (CRA score), cancer and other inflammatory conditions listed above should be evaluated. Please note this is not an exhaustive list. If found, disease should be treated and Canine Cancer Panel should be performed to confirm resolution.

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**



PATIENT NAME: Ginger Millard MRN: 1066037 VETERINARIAN: SPECIMEN ID: 477765 DRAW DATE: 15-Feb-23 FACILITY:

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 39.8 lb
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 BREED:
 Red Heeler

# Hyaluronic Acid (ng/mL)

# Positive 45.6

Normal: ≤20 Positive: >20

#### Change from Previous



#### **Patient History**

ID	Date	<b>Result</b> n g/mL
432708	3/8/2021	54.5
463290	4/27/2022	64.0

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

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

TRENDING - sHA has decreased significantly from prior. It generally would indicate a decrease in synovial fluid production and/or leakage from the capsule. 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.	HA: sHA above positive cutoff. HA is being produced but early degeneration allows some HA to leak into peripheral blood.	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.	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: Typically absent, except in IMPA	CRP: Typically absent, except in IMPA.	CRP: Mild inflammation may be present in moderate OA,IVDD, due to mechanical damage inside the joint. IMPA presents with elevated CRP.	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 rigidness. 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	1 pump, twice per day	N/A
Trixsyn® Canine Performance	Sodium Hyaluronate Astaxanthin	13mg/pump 1mg/pump	1 pump, twice per day	1 pump, twice per day
Other				

For patients that warrant a higher VitD level

and/or those on corticosteroids.

rev. Aug 14 2022

#### Vitamin D Report

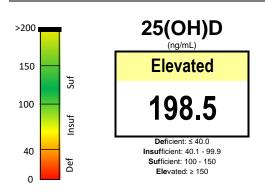


PATIENT NAME: Ginger Millard

**VETERINARIAN:** SPECIMEN ID: 477765 MRN: 1066037 FACILITY:

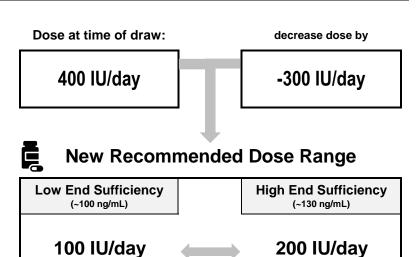
SPECIES: Canine DRAW DATE: 15-Feb-23 GENDER: Female RECEIVED DATE: 22-Feb-23 REPORT DATE: 25-Feb-23 AGE: 14.6 39.8 lb WEIGHT: SAMPLE TYPE: Dried Serum - 2

BREED: Red Heeler



#### **Patient History**

ID	Date	<i>Result</i> ng/mL	Known Dose iu/day
463290	4/27/2022	85.6	0
175344	11/15/2022	61.0	0



PH:

FAX:

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

Your patient is found to have elevated vitamin D levels. If patient is above 200 ng/mL stop or reduce supplementation and retest in 8-10 weeks or 4 months for obese patients.

For most patients without underlying

conditions, or taking corticosteroids

#### 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 Dos	e Recommended:	100 IU/day	200 IU/d	ay
*Choose only one propuct NAME	oduct for supplementation PRODUCT STRENGTH	PRODUCT FORMAT	Low End Dose	High End Dose
RxD3 Rx Vitamins	100 IU/ drop	Liquid Drops Applied to food	☐ 1 drop/day	☐ 2 drops/day
RxD3 Forte Rx Vitamins	500 IU/ drop	<b>Liquid Drops</b> Applied to food		

**Retest NO SOONER THAN:** May 6, 2023

#### **B12 (Cobalamin) Report**



**PATIENT NAME: Ginger Millard** MRN: 1066037 **VETERINARIAN:** SPECIMEN ID: 477765 DRAW DATE: 15-Feb-23

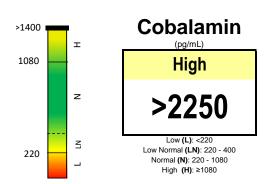
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WEIGHT: 39.8 lb BREED: Red Heeler

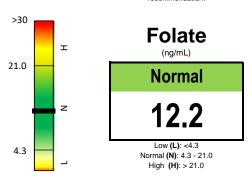
FACILITY:

PH:

FAX:



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



### **Folate vs Cobalamin Plot**

High	SIBO Excess Dietary Folate	Excess Supplementation	
Folate	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

#### B12 Dose at time of draw:

Increase B12 dose by:

0 mcg/day

0 mcg/day



## **New Recommended B12 Dose**

Fasted Sample?	unknown		
0 mcg/day			
	r daily supplementation. Continue indefinitely unless alth or diet require modification.		

#### **Patient History**

ID	Date	<b>B12</b> pg/mL	rolate ng/mL	Known B12 Dose mcg/day
463290	4/27/2022	361.4	4.025	0
175344	11/15/2022	271.7	7.36	0

need consult? email consult@vdilab.com

#### Comments

Patient has elevated B12 levels and normal folate. High levels of B12 can sometimes be associated with underlying GI disease - patient should be evaluated.

## **Total B12 Dose Recommended:**

## 0 mcg/day

PRODUCT NAME	PRODUCT STRENGTH	PRODUCT FORMAT	Drops Dose	mL Dose
RxB12 Rx Vitamins	250 mcg/mL 6.5 mcg/drop	Liquid Drops Applied to food		
RxB12 Forte Rx Vitamins	<b>1000 mcg/mL</b> 33 mcg/drop	<b>Liquid Drops</b> Applied to food		

<sup>\*</sup>Choose only one product for supplementation

#### **Magnesium Report**

BREED:



PATIENT NAME: Ginger Millard MRN: 1066037 VETERINARIAN:

SPECIMEN ID: 477765 DRAW DATE: 15-Feb-23 FACILITY:

SPECIMEN CORRESPONDED FOR THE PARTY 22 Feb 23

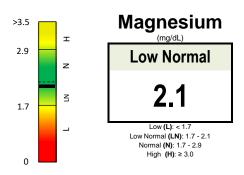
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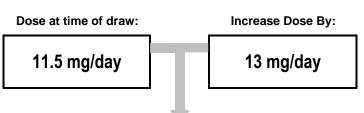
PH: FAX:



Red Heeler

#### **Patient History**

ID	Date	<b>Result</b> <b>m</b> g/dL	Known Dose mg/day
463290	4/27/2022	1.8	0
175344	11/15/2022	1.9	0



## New Recommended Dose

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

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

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Patient has Low Normal Magnesium levels. Increase supplementation as indicated and retest in 90 days.

#### **Supplementation Guide**

Total Dose Recommended: 24 mg/day				
PRODUCT NAME	PRODUCT STRENGTH	PUMP VOLUME	PRODUCT FORMAT	Dose
Magnesium Lotion for Pets Magnum Solace	50 mg/mL	<b>0.23 mL/pump</b> 11.5 mg/pump	Topical Lotion	☐ 2 pumps/day
Other				

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

Retest NO SOONER THAN: May 28, 2023