



**PATIENT NAME: Diogi Peters**

**VETERINARIAN: Dr. Stevens**

**SPECIMEN ID #: 6351614**

**DRAW DATE: 11-Apr-15**

**FACILITY: VDI Vet Clinic**

**SPECIES: Canine**

**RECEIVED DATE: 16-Apr-15**

**4685 Runway St**

**GENDER: Female Spayed**

**SAMPLE TYPE: Serum**

**Simi Valley, CA 93063**

**BREED: English Springer Spaniel**

**COMMENTS: none**

**PH: 805-577-6742**

**AGE: 8.0**

**FAX: 805-426-8115**

**WEIGHT: 63 lb**

**VitD canine**

**REPORT DATE: 23-Apr-2015**

TEST NAME	RESULT	UNITS	FLAG	REFERENCE INTERVAL
<b>VitD</b> 25 hydroxy-vitamin D	<b>56.7</b>	ng/mL	<b>Insuff</b>	Deficient (Def): ≤ 24.9 Insufficient (Insuff): 25.0 - 99.9 Sufficient: 100 - 120 Elevated (High): ≥ 150

Supplementation Guidelines	Historical Test Results		Current Supplementation	Based upon the recommended Total Dose, total daily supplementation is: <b>1 mL per day</b> of RxD3 for Pets  VDI recommends <b>RxD3</b> , a pure vitamin D3 supplement manufactured by Rx Vitamins. To order/ support, please call (800) 792-2222	
	Date	VitD (ng/mL)	Dose (IU/Day)		1000 IU/day
	14-Jan-15	46.5	2250		Required Additional Dose +2130 IU/day
	<b>Total Historical Dose</b>	<b>2250</b>	<b>TOTAL DOSE</b> <b>3130 IU/Day</b>		

If 25(OH)D levels are found to be inadequate, supplementation may be warranted. Supplementation will vary based upon initial 25(OH)D level and weight. Monitoring is recommended to prevent over-supplementation. If 25(OH)D is over 150 ng/mL, it is recommended that diet and/or supplementation be modified to prevent toxicity. Toxicity levels have not been accurately established, however, based upon human data, extremely high levels of 25(OH)D are required to induce toxicity.

Based upon the weight of the animal, the dosing guideline of vitamin D3 is recommended for routine supplementation. It takes about 8-10 weeks for equilibrium to occur and testing should be repeated to ensure the animal is within the proper range. Please advise the pet owner not to over-supplement. Ongoing supplementation is required to maintain vitamin D sufficiency and should not require modification unless diet changes or annual testing confirms a change is warranted. Serum calcium should be evaluated prior to supplementation.

Calcium	Result	Units	Reference Interval
total calcium	<b>Not Performed</b>	mg/dL	Low (L): <8.5 Normal: 8.5 - 12.0 High (H): ≥ 12.1

**General Comments**

**VitD** measures both forms of 25-hydroxyvitamin D, D2 and D3, for a total assessment of vitamin D stores. Vitamin D modulates cell growth, neuromuscular and immune function, and reduces inflammation. Many genes, modulated in part by vitamin D, encode proteins that regulate cell proliferation, differentiation, and apoptosis. Many cells have vitamin D receptors, and some convert 25(OH)D to 1,25(OH)2D, the active hormone.

**Sufficient**

No further action is required. Maintain current diet/supplementation. Retest annually as absorption decreases with increasing age. Retest if there is a diet change.

**Insufficient**

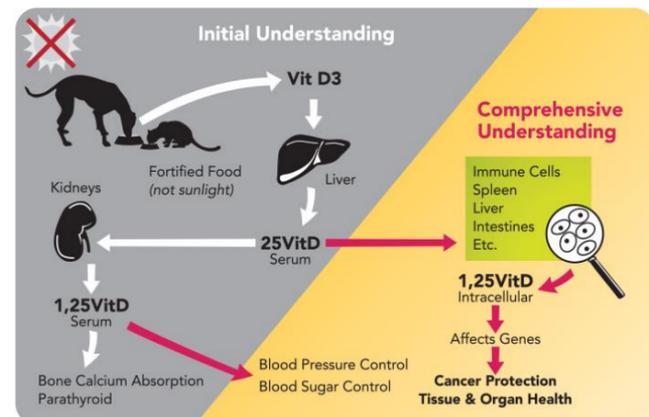
Values between 25-99 ng/mL are considered insufficient. Supplement with D3 per recommendations. Retest in 8-10 weeks. Resistance to supplementation may occur in patients with GI disorders. Patients with protein losing nephropathy may not achieve sufficiency due to low stores of D-binding protein. Chronic vitamin D insufficiency can cause hyperparathyroidism. Patients with abnormal calcium values should evaluate PTH (order PTH1-84 calcemia panel).

**Deficient**

Values below 25 ng/mL are considered deficient. Values this low can cause bone disease. Patients are at extreme risk of developing other serious diseases. Supplement with D3 per recommendations and retest in 8-10 weeks.

**High**

Values above 150 ng/mL are considered elevated. If patient is on supplementation reduce accordingly. If patient is below 200 ng/mL and with normal calcium, maintain on current diet. If patient is above 200 ng/mL, consider diet alternatives.



Tech: RR



VITD CANINE



VITD FELINE



REPORT DATE: April 16, 2015

VETERINARIAN: Dr. Stevens

PATIENT NAME: Diogi Peters

VDI Vet Clinic

SPECIMEN ID #: 6351614

4685 Runway St

Simi Valley, CA 93063

805-577-6742

To the parents of Diogi Peters:

Species Canine

Vitamin D: 56.7 ng/mL

Breed English Springer Spaniel

Age 8 yrs

Weight 63 lb



Supplementation: 1 mL per day of RxD3 for Pets from Rx Vitamins

Your pet has been found to be vitamin D insufficient and requires supplementation. Since diet is the primary source of vitamin D an oral supplement is being recommended. The amount provided should be followed carefully - too little and vitamin D sufficiency will not be achieved and too much can be toxic. DO NOT USE HUMAN SUPPLEMENTS. Human supplements are typically too strong for pets, particularly small ones. Supplementation is needed daily and should not be stopped. If other medication is being prescribed, try to supplement at a different feeding time. Should the pet's primary food change, retesting is recommended to determine if supplementation is still needed. Also as the pet grows older less vitamin D is absorbed from the food so annual testing is recommended. Please consult with your veterinarian on a disease prevention plan tailored for your pet.

Vitamin D is a vital nutrient for your pet, and low amounts have been linked to a variety of diseases including cancer. Having sufficient vitamin D helps to reduce chronic inflammation, boost immunity, and promote a healthy body. However, unlike in humans where vitamin D is made from sunlight, your pet's primary source of vitamin D is from their food. Many pets have insufficient levels of vitamin D which increases their risk to a wide variety of diseases.

For more information about Vitamin D please visit [www.DmakesaDifference.com](http://www.DmakesaDifference.com)

