From: Rotstein, David </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0A3B17EBFCF14A6CB8E94F322906BADD-

DROTSTEI>

To: Carey, Lauren; Ceric, Olgica; Glover, Mark; Jones, Jennifer L; Nemser, Sarah; Palmer, Lee

Anne; Peloquin, Sarah; Queen, Jackie L; Rotstein, David

Sent: 6/10/2019 2:53:18 PM

Subject: FW: Solid Gold Mighty Mini Beef: Lisa Freeman - EON-380716

Attachments: 2063119-report.pdf; Solid Gold Mighty Mini Beef: Lisa Freeman - EON-390030; 2063119-

attachments.zip

This is a Dr. Freeman report (follow-up)-not sure if this is one that you were working on.

David Rotstein, DVM, MPVM, Dipl. ACVP CVM Vet-LIRN Liaison CVM OSC/DC/CERT 7519 Standish Place 240-506-6763 (BB)





This e-mail message is intended for the exclusive use of the recipient(s) named above. It may contain information that is protected, privileged, or confidential, and it should not be disseminated, distributed, or copied to persons not authorized to receive such information. If you are not the intended recipient, any dissemination, distribution, or copying is strictly prohibited. If you think you received this e-mail message in error, please e-mail the sender immediately at david.rotstein@fda.hhs.gov.

From: PFR Event cpfreventcreation@fda.hhs.gov>

Sent: Sunday, February 24, 2019 6:57 PM

To: Cleary, Michael * <Michael.Cleary@fda.hhs.gov>; HQ Pet Food Report Notification

<HQPetFoodReportNotification@fda.hhs.gov>;
B6

Subject: Solid Gold Mighty Mini Beef: Lisa Freeman - EON-380716

A PFR Report has been received and PFR Event [EON-380716] has been created in the EON System.

A "PDF" report by name "2063119-report.pdf" is attached to this email notification for your reference. Please note that all documents received in the report are compressed into a zip file by name "2063119-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-380716

ICSR #: 2063119

EON Title: PFR Event created for Solid Gold Mighty Mini Beef Sweet Potato and Apple grain free dry; 2063119

AE Date	01/02/2019	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable

Breed	Chihuahua	
Age	9 Years	
District Involved	PFR-New England DO	

Product information

Individual Case Safety Report Number: 2063119

Product Group: Pet Food

Product Name: Solid Gold Mighty Mini Beef, Sweet Potato, and Apple grain free dry

Description: Has been regularly rechecked after B6 Progressive reduction in left ventricular contractile function noted on most recent echo. Eating BEG diet. Owner changed to Royal Canin Early Cardiac

diet and we will recheck in April

Submission Type: Initial

Report Type: Adverse Event (a symptom, reaction or disease associated with the product)

Outcome of reaction/event at the time of last observation: Stable

Number of Animals Treated With Product: 1 Number of Animals Reacted With Product: 1

Product Name	Lot Number or ID	Best By Date
Solid Gold Mighty Mini Beef, Sweet Potato, and Apple grain free dry		

Sender information

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

Owner information

B6

ΙCΛ

To view this PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-380716

To view the PFR Event Report, please click the link below:

 $\underline{https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none\&e=0\&issueType=12\&issueId=397725$

This email and attached document are being provided to you in your capacity as a Commissioned Official with the U.S. Department of Health and Human Services as authorized by law. You are being provided with this information pursuant to your signed Acceptance of Commission.

This email message is intended for the exclusive use of the recipient(s) named above. It may contain information

that is protected, privileged, or confidential. Any dissemination, distribution, or copying is strictly prohibited.

The information is provided as part of the Federal-State Integration initiative. As a Commissioned Official and state government official, you are reminded of your obligation to protect non-public information, including trade secret and confidential commercial information that you receive from the U.S. Food and Drug Administration from further disclosure. The information in the report is intended for situational awareness and should not be shared or acted upon independently. Any and all actions regarding this information should be coordinated through your local district FDA office.

Failure to adhere to the above provisions could result in removal from the approved distribution list. If you think you received this email in error, please send an email to FDAReportableFoods@fda.hhs.gov immediately.

Report Details - EON-3 ICSR: Type Of Submission: Report Version: Type Of Report: Reporting Type:	2063119 Initial								
Type Of Submission: Report Version: Type Of Report: Reporting Type:	Initial								***************************************
Report Version: Type Of Report: Reporting Type:	<u></u>								
Type Of Report: Reporting Type:	FPSR FDA PFTF V V1	Initial							
Reporting Type:	FPSR.FDA.PETF.V.V1								
	Adverse Event (a symptom,	reaction or disease a	ssociated with th	ne produc	ct)				
	Voluntary								
Report Submission Date:	2019-02-24 18:45:24 EST								
Reported Problem:	Problem Description:	Has been regularly reventricular contractile Owner changed to R	e function noted	on most i	ecent e	cho. E	ating		t.
	Date Problem Started:	01/02/2019							
	Concurrent Medical Problem:	Yes							
	Pre Existing Conditions:	В6							
	Outcome to Date:	Stable							
Product Information:	Product Name:	Solid Gold Mighty Mi	ni Beef, Sweet F	otato, ar	d Apple	grain	free d	lry	
	Product Type:		<u> </u>	,				-	
	Lot Number:								
	Package Type:	BAG		***************************************					
	Product Use Information:	Description:	1/4 cup kibble (d BID Owner swite (salmon, lentil, g	ched to V	Veight C	ontrol	versi	on of san	ne diet
	Manufacturer /Distributor Information:			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Juyu		
	Purchase Location Information:								
Animal Information:	Name:	В6							
	Type Of Species:	Dog							
	Type Of Breed:								
	Gender:								
	Reproductive Status:			***************************************					***************************************
		3.72 Kilogram							
		9 Years							
	Assessment of Prior Health:								
	Number of Animals Given the Product:	1							
	Number of Animals Reacted:	1							
	Owner Information:	Owner Information provided:	Yes						
		Contact:	Name:	В6	 				100 100 100 100 100
			Phone:	В6			_		UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU
			Email:		B6				000000000000000000000000000000000000000
		Address:							, , , , , , , , , , , , , , , , , , ,
			B 6						0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		6	United States						0 0 0
	Healthcare Professional	Practice Name:	Tufts Cummings	School	of Veter	inary I	Medici	ne	

			Phone:	(508) 887-4523	
			Email:	lisa.freeman@tufts.edu	
		Address:	200 Westboro North Grafton Massachusetts 01536 United States		
Sender Information:	Name:	Lisa Freeman			
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States			
	Contact:	Phone:	5088874523		
		Email:	lisa.freeman@	tufts.edu	
	Permission To Contact Sender:	Yes			
	Preferred Method Of Contact:				
Additional Documents:					
	Attachment:	T_26346.pdf			
	Description:	Taurine - will send re	est of records by	y email (too large)	
	Туре:	Laboratory Report			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, part			

From:	Related PFR Event <pre>cpfrsignificantactivitycreation@fda.hhs.gov></pre>
То:	Carey, Lauren; Cleary, Michael *; HQ Pet Food Report Notification;
Sent:	6/10/2019 2:48:46 PM
Subject:	Solid Gold Mighty Mini Beef: Lisa Freeman - EON-390030
Attachments:	2067990-report.pdf; 2067990-attachments.zip

A PFR Report has been received and Related PFR Event [EON-390030] has been created in the EON System.

A "PDF" report by name "2067990-report.pdf" is attached to this email notification for your reference. Please note that all documents received in the report are compressed into a zip file by name "2067990-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-390030

ICSR #: 2067990

EON Title: Related PFR Event created for Solid Gold Mighty Mini Beef Sweet Potato and Apple grain free dry;

2067990

AE Date	01/02/2019	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Better/Improved/Recovering
Breed	Chihuahua		
Age	9 Years		
District Involved	PFR-New England DO		

Product information Individual Case Safety Report Number: 2067990 Product Group: Pet Food Product Name: Solid Gold Mighty Mini Beef, Sweet Potato, and Apple grain free dry Description: Has been regularly rechecked after B6 Progressive reduction in left ventricular contractile function noted on most recent echo. Eating BEG diet. Owner changed to Royal Canin Early Cardiac diet and we will recheck in April April cardiology recheck - echo measurements improved overall - eating Royal Canin Cardiac diet, no additional medications prescribed B6 remains occluded. Patient has purposefully lost

weight.

Submission Type: Followup

Report Type: Adverse Event (a symptom, reaction or disease associated with the product) **Outcome of reaction/event at the time of last observation:** Better/Improved/Recovering

Number of Animals Treated With Product: 1 Number of Animals Reacted With Product: 1

Product Name	Lot Number or ID	Best By Date
Solid Gold Mighty Mini Beef, Sweet Potato, and Apple grain free dry		

This report is linked to:

Initial EON Event Key: EON-380716

Initial ICSR: 2063119

Sender information

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

Owner information

B6

USA

To view this Related PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-390030

To view the Related PFR Event Report, please click the link below:

 $\underline{https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none\&e=0\&issueType=10100\&issueId=407302\&parentIssueTypeId=12$

This email and attached document are being provided to you in your capacity as a Commissioned Official with the U.S. Department of Health and Human Services as authorized by law. You are being provided with this information pursuant to your signed Acceptance of Commission.

This email message is intended for the exclusive use of the recipient(s) named above. It may contain information that is protected, privileged, or confidential. Any dissemination, distribution, or copying is strictly prohibited.

The information is provided as part of the Federal-State Integration initiative. As a Commissioned Official and state government official, you are reminded of your obligation to protect non-public information, including trade secret and confidential commercial information that you receive from the U.S. Food and Drug Administration from further disclosure. The information in the report is intended for situational awareness and should not be

shared or acted upon independently. Any and all actions regarding this information should be coordinated through your local district FDA office.

Failure to adhere to the above provisions could result in removal from the approved distribution list. If you think you received this email in error, please send an email to FDAReportableFoods@fda.hhs.gov immediately.

{					
Report Details - EON-	390030				
ICSR:	2067990				
Type Of Submission:	Followup				
Report Version:	FPSR.FDA.PETF.V.V1				
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	associated with the product)		
Reporting Type:	Voluntary				
Report Submission Date:					
Initial Report Date:	02/24/2019				
Parent ICSR:	2063119				
Follow-up Report to FDA Request:	Yes				
Reported Problem:	Problem Description:	Has been regularly r	echecked after B6 Progressive reduction in left		
. (cpc. tou)	Date Problem Started: Concurrent Medical Problem:	ventricular contractiliowner changed to R April cardiology rech Canin Cardiac diet, r Patient has purpose 01/02/2019	e function noted on most recent echo. Eating BEG diet. oyal Canin Early Cardiac diet and we will recheck in April eck - echo measurements improved overall - eating Royal no additional medications prescribed. B6 remains occluded.		
	Pre Existing Conditions:	В	3		
	Outcome to Date:	Better/Improved/Red	overing		
Product Information:	Product Name:	Solid Gold Mighty M	ni Beef, Sweet Potato, and Apple grain free dry		
	Product Type:				
	Lot Number:				
	Package Type:	BAG			
	Product Use		d/A avva killabla /divided into O wasala) d they as alred shipkan		
	Information:	Description:	1/4 cup kibble (divided into 2 meals) 1 tbsp cooked chicken BID Owner switched to Weight Control version of same diet (salmon, lentil, green bean) just a few days before visit		
	Manufacturer /Distributor Information:				
	Purchase Location Information:				
Animal Information:	Name:	B6			
	Type Of Species:	Dog			
	Type Of Breed:				
	Gender:	<u>,</u>			
	Reproductive Status:	1			
		3.72 Kilogram			
	· · · · · · · · · · · · · · · · · · ·	9 Years			
	Assessment of Prior				
	Health:				
	Given the Product:				
	Number of Animals Reacted:				
	Owner Information:	Owner Information provided:			
		Contact:	Phone: B6		
			Email: B6		
	1				

		Address:	B6 United States			
	Healthcare Professional	Practice Name:	Tufts Cummings School of Veterinary Medicine			
	Information:	Contact:	Name:	Lisa Freeman		
			Phone:	(508) 887-4523		
				lisa.freeman@tufts.edu		
		Address:	200 Westboro North Grafton Massachusetts 01536 United States			
Sender Information:	Name:	Lisa Freeman				
	Address:	North Grafton Massachusetts 01536 United States				
	Contact:	Phone:	5088874523			
		Email:	lisa.freeman@t	tufts.edu		
	Permission To Contact Sender:	Yes				
	Preferred Method Of Contact:	Email				
	Reported to Other Parties:					
Additional Documents:						
		NT-proBNP & Diet H	lx 4-5-19.pdf			
	Description:					
		Laboratory Report				
	Attachment:	\)19-01-03-1008	NT-proBNP - Copy.pdf		
	Description:					
	Туре:	Laboratory Report				
	Attachment:	troponin 5-30-2019.p	pdf			
		lab work results				
	Type:	Laboratory Report				



B6

B6

PET OWNER:

Canine SPECIES: BREED: Chihuahua Unknown

AGE: 9 Years

PATIENT ID:

GENDER:

Tufts University Attn: Lisa Freeman

200 Westboro Rd. North Grafton, MA 01536

508-839-5395

B6 ACCOUNT #: ATTENDING VET: В6 LAB ID:

ORDER ID:

2303280698 338315

COLLECTION DATE: 1/1/19 DATE OF RECEIPT: 1/2/19 DATE OF RESULT: 1/3/19

IDEXX Services:

Chemistry



1/2/19 (Order Received) 1/3/19 10:08 AM (Last Updated)

Cardiopet proBNP (Canine) **B6**

REFERENCE VALUE

0 - 900 pmol/L

B6

Please note: Complete interpretive comments for all concentrations of Cardiopet proBNP are available in the online directory of services. Serum specimens received at room temperature may have decreased NT-proBNP concentrations.

Diet Hx 4/5/19

Deems to prefer different foods than usual Ooth Over the last few weeks, has your pet (check one) Dost weight Gained weight Stayed about Please list below ALL pet foods, people food, treats currently eats and that you have fed in the last 2 year. Please provide enough detail that we could go to the Food (include specific product and flavor) Nutro Grain Free Chicken, Lentil, & Sweet Potato A. 85% lean hamburger Pupperoni original beef flavor Rawhide Yice Cake - Zeut - Free (1/4 Cake) Solid Gold Mighty Mini - Suxet Potato Approved Po	er the less ti the s snac ars.	e last 1-2 week han usual same weight ek, dental chev	ss? (check all leats more	_Excellent _Excellent that apply) e than usual and any other	food item that your pet s are shown in the table Dates fed Jan 2016-present June -Aug 2016 Sept 2016-present Dec 2018-present
Have you noticed a change in your pet's appetite or life ats about the same amount as usual seems to prefer different foods than usual often of the last few weeks, has your pet (check one). Over the last few weeks, has your pet (check one). It is considered weight stayed about the last seems of the last few weeks, has your pet (check one). It is considered weight stayed about the last below ALL pet foods, people food, treats currently eats and that you have fed in the last 2 year. Please provide enough detail that we could go to the stay of the last provide enough detail that we could go the stay of the last provide enough detail that we could go to the stay of the last provide enough detail that we could go to th	less till er tithe s snaccars.	same weight ck, dental cheve and buy the Form dry microwaved treat treat	Deats more Don't know vs, rawhides, a exact same for Amount 1 ½ cup 3 oz ½ 6 inch twist	that apply) e than usual and any other ood - examples Ex/day 1x/week 1x/day 1x/week 1 x day 5plit zy 5plit zy	Dates fed Jan 2016-present June -Aug 2016 Sept 2016-present Dec 2018-present Prior to 1-2-19 Jan 19 - present
Deats about the same amount as usual Seems to prefer different foods than usual Other the last few weeks, has your pet (check one) Lost weight Gained weight Stayed about Please list below ALL pet foods, people food, treats currently eats and that you have fed in the last 2 year Please provide enough detail that we could go to the Food (include specific product and flavor) Nutro Grain Free Chicken, Lentil, & Sweet Potato A 85% lean hamburger Pupperoni original beef flavor Rawhide Yice Cake - Seath Gree (1/4 Cake) Solid Gold Mighty Mini - Suxet Potato A Approved P	less till er tithe s snaccars.	same weight ck, dental cheve and buy the Form dry microwaved treat treat	Deats more Don't know vs, rawhides, a exact same for Amount 1 ½ cup 3 oz ½ 6 inch twist	and any other ood - examples How often? 2x/day 1x/week 1x/day 1x/week I X day split Zy 5plit Zy	Dates fed Jan 2016-present June -Aug 2016 Sept 2016-present Dec 2018-present Prior to 1-2-19 Jan 19 - present
Please list below ALL pet foods, people food, treats currently eats and that you have fed in the last 2 yes. Please provide enough detail that we could go to the Food (include specific product and flavor). Nutro Grain Free Chicken, Lentil, & Sweet Potato A 85% lean hamburger. Pupperoni original beef flavor. Rawhide Yice cake - South free (1/4 chke). Solid Gold Mighty Mini - Suker Potato A Approved Po	snac ars. store dult	Form dry microwaved treat treat	exact same for Amount 1 ½ cup 3 oz ½ 6 inch twist	How often? 2x/day 1x/week 1x/week 1 X day 5plit Z X	Dates fed Jan 2016-present June -Aug 2016 Sept 2016-present Dec 2018-present Prior to 1-2-19 Jan 19 - present
Currently eats and that you have fed in the last 2 year Please provide enough detail that we could go to the Food (include specific product and flavor) Nutro Grain Free Chicken, Lentil, & Sweet Potato A 85% lean hamburger Pupperoni original beef flavor Rawhide Yice cake - saut - Gree (1/4 class) Solid Gold Mighty Mini - Suxet Vote Appr recipe *Any additional diet information can be listed on the Do you give any dietary supplements to your pet (fo supplements)? Taurine Yes No Carnitine Yes No Antioxidants Yes No Multivitamin Yes No Multivitamin Yes No Multivitamin Yes No Multivitamin Yes No Multivitamin Yes No Multivitamin Yes No Multivitamin Yes No Multivitamin Yes No	ars. store dult	Form dry microwaved treat treat	exact same for Amount 1 ½ cup 3 oz ½ 6 inch twist	How often? 2x/day 1x/week 1x/week 1 X day 5plit Z X	Dates fed Jan 2016-present June -Aug 2016 Sept 2016-present Dec 2018-present Prior to 1-2-19 Jan 19 - Present
Food (include specific product and flavor) Nutro Grain Free Chicken, Lentil, & Sweet Potato A 85% lean hamburger Pupperoni original beef flavor Rawhide Yice cake - self free (1/4 chick) Solid Gold Mighty Mini - Suizel Pota Approved Pota Ap	dult	Form dry microwaved treat treat treat dry	Amount 1 ½ cup 3 oz ½ 6 inch twist	How often? 2x/day 1x/week 1x/day 1x/week I X day split 7-X Cally Split ZX	Dates fed Jan 2016-present June -Aug 2016 Sept 2016-present Dec 2018-present Price to 1-2-19 Jan 19 - Present
Nutro Grain Free Chicken, Lentil, & Sweet Potato A 85% lean hamburger Pupperoni original beef flavor Rawhide Yice Cake - Jout - Gree (1/4 Chicken) Solid Gold Mighty Mini - Suizet Pota Approve Pot	ato	dry microwaved treat treat +yecd d.ny	1 ½ cup 3 oz ½ 6 inch twist	2x/day 1x/week 1x/day 1x/week I X day split Zy 1ch claily	Jan 2016-present June -Aug 2016 Sept 2016-present Dec 2018-present Price to 1:2-19 Jan 19 - present
*Any additional diet information can be listed on the Do you give any dietary supplements to your pet (fo supplements)? Taurine	ato	microwaved treat treat +yead day	3 oz ½ 6 inch twist	1x/week 1x/day 1x/week I X day split Zy L daily 5plit ZX	June -Aug 2016 Sept 2016-present Dec 2018-present Price to 1-2-19 Jan 19 - Present
Pupperoni original beef flavor Rawhide Yice cake - South - Free (1/4 CN/e) Solid Gold Mighty Mini - Suxet Pote Apprecipe Apprecipe *Any additional diet information can be listed on the Do you give any dietary supplements to your pet (fo supplements)?		treat treat +yeat	6 inch twist	1x/day 1x/week 1 x day split zy 12 daily 5plit zx	Sept 2016-present Dec 2018-present Price to 1:2-19 Jan 19 - present
*Any additional diet information can be listed on the Do you give any dietary supplements to your pet (for supplements)? Taurine Carnitine Any additional diet information can be listed on the Branch Carnitine Taurine Carnitine Carnitine		treat treat dry	6 inch twist	1x/week 1 x day split zy 12 daily 5plit zx	Dec 2018-present ρίκε το 1-2-19 Σομ 19 - ρεεσυπ
*Any additional diet information can be listed on the Do you give any dietary supplements to your pet (for supplements)? Taurine Carnitine Antioxidants Multivitamin Yes No Multivitamin		treat	114 сир	1 x day split zx * claily Split ZX	price to 1-2-19 Jan 19 - presser
*Any additional diet information can be listed on the Do you give any dietary supplements to your pet (fo supplements)? Taurine Carnitine Antioxidants Multivitamin Yes No		dnj		Split ZX	Jan 19 - present
*Any additional diet information can be listed on the Do you give any dietary supplements to your pet (fo supplements)? Taurine Carnitine Antioxidants Multivitamin Yes No		dnj		Split ZX	Jan 19 - present
*Appr recipe *Any additional diet information can be listed on the Do you give any dietary supplements to your pet (fo supplements)? Taurine Carnitine Carnitine Carnitine Carnitine Antioxidants Multivitamin Yes No Multivitamin Yes No Multivitamin Yes No Multivitamin Yes No				Split ZX	Jan 19 - present
*Appr recipe *Appr recipe *Any additional diet information can be listed on the Do you give any dietary supplements to your pet (fo supplements)? Do you give any dietary supplements to your pet (fo supplements)? Do you give any dietary supplements to your pet (fo supplements)? Do you give any dietary supplements to your pet (fo supplements)? Do you give any dietary supplements to your pet (fo supplements)? Brack Taurine Carnitine Do you give any dietary supplements to your pet (fo supplements)? Brack Taurine Carnitine Do you give any dietary supplements to your pet (fo supplements)? Brack Taurine Carnitine Do you give any dietary supplements to your pet (fo supplements)? Brack Taurine Do you give any dietary supplements to your pet (fo supplements)? Brack Taurine Do you give any dietary supplements to your pet (fo supplements)? Brack Taurine Do you give any dietary supplements to your pet (fo supplements)? Brack Taurine Do you give any dietary supplements to your pet (fo supplements)? Brack Taurine Do you give any dietary supplements to your pet (fo supplements)? Brack Taurine Do you give any dietary supplements to your pet (fo supplements)? Brack Taurine Do you give any dietary supplements to your pet (fo supplements)? Brack Taurine Do you give any dietary supplements to your pet (fo supplements)? Brack Taurine Do you give any dietary supplements to your pet (fo supplements)? Brack Taurine Do you give any dietary supplements to your pet (fo supplements)? Brack Taurine Do you give any dietary supplements to your pet (fo supplements)? Brack Taurine Do you give any dietary supplements to your pet (fo supplements)? Brack Taurine Do you give any dietary supplements to your pet (fo supplements)? Brack Taurine Brack Taurine Do you give any dietary supplements to your pet (fo supplements)? Brack Taurine Bra				Split ZX	Jan 19 - present
*Any additional diet information can be listed on the Do you give any dietary supplements to your pet (fo supplements)?		dry	1/4 cmp		
*Any additional diet information can be listed on the Do you give any dietary supplements to your pet (fo supplements)? Pyes No If yes, please is Brainine Carnitine Carnitine Yes No Antioxidants Yes No Multivitamin Yes No		any	"4 cinp		
Do you give any dietary supplements to your pet (fo supplements)?	-			daily	
Do you give any dietary supplements to your pet (fo supplements)?				1 1	
Do you give any dietary supplements to your pet (fo supplements)?				,	
Do you give any dietary supplements to your pet (fo supplements)?	back	of this shoot	2.3	2	
Carnitine	t which	mple: vitamins h ones and gir oncentration	, glucosamine ve brands and	e, fatty acids, or I amounts:	r any other Amount per day
Multivitamin DYes DNo		7		_	
Coenzyme Q10				_	
Other (please list): Example: Vitamin C	Natu	re's Bounty		500 m	ng tablets – 1 per day
How do you administer pills to your pet? □₄I do not give any medications					
I put them directly in my pet's mouth without food					

NT-proBNP 4/5/19

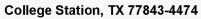
Client B6 Patient B6 IDEXX Reference Laboratories IDEXX VetConnect 1-888-433-9967 Client: B6 TUFTS UNIVERSITY 200 WESTBORO RD NORTH GRAFTON, Massachusetts 01536 Date: 04/05/2019 Requisition #: 338315 Accession # B6 Ordered by # B6 Species: CANINE Breed: CHIHUAHUA Gender: 508-839-5395 **B6** Age: 9Y CARDIOPET proBNP - CANINE CARDIOPET proBNP B6 **B6** 0 - 900 pmol/L - CANINE Comments: Please note: Complete interpretive comments for all concentrations of Cardiopet proBNP are available in the online directory of services. Serum specimens received

at room temperature may have decreased NT-proBNP concentrations.



Department of Small Animal Clinical Sciences

Texas A&M University 4474 TAMU





GI Lab Assigned Clinic ID: 23523

Phone: 508 887 4696

B6

B6

Animal Name:

Owner Name:

Tufts Cummings School of Vet Med - Cardiology/Nutrition Fax:

200 Westboro Road North Grafton, MA 01536

USA

B6

<u>Test</u>

Species: Canine
Date Received: May 30, 2019

Summings School of Vet Med - Gl Lab Accession: B6

Tufts Cummings School of Vet Med - Cardiology/Nutrition Tracking Number: 338315

Result Reference Interval Assay Date

Ultra-Sensitive Troponin I Fasting B6 ng/mL ≤0.06 05/31/19

B6

Comments:

GI Lab Contact Information

Email: gilab@cvm.tamu.edu vetmed.tamu.edu/gilab

Phone: (979) 862-2861 Fax: (979) 862-2864

Amino Acid Laboratory Sample Submission Form

Amino Acid Laboratory, 1089 Veterinary Medicine Drive, Davis, Ca 95616

Telephone: 530-752-5058, Fax: 530-752-4698

Email: ucd.aminoacid.lab@ucdavis.edu

www.vetmed.ucdavis.edu/labs/amino-acid-laboratory



Veterinarian Conta	act: B6			-	
Clinic/Company Na	ame: <u>Tufts Cummin</u>	gs School of Vet. Med	i Clinical Pathology	Laboratory	
Address: 200 West	tboro Road, North Gra	afton MA 015369			
Email: Clinpath@	tufts.edu / Cardi	ovetatufis	edu		
Telephone:	887-4669	Fax: _	508-839-7936		
Billing Contact	В6	Email	: В6		
	one: <u>508-887-4267</u>);		
Patient Name: _	B6	Specie	es: <u>Canin</u> P	<u></u>	
	huahua		:	!	
Current Diet: Sold Gold Weebites					
Sample type: Plasma Whole Blood Urine Food Other					
Test: Taurine Complete Amino Acids Other:					
Taurine Resul	Its (lab use only)				
Plasma:	Whole Blood:	B6 Urine	e: F	Food:	
	Dlasma /	nMal/ml)	Whale Dis-		
	Piasma (i	nMol/ml)	whole Bloc	od (nMol/ml)	
	Normal Range	No known risk	Normal Range	No known risk	

for deficiency

>40

>40

300-600

200-350

80-120

60-120

Cat

Dog

for deficiency

>200

>150

^{*} Please note with the recent increase in the number of dogs screened for taurine deficiency, we are seeing dogs with values within the reference ranges (or above the "no known risk for deficiency range") yet are still exhibiting signs of cardiac disease. Veterinarians are welcome to contact our laboratory for assistance in evaluating your patient's results.

From: Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo> 'Freeman, Lisa' To: Sent: 3/12/2019 11:00:00 AM RE: GILab Results Subject: Thanks, Lisa! Jennifer Jones, DVM Veterinary Medical Officer Tel: 240-402-5421 🗗 A U.S. FOOD & DRUG From: Freeman, Lisa < Lisa. Freeman@tufts.edu> Sent: Sunday, March 10, 2019 2:48 PM To: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov> Subject: FW: GILab Results Hi Jen, Troponin results on a bunch of the dogs that I've already reported. The 4 boxers are recheck values -**B5** Lisa Lisa M. Freeman, DVM, PhD, DACVN Board Certified Veterinary NutritionistTM Professor **Cummings School of Veterinary Medicine** Friedman School of Nutrition Science and Policy Tufts Clinical and Translational Science Institute Tufts University www.petfoodology.org From: Tufts Veterinary Cardiology Service Sent: Friday, March 08, 2019 10:40 AM To: Freeman, Lisa <Lisa.Freeman@tufts.edu>; **B6** Subject: FW: GILab Results I can put into SS. From: Clinical Pathology Lab <<u>clinpath@tufts.edu</u>> **Sent:** Friday, March 8, 2019 8:28 AM To: Tufts Veterinary Cardiology Service <cardiovet@tufts.edu> Subject: FW: GILab Results

Forwarding Troponin Results that I think were sent through Cardio service.

B6
Clinical Pathology Laboratory
B6
From: gilab@cvm.tamu.edu [gilab@cvm.tamu.edu] Sent: Wednesday, March 06, 2019 6:21 PM To: Clinical Pathology Lab Cc: B6 Subject: GILab Results
Greetings:
Please see the attachment for updated results for your patient(s).
To obtain results faster, you can also login to our website at http://vetmed.tamu.edu/gilab/service/clinic-login to view results immediately when they become available. Your username is B6
Thank you for using the GI Lab
The GI Lab - Promoting gastrointestinal health in companion animals (979) 862 2861; FAX (979) 862 2864; http://vetmed.tamu.edu/gilab
Accession B6 Patient: B6

Ultra-Sensitive Troponin I Fasting
Timing: Fasting Result B6 Range: 0 - 0.06
B6

Accession B6 Patient: B6

Ultra-Sensitive Troponin I Fasting Result B6 Range 0 - 0.005 B6 Patient B6 ***********************************	******************
Report Comments: ***********************************	Ultra-Sensitive Troponin I Fasting
**************************************	Result B6
Report Comments: ***********************************	B6
Report Comments: ***********************************	****************
Patient B6 ***********************************	·
Timing: Fasting Result: B6 Range: 0 - 0.06 **********************************	
Timing: Fasting Result: B6 Range: 0 - 0.06 #***********************************	
Timing: Fasting Result:	
#*************************************	Offia-Sensitive Tropoliti Trasting
Report Comments: ***********************************	
Report Comments: ***********************************	B6
**************************************	***************
Patient: B6 ***********************************	
Ultra-Sensitive Troponin I Fasting Timing: Fasting Result: B6 Range: 0 - 0.06	
Timing: Fasting Result: B6 Range: 0 - 0.06	*****************
Result: B6 Range: 0 - 0.06	Ultra-Sensitive Troponin I Fasting
	Result: B6
B 0	B6

_	
	•
	~

Accession B6 Patient: B6

Timing: Fasting Result: B6 Range: 0 - 0.06
B6

Accession B6 Patient B6

Timing: Fasting Result: B6 Range: 0 - 0.06
B6

Accession B6 Patient: B6

Ultra-Sensitive Troponin I Fasting
Timing: Fasting Result: B6
Range: 0 - 0.06
B6

Report Comments: ************************************
A coordia
Accession B6 Patient: B6

Ultra-Sensitive Troponin I Fasting
Timing: Fasting
Result: B6 Range: 0 - 0.06
B6

Report Comments: ************************************
Accession B6
Patient: B6

Timing: Fasting Result: B6 Range: 0 - 0.06
B6

Report Comments: ************************************
Accession B6 Patient: B6

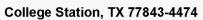
Ultra-Sensitive Troponin I Fasting
Timing: Fasting Result B6 Range: 0 - 0.06
B6

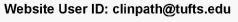
Report Comments: ************************************



Department of Small Animal Clinical Sciences Texas A&M University

4474 TAMU





GI Lab Assigned Clinic ID: 11405

Dr. Freeman

Tufts University-Clinical Pathology Lab

Attn: B6 200 Westboro Road

North Grafton, MA 01536

USA

<u>Test</u>

Phone: Fax:

508 887 4669

9 508 839 7936

Animal Name:

Owner Name:

Species:

Canine

Date Received:

Mar 06, 2019

Tufts University-Clinical Pathology Lab

Tracking Number: 337144

GI Lab Accession: B6

Ultra-Sensitive Troponin I Fasting

Result **B6**

Reference Interval

Assay Date

≤0.06

03/06/19

C	or	nı	m	e	nt	s:

GI Lab Contact Information

Email: gilab@cvm.tamu.edu Phone: (979) 862-2861 Fax: (979) 862-2864 vetmed.tamu.edu/gilab



Department of Small Animal Clinical Sciences Texas A&M University



College Station, TX 77843-4474

Website User ID: clinpath@tufts.edu

GI Lab Assigned Clinic ID: 11405

Phone: 508 887 4669 Dr. В6 Tufts University-Clinical Pathology Lab 9 508 839 7936 Fax: Attn: **B6** Animal Name: 200 Westboro Road Owner Name: North Grafton, MA 01536 USA Species: Canine Date Received: Mar 06, 2019

Tufts University-Clinical Pathology Lab Tracking Number:

GI Lab Accession

B6

Test Result Reference Interval Assay Date Ultra-Sensitive Troponin I Fasting B6 ≤ 0.06 03/06/19

Comments:

GI Lab Contact Information

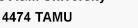
Phone: (979) 862-2861 Email: gilab@cvm.tamu.edu
Fax: (979) 862-2864 vetmed.tamu.edu/gilab



Comments:

Gastrointestinal Laboratory Dr. J.M. Steiner

Department of Small Animal Clinical Sciences Texas A&M University





Website User ID: clinpath@tufts.edu

GI Lab Assigned Clinic ID: 11405

Phone: 508 887 4669 Dr. Freeman Tufts University-Clinical Pathology Lab 9 508 839 7936 Fax: Attn: B6 Animal Name: 200 Westboro Road Owner Name: North Grafton, MA 01536 USA Species: Canine Date Received: Mar 06, 2019 **Tufts University-Clinical Pathology Lab** GI Lab Accession B6 **Tracking Number:** <u>Test</u> Reference Interval **Assay Date** <u>Result</u> **B6 Ultra-Sensitive Troponin I Fasting** ≤0.06 03/06/19

GI Lab Contact Information

Email: gilab@cvm.tamu.edu Phone: (979) 862-2861 Fax: (979) 862-2864 vetmed.tamu.edu/gilab



Department of Small Animal Clinical Sciences Texas A&M University



College Station, TX 77843-4474

Website User ID: Cardiovet@tufts.edu OR clinpath@tufts.edu

GI Lab Assigned Clinic ID: 11405

Phone: 508 887 4669 **B6** Dr. Tufts University-Clinical Pathology Lab 9 508 839 7936 Fax: Attn: **B6** Animal Name: 200 Westboro Road Owner Name: North Grafton, MA 01536 USA Species: Canine Date Received: Mar 06, 2019

Tufts University-Clinical Pathology Lab Tracking Number:

<u>Result</u>

Reference Interval

GI Lab Accession

B6

Assay Date

03/06/19

Ultra-Sensitive Troponin I Fasting B6 ≤0.06

В6

Comments:

Phone: (979) 862-2861 Fax: (979) 862-2864

<u>Test</u>

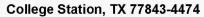
GI Lab Contact Information

Email: gilab@cvm.tamu.edu vetmed.tamu.edu/gilab



Department of Small Animal Clinical Sciences Texas A&M University

4474 TAMU



Website User ID: Cardiovet@tufts.edu OR clinpath@tufts.edu

GI Lab Assigned Clinic ID: 11405

B6 Phone: 508 887 4669 Dri Tufts University-Clinical Pathology Lab 9 508 839 7936 Fax: Attn: В6 Animal Name: 200 Westboro Road Owner Name: North Grafton, MA 01536 USA Species: Canine Date Received: Mar 06, 2019 **Tufts University-Clinical Pathology Lab** GI Lab Accession: **B6**

Tracking Number:

<u>Test</u> Reference Interval **Assay Date** <u>Result</u> **B6 Ultra-Sensitive Troponin I Fasting** ≤0.06 03/06/19

Comments:

GI Lab Contact Information

Email: gilab@cvm.tamu.edu Phone: (979) 862-2861 Fax: (979) 862-2864 vetmed.tamu.edu/gilab



Department of Small Animal Clinical Sciences Texas A&M University



College Station, TX 77843-4474

Website User ID: clinpath@tufts.edu

GI Lab Assigned Clinic ID: 11405

Dr. Freeman
Tufts University-Clinical Pathology Lab
Attn: B6
200 Westboro Road

Phone:
508 887 4669
9 508 839 7936
Animal Name:

200 Westboro Road

North Grafton, MA 01536

USA

Animai Name:

Owner Name:

Species:

Date Received: Mar 06, 2019

B6

Tufts University-Clinical Pathology Lab Tracking Number:

Ultra-Sensitive Troponin I Fasting

Test Result Reference Interval Assay Date

B6

Comments:

GI Lab Contact Information

Phone: (979) 862-2861 Email: gilab@cvm.tamu.edu
Fax: (979) 862-2864 vetmed.tamu.edu/gilab

Canine

B6

03/06/19

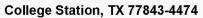
GI Lab Accession

≤0.06



Department of Small Animal Clinical Sciences Texas A&M University

4474 TAMU



Website User ID: clinpath@tufts.edu

GI Lab Assigned Clinic ID: 11405

- Tab Assigned Chille ID. 11405				
Dr. B6 Tufts University-Clinical Pathology Lab Attn: B6	Phone: Fax:		508 887 466 9 508 839 793	
200 Westboro Road		Animal Name: Owner Name:	B6	
North Grafton, MA 01536 USA		Species:	Canin	
		Date Received:	Mar 06, 201	
Tufts University-Clinical Pathology Lab Tracking Number:		GI Lab	Accession B6	
Test	Result	Reference Interval	Assay Date	
Ultra-Sensitive Troponin I Fasting	B6	≤0.06	03/06/19	
	B 6			
Comments:				

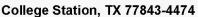
GI Lab Contact Information

Phone: (979) 862-2861 Email: gilab@cvm.tamu.edu
Fax: (979) 862-2864 vetmed.tamu.edu/gilab



Department of Small Animal Clinical Sciences Texas A&M University

4474 TAMU



Website User ID: clinpath@tufts.edu

GI Lab Assigned Clinic ID: 11405

Dr. B6 Phone: 508 887 4669 Tufts University-Clinical Pathology Lab 9 508 839 7936 Fax: Attn: В6 Animal Name: 200 Westboro Road Owner Name: North Grafton, MA 01536 USA Species: Canine Date Received: Mar 06, 2019

Tufts University-Clinical Pathology Lab Tracking Number:

GI Lab Accession:

B6

Comments:

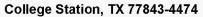
GI Lab Contact Information

Phone: (979) 862-2861 Email: gilab@cvm.tamu.edu
Fax: (979) 862-2864 vetmed.tamu.edu/gilab



Department of Small Animal Clinical Sciences Texas A&M University





Website User ID: clinpath@tufts.edu

GI Lab Assigned Clinic ID: 11405

Phone: 508 887 4669 Dr В6 Tufts University-Clinical Pathology Lab 9 508 839 7936 Fax: Attn: **B6** Animal Name: 200 Vvestporo Road Owner Name: North Grafton, MA 01536 USA Species: Date Received: Mar 06, 2019

Tufts University-Clinical Pathology Lab Tracking Number:

GI Lab Accession

B6

<u>Test</u> Reference Interval Result **Assay Date B6 Ultra-Sensitive Troponin I Fasting** ≤0.06 03/06/19

Comments:

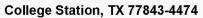
GI Lab Contact Information

Email: gilab@cvm.tamu.edu Phone: (979) 862-2861 Fax: (979) 862-2864 vetmed.tamu.edu/gilab



Department of Small Animal Clinical Sciences Texas A&M University





Website User ID: clinpath@tufts.edu

GI Lab Assigned Clinic ID: 11405

Of Eub Assigned Offine ID. 11400			
Dr. B6 Tufts University-Clinical Pathology Lab Attn: B6 200 Westboro Road North Grafton, MA 01536 USA		Phone: Fax: Animal Name: Owner Name: Species: Date Received:	508 887 4669 9 508 839 7936 B6 Canine Mar 06, 2019
Tufts University-Clinical Pathology Lab Tracking Number:		GI Lab i	Accession: B6
Test	<u>Result</u>	Reference Interval	Assay Date
Ultra-Sensitive Troponin I Fasting	В6	≤0.06	03/06/19
	B6		
Comments:			

GI Lab Contact Information

Phone: (979) 862-2861 Email: gilab@cvm.tamu.edu
Fax: (979) 862-2864 vetmed.tamu.edu/gilab



Phone: (979) 862-2861 Fax: (979) 862-2864

Gastrointestinal Laboratory Dr. J.M. Steiner

Department of Small Animal Clinical Sciences Texas A&M University 4474 TAMU

College Station, TX 77843-4474

Notices:

Internal Medicine Conference

Join us for a unique continuing education event in Phuket, Thailand Oct 7th -11th, 2019. For details see http://texasimconference.tamu.edu

Ongoing studies

Cobalamin Supplementation Study- Dogs and cats with cobalamin deficiency with normal PLI. and either normal or low(consistent with EPI) TLI to compare the efficacy of oral vs parenteral cobalamin supplementation. Contact Dr. Chang at chchang@cvm.tamu.edu for further information.

Chronic Pancreatitis with Uncontrolled Diabetes Mellitus- Seeking dogs with chronic pancreatitis and uncontrolled diabetes mellitus for enrollment into a drug trial(medication provided at no cost). Contact Dr. Sue Yee Lim at slim@cvm.tamu.edu or Dr. Sina Marsilio at smarsilio@cvm.tamu.edu

Dogs with Primary Hyperlipidemia- Prescription diet naïve dogs newly diagnosed with primary hyperlipidemia are eligible to be enrolled in a dietary trial. Contact Dr. Lawrence at ylawrence@cvm.tamu.edu for more information.

Dogs with Chronic Pancreatitis-Dogs with chronic pancreatitis (cPLi >400µg/L) and hypertriglyceridemia (>300 mg/dl) are eligible to be enrolled in a dietary trial. Contact Dr. Lawrence at ylawrence@cvm.tamu.edu

Chronic enteropathies in dogs-Please fill out this brief form http://tinyurl.com/ibd-enroll to see if your patient qualifies.

Feline Chronic Pancreatitis- Cats with chronic pancreatitis for more than 2 weeks and fPLI >10 ug/L are eligible for enrollment into a treatment trial investigating the efficacy of prednisolone or cyclosporine. Please contact Dr. Yamkate for further information at pyamkate@cvm.tamu.edu.

We can not accept packages that are marked "Bill Receiver"

Use our preprinted shipping labels to save on shipping. Call 979-862-2861 for assistance. The GI Lab is not here to accept packages on the weekend. Samples may be compromised if you ship for arrival on Saturday or Sunday or if shipped via US Mail.

GI Lab Contact Information

Email: gilab@cvm.tamu.edu vetmed.tamu.edu/gilab

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0A3B17EBFCF14A6CB8E94F322906BADD-

Rotstein, David </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

DROTSTEI>

To: Carey, Lauren; Ceric, Olgica; Glover, Mark; Jones, Jennifer L; Nemser, Sarah; Palmer, Lee

Anne; Peloquin, Sarah; Queen, Jackie L; Rotstein, David

Sent: 11/11/2018 1:56:12 AM

Subject: DCM (not Lisa Freeman and/or Tufts) 11/10/2018 2055

Attachments: Wellness Simple Limited Ingredient Diet Grain-Free Healthy Weight Salmon & Peas Formula

Dry Dog Food: **B6** - EON-370755

David Rotstein, DVM, MPVM, Dipl. ACVP CVM Vet-LIRN Liaison CVM OSC/DC/CERT 7519 Standish Place 240-506-6763 (BB)





From:

This e-mail message is intended for the exclusive use of the recipient(s) named above. It may contain information that is protected, privileged, or confidential, and it should not be disseminated, distributed, or copied to persons not authorized to receive such information. If you are not the intended recipient, any dissemination, distribution, or copying is strictly prohibited. If you think you received this e-mail message in error, please e-mail the sender immediately at david.rotstein@fda.hhs.gov.

From: PFR Event <pfreventcreation@fda.hhs.gov>

To: Cleary, Michael *; HQ Pet Food Report Notification; B6

Sent: 11/10/2018 6:44:26 PM

Subject: Wellness Simple Limited Ingredient Diet Grain-Free Healthy Weight Salmon &

Peas Formula Dry Dog Food **B6** EON-370755

Attachments: 2058695-report.pdf; 2058695-attachments.zip

A PFR Report has been received and PFR Event [EON-370755] has been created in the EON System.

A "PDF" report by name "2058695-report.pdf" is attached to this email notification for your reference. Please note that all documents received in the report are compressed into a zip file by name "2058695-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-370755

ICSR #: 2058695

EON Title: PFR Event created for Wellness Simple Limited Ingredient Diet Grain-Free Healthy Weight Salmon

& Peas Formula Dry Dog Food; 2058695

AE Date	08/06/2018	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Unknown
Breed	Retriever - Golden		
Age	B6 Years		
District Involved	PFR B6 DO		

Product information

Individual Case Safety Report Number: 2058695

Product Group: Pet Food

Product Name: Wellness Simple Limited Ingredient Diet Grain-Free Healthy Weight Salmon & Peas Formula

Dry Dog Food

Description: Low taurine level, eating Wellness Simple grain free for 3 months prior to testing and Wellness

Core Low fat Grain Free food for 3 years before that. Taurine level wa **B6** Echo showed NO DCM

Submission Type: Initial

Report Type: Adverse Event (a symptom, reaction or disease associated with the product)

Outcome of reaction/event at the time of last observation: Unknown

Number of Animals Treated With Product: 1 Number of Animals Reacted With Product: 1

Product Name	Lot Number or ID	Best By Date
Wellness Simple Limited Ingredient Diet Grain-Free Healthy Weight Salmon & Peas Formula Dry Dog Food		

Sender information

B6

USA

To view this PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-370755

To view the PFR Event Report, please click the link below:

 $\underline{https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none\&e=0\&issueType=12\&issueId=387724$

This email and attached document are being provided to you in your capacity as a Commissioned Official with the U.S. Department of Health and Human Services as authorized by law. You are being provided with this information pursuant to your signed Acceptance of Commission.

This email message is intended for the exclusive use of the recipient(s) named above. It may contain information that is protected, privileged, or confidential. Any dissemination, distribution, or copying is strictly prohibited.

The information is provided as part of the Federal-State Integration initiative. As a Commissioned Official and state government official, you are reminded of your obligation to protect non-public information, including trade secret and confidential commercial information that you receive from the U.S. Food and Drug Administration from further disclosure. The information in the report is intended for situational awareness and should not be shared or acted upon independently. Any and all actions regarding this information should be coordinated through your local district FDA office.

Failure to adhere to the above provisions could result in removal from the approved distribution list. If you think you received this email in error, please send an email to FDAReportableFoods@fda.hhs.gov immediately.

TF.V.V1			
	reaction or disease a	associated with the product)	
(a cymptom,			
35:47 EST			
cription:	Low taurine level, eating Wellness Simple grain free for 3 months prior to testing and Wellness Core Low fat Grain Free food for 3 years before that. Taurine level was B6 Echo showed NO DCM		
em Started:	08/06/2018		
ent Medical Problem:	No		
me to Date:	Unknown		
> :	Wellness Simple Lin Peas Formula Dry D	nited Ingredient Diet Grain-Free Healthy Weight Salmon &	
oduct Type:	\$ -		
ot Number:			
UPC:	7634489329		
kage Type:	BAG		
ckage Size:			
	05/21/2018		
Possess Unopened Product:			
ss Opened Product:	No		
Conditions:	In original bag in covered container in garage		
roduct Use	Description:	4 cups a day	
nformation:	First Exposure Date:		
	Last Exposure Date:		
	Time Interval between Product Use and Adverse Event:		
	Product Use Stopped After the Onset of the Adverse Event:		
	Adverse Event Abate After Product Stop:		
	Product Use Started Again:	No	
	Perceived Relatedness to Adverse Event:		
	Other Foods or Products Given to the Animal During This Time Period:	No	
a	nufacturer	Started Again: Perceived Relatedness to Adverse Event: Other Foods or Products Given to the Animal During This Time	

	/Distributor Information:	Type(s):	Distributor			
			Massachusetts 01876-1274 United States			
		Contact:				
		Possess One or More Labels from This Product:	Yes			
	Purchase Location	Name:	Chewy.com			
	Information:	Address:	United States			
Animal Information:	Name:	B6				
	Type Of Species:	Dog				
		Retriever - Golden				
	Gender:					
	Reproductive Status:					
	-	71 Pound				
		B6 Years				
	Assessment of Prior Health:	!				
	Number of Animals Given the Product:	1				
	Number of Animals Reacted:	1				
	Owner Information:					
	Healthcare Professional	Practice Name:	UC Davis			
	Information:	Contact:				
		0011111011	Phone: (530) 752-2475			
		Address:	Davis California United States			
		Veterinarian:	Referred veterinarian			
		Date First Seen:				
		Permission to Release Records to FDA:	No			
Sender Information:	Name:					
	Address:	B6				
		United States				
	Contact:	Email:	B6			
	Reporter Wants to Remain Anonymous:					
	Permission To Contact Sender:	Yes				
	Preferred Method Of Contact:	Email				
	Reported to Other Parties:	None				
Additional Documents:						
	Attachment:	B6 taurine level.	pdf			
		Taurine results from				
		e: Laboratory Report				
	, у рс.	, East, and J Hopelt				

Attachment:		echo.pdf
	Echocardiagram	report
	Echocardiogram	

BERKELEY • DAVIS • IRVINE • LOS ANGELES • MERCED • RIVERSIDE • SAN DIEGO • SAN FRANCISCO SANTA BARBARA • SANTA CRUZ			
B6			
Cardiology Report			
Dr. B6			
B6 is a 6-year-old FS golden retriever belonging to B6 who presented to the B6 section B6 who presented to the B6 section			
Cardiac Diagnosis: Normal echocardiogram.			
Chief Concerns/Major History: B6 presented for an initial cardiac examination. He is part of a Golden Retriever lifetime study. Recent bloodwork showed a low normal taurine level of under 250 B6 so it was suggested that he receive an echocardiogram. B6 is doing well at home and not showing any clinical signs of heart disease. He is eating a low fat grain free diet. B6 is currently receiving eye medication fo B6			
Cardiology Exam:			
B6			
CV: I/VI left apical systolic heart murmur. Regular rhythm. Strong and synchronous pulses. B6			
Echocardiogram Subjective Findings: B6			
B6			
Echocardiogram Objective Findings: B6			
B6			
Assessment/Recommendations: There is no evidence of significant cardiomyopathy seen on this exam. There are trace insufficiencies of the mitral and tricuspid valves, which are hemodynamically insignificant at this time. No cardiac medications are warranted at this time. Consider switching to a non-grain-free diet due to low normal contractile function.			
Medications: No cardiac medications warranted at this time.			
Follow-up: No recheck necessary unless signs of a heart murmur is ausculted or an arrhythmia is seen or ausculted.			
Thank you very much for allowing me to be of service to you and your clients. Please feel free to contact me with any questions or concerns.			

BERKELEY • DAVIS • IRVINE • LOS ANGELES • MERCED • RIVERSIDE • SAN DIEGO • SAN FRANCISCO



SANTA BARBARA • SANTA CRUZ

STERN CARDIAC GENETICS LABORATORY JOSHUA A. STERN, DVM, PHD, DACVIM (CARDIOLOGY)

sterngenetics@ucdavis.edu; August 9, 2018

FREQUENTLY REQUESTED INFORMATION REGARDING TAURINE & DILATED CARDIOMYOPATHY IN GOLDEN RETRIEVERS

Taurine reference ranges for Golden Retrievers: The Stern Lab suggests that the following clinical reference ranges be used for Golden Retrievers and be considered for other known taurine-sensitive breeds such as Newfoundlands or American Cocker Spaniels. This is primarily based on 3 observations:

- 1. Golden Retrievers with marginal taurine levels (defined below) have been diagnosed with dilated cardiomyopathy and have documented disease reversal after taurine supplementation and diet change.
- 2. Previously published work documents taurine sensitivity in Golden Retrievers.
- 3. The most recently published reference on normal blood taurine values shows higher levels than previously reported.
 - o Normal whole blood taurine: >250nmol/mL
 - Normal plasma taurine: >70nmol/mL
 - o Marginal whole blood taurine: 200-250nmol/mL
 - o Marginal plasma taurine: 60-70nmol/mL
 - Low whole Blood taurine: <200nmol/mL
 - Low plasma taurine: <60nmol/mL

References:

Kramer GA, Kittleson MD, Fox PR, Lewis J, Pion PD. Plasma taurine concentrations with normal dogs and in dogs with heart disease. J Vet Intern Med 1995;9:253-258.

Belanger MC, Ouellet M, Queney G, Moreau M. Taurine-deficient dilated cardiomyopathy in a family of golden retrievers. J Am Anim Hosp Assoc 2005;41:284-291.

Kittleson MD, Keene B, Pion PD, Loyer CG, MUST Study Investigators. Results of the multicenter spaniel trial (MUST): taurine- and carnitine-responsive dilated cardiomyopathy in American Cocker Spaniels with decreased plasma taurine concentration. J Vet Intern Med 1197;11:204-211.

Backus RC, Choen G, Pion PD, Good KL, Rogers QR, Fascetti AJ. Taurine deficiency in Newfoundlands fed commercially available complete and balanced diets. J Am Vet Med Assoc 2003;223:1130-1136.

Fascetti AJ, Reed JR, Rogers QR, Backus RC. Taurine deficiency in dogs with dilated cardiomyopathy: 12 cases (1997-2001). J Am Vet Med Assoc 2003;223:1137-1141.

Freeman LM, Michel KE, Brown DJ, Kaplan PM, Stamoulis ME, Rosenthal SL, Keene BW, Rush JE. Idiopathic dilated cardiomyopathy in Dalmatians: nine cases (1990-1995). J Am Vet Med Assoc 1996;209:1592-1596.

Delaney SJ, Kass PH, Rogers QR, Fascetti AJ. Plasma and whole blood taurine in normal dogs of varying size fed commercially prepared food. J Anim Physiol a Anim Nutr 2003;87:236-244.

Plasma vs. whole blood taurine testing:

If at all possible, we recommend that paired (plasma and whole blood) taurine samples be submitted for analysis. A low value on either or both tests is clinically relevant. If your dog is diagnosed with DCM, submitting paired taurine samples (plasma and whole blood) is imperative. We recommend that the UC Davis Amino Acid Laboratory be used for taurine testing, as this is where the literature utilized for our reference ranges was generated. https://www.vetmed.ucdavis.edu/labs/amino-acid-laboratory. If a single test is submitted the Stern Lab recommends that whole blood be submitted preferentially. This is due to the false elevation of taurine levels that is possible in plasma samples due to sample handling issues. This is an area of some debate between clinicians and conflicting information on preference for plasma vs. whole blood exists. This underscores the value of paired sampling.

Page 1 of 3

Clinical Recommendations for Golden Retrievers based on taurine levels:

If taurine levels test < 200 nmol/mL in whole blood or < 60 nmol/mL in plasma

- An echocardiogram by a board-certified veterinary cardiologist is indicated
- After echocardiogram has been completed, a diet change is recommended.
 - o If DCM is diagnosed, this patient may need a variety of cardiac medications that would be prescribed by the attending cardiologist.
 - o If DCM is diagnosed, prescribed supplementation with oral taurine and l-carnitine is recommended.
 - Reevaluation of taurine levels is warranted after three months of diet change and supplementation.
 - Cardiology reevaluation schedules will be recommended by the attending clinician pending echocardiographic findings.
 - Many Golden Retrievers with taurine-deficient DCM in our study showed slow and steady improvement over a period of 6-12 months.

If taurine levels test 200 – 250nmol/mL in whole blood or 60-70nmol/mL in plasma

- An echocardiogram by a board-certified cardiologist is recommended.
- After echocardiogram has been completed, a diet change is recommended.
- We recognize that many dogs in this category may have normal echocardiograms and thus the value of screening should be carefully considered. If the dog is eating a diet that falls within the FDA warning or shares features with the diets identified in our study (see diets of concern section below), we encourage echocardiographic screening with greater enthusiasm.
- If an echocardiogram is not performed, a diet change is still recommended and a taurine level reevaluation after three months on the new diet should be considered.
- If DCM is diagnosed, this patient may need a variety of cardiac medications that would be prescribed by the attending cardiologist.
 - o If DCM is diagnosed, prescribed supplementation with oral taurine and l-carnitine is recommended.
 - Reevaluation of taurine levels is warranted after three months of diet change and supplementation.
 - Cardiology reevaluation schedules will be recommended by the attending clinician pending echocardiographic findings.
 - o Many Golden Retrievers with taurine-deficient DCM in our study showed slow and steady improvement over a period of 6-12 months.

If taurine levels test > 250nmol/mL in whole blood or > 70nmol/mL in plasma

- Diet change is recommended if you are feeding a diet that falls within the FDA warning or shares features with the diets identified in our study (see diets of concern section below)
- If your pet shows any signs of cardiac disease (trouble breathing, exercise intolerance, fainting/collapse, coughing) we recommend your veterinarian evaluate your pet.

Diets of Concern & Choosing a diet

The FDA alert called attention to several dietary ingredients that should be considered when evaluating whether your pet is at risk (for example legumes like peas and lentils, white or sweet potatoes). These findings were largely recapitulated in our current study of Golden Retrievers with low taurine levels and DCM. Our lab considers these ingredients to be of greatest concern when present within the first 5 listed ingredients on the dog food bag. Additionally, we noted a high percent of diets in our study were using protein sources other than chicken or beef and labeled as grain-free.

Points to consider when making a diet change:

- Choose a diet that does not contain the concerning components listed above
- Choose a diet that meets the WSAVA Global Nutrition Assessment Guidelines published as consensus by veterinary nutritionists from around the world:
 - o https://www.wsava.org/WSAVA/media/Arpita-and-Emma-editorial/Selecting-the-Best-Food-for-your-Pet.pdf
- FDA alert found here:
 - o https://www.fda.gov/AnimalVeterinary/NewsEvents/CVMUpdates/ucm613305.htm

Choosing a taurine or l-carnitine supplement:

Selecting supplements should be performed based upon those that match their stated contents and are readily available for absorption. Luckily a previous publication tested multiple taurine and l-carnitine supplements. Based upon this publication our laboratory recommends the following supplements as those meeting our quality criteria. (Bragg et al. 2009 J Am Vet Med Assoc; 234(2))

Tested taurine supplements that test within 5% of stated contents and if applicable disintegrated within 30 minutes

- Mega taurine caps by Twinlab (1000 capsule)
- Taurine by Swanson Health Products (500mg capsule)
- Taurine by NOW foods (500mg capsule)
- Taurine 500 by GNC (500mg tablet)

<u>Tested L-carnitine supplements that test within 5% of stated contents and if applicable disintegrated within 30 minutes</u>

- L-carnitine 500 by Jarrow Formulas (500mg capsule)
- L-carnitine caps by Country Life (500mg capsule)
- Maxi L-carnitine by Solgar Vitamin and Herb (500mg tablet)
- L-carnitine by Puritan's Pride (500mg tablet)

The Stern lab does not recommend the empirical supplementation of taurine or l-carnitine to dogs without evidence of DCM and/or significant deficiency. If DCM is diagnosed we typically recommend dogs over 50lbs receive 1000mg of taurine every 12hrs and dogs under 50lbs receive 500mg of taurine every 12hours. We recommend L-carnitine at a dose of \sim 50mg/kg orally with food every 8hrs. Your veterinary cardiologist or family veterinarian should be consulted for prescribing the best dose for your dog.

Reporting to the FDA:

Understanding the basis of this condition requires a great deal of research and investigation. Clients with affected dogs can contribute their data to help propel this research forward. You can report cases of taurine deficiency, dilated cardiomyopathy, sudden cardiac death, or any combination of these events to the FDA by following the information found here:

https://www.fda.gov/animalveterinary/safetyhealth/reportaproblem/ucm182403.htm

Additional questions or comments: <u>sterngenetics@ucdavis.edu</u> This document last updated: Aug. 20, 2018

Page 3 of 3



CARDIOLOGY SERVICE UPDATES: DOG FOOD & DILATED CARDIOMYOPATHY

The Cardiology Service has developed this document in response to the alerts from the FDA. These alerts identify an associated risk for some grain-free diets containing certain ingredients (legumes like peas, pea components, lentils; white potatoes, sweet potatoes) and a diagnosis of dilated cardiomyopathy (DCM). The links provided throughout this document can be copied and pasted to obtain additional information.

FDA Alerts found here:

https://www.fda.gov/AnimalVeterinary/NewsEvents/CVMUpdates/ucm613305.htm https://www.fda.gov/AnimalVeterinary/ResourcesforYou/AnimalHealthLiteracy/ucm616279.htm

What is Dilated Cardiomyopathy (DCM)?

DCM is a heart muscle disorder that results in a weak pump function and heart chamber enlargement. In the early stages of this disease pets may appear totally healthy with no apparent clinical signs. Later in the course of this disease, dogs may have a heart murmur, an arrhythmia (irregular heart beat), collapse episodes, weakness or tiredness with exercise, and even trouble breathing from congestive heart failure. While there are some breeds of dogs (like Dobermans) that have a genetic predisposition to development of DCM, there are also nutritional factors that may result in this disease.

What should I do?

If you are feeding a diet of concern based upon the FDA alert we recommend that you consult with your veterinarian or veterinary cardiologist. We provide 4 general points for guidance below:

1. An initial step is to **consider whether you are willing or interested in performing additional testing** to assess whether your pet is affected with DCM. If you believe your dog is at risk, showing any of the aforementioned clinical signs or would prefer to simply rule out any heart disease, we recommend that you first have your pet's taurine levels tested (both whole blood and plasma levels) as well as seek an echocardiogram by a board-certified veterinary cardiologist. Low taurine levels are associated with development of DCM in dogs and are sometimes a component of this current issue.

Information on taurine testing can be found here: https://www.vetmed.ucdavis.edu/labs/amino-acid-laboratory

2. At this time, **diet change is recommended when possible** and should be considered regardless of the results obtained from any testing. You can consult with your veterinarian in selecting a new diet that avoids the ingredients of concern listed by the FDA. When selecting this diet, we recommend that you choose a diet that is manufactured with rigorous quality control measures and research behind the formulation. A way to ensure that your diet meets these recommendations is to follow the following guidelines that were generated by a large number of the world's leading experts in veterinary nutrition.

Food selection guidelines found here:

https://www.wsava.org/WSAVA/media/Arpita-and-Emma-editorial/Selecting-the-Best-Food-for-your-Pet.pdf

3. If your pet is identified through testing to have a low blood taurine level or evidence of DCM by echocardiogram, we urge you to **report this information to the FDA**.

FDA reporting guidelines found here: https://www.fda.gov/AnimalVeterinary/SafetyHealth/ReportaProblem/ucm182403.htm

4. **Work with your veterinarian**(s) to determine the best course of action and medical treatments if indicated. In the case of a DCM diagnosis, diet change alone may not be sufficient and additional medications may be prescribed.

Please continue to monitor the FDA website and the UC Davis School of Veterinary Medicine Newsfeeds for updates and recommendations regarding this issue.

Palmer, Lee Anne </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP From:

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CF7C8BD53B6C45A39318A596ACEA7C53-

LPALMER>

To: Reimschuessel, Renate; Ceric, Olgica; Nemser, Sarah; Jones, Jennifer L; Peloquin, Sarah

CC: Rotstein, David; Carey, Lauren; Hartogensis, Martine

8/1/2018 12:11:35 PM Sent:

EON-359970 RE: 800.267-FDA Case Investigation for **B6** Subject:

Thanks – I have been following a FB page from my home computer (without commenting in any way, of course). I wonder if it's the same - many had been working with Josh Stern at UC Davis. Hopefully some will report to us as well.

From: Reimschuessel, Renate

Sent: Wednesday, August 1, 2018 8:01 AM

To: Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Jones, Jennifer

L <Jennifer.Jones@fda.hhs.gov>; Peloquin, Sarah <Sarah.Peloquin@fda.hhs.gov>

Cc: Rotstein, David <David.Rotstein@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Palmer, Lee

Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>

Subject: FW: 800.267-FDA Case Investigation for **B6** EON-359970

Dear folks

One of the owners who reported a case mentioned to me that there is a facebook page which has information crowd-sourced from owners regarding grain-free products and DCM. She offered to send it to me and I said sure send it but I recommended she advise owners to submit reports to FDA.

This morning I received the file, and again suggested she advise owners to submit to FDA through the portal.

I'm sharing the file for your additional information.

Renate Reimschuessel V.M.D. Ph.D. Director Vet-LIRN

Phone 1-240-402-5404

Fax 301-210-4685

http://www.fda.gov/AnimalVeterinary/ScienceResearch/ucm247334.htm

From: Reimschuessel, Renate

Sent: Wednesday, August 1, 2018 7:54 AM

B6 B6 EON-359970

Subject: RE: 800.267-FDA Case Investigation for

Thank you for the information.

Again – please urge the users of the Facebook page to report their individual cases to FDA directly.

A consumer complaint can be submitted through the Safety Reporting Portal: https://www.safetyreporting.hhs.gov

Best Regards,

Renate Reimschuessel V.M.D. Ph.D. Director Vet-LIRN

Phone 1-240-402-5404

Fax 301-210-4685

From	B6				
Sent: `	Tuesday, July 31, 2018 10:57 PM				
To: Re	eimschuessel, Renate < <u>Renate.Reimschuessel</u>	@fda.hhs.gov>			
Subje	ct: Re: 800.267-FDA Case Investigation for	B6 EON-359	9970		
Hi Dr.	Reimschuessel,				
Please	e find the attached Diet and Taurine Table Sprea	adsheet. B6	is ar	В6	and is
aware their n	this document is being emailed to you. Out of	respect for the prive	acy of the do	g owners, I've c	rossed out
ΔII of t	he information on these pages was supplied by	the individual doa	owners Itis	sorted by dog f	ood brand

All of the information on these pages was supplied by the individual dog owners. It is sorted by dog food brand in an effort to help members easily see which foods may be a problem and which foods produce good taurine levels. The areas highlighted in yellow represent low taurine results and the brand and formula fed at the time the blood work was performed. Not all dogs diagnosed with low taurine had echocardiograms performed, but the results are noted for those that did.

Please let me know when you receive this.

Thank you,

B6

From: Palmer, Lee Anne </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CF7C8BD53B6C45A39318A596ACEA7C53-

LPALMER>

To: Hartogensis, Martine; Reimschuessel, Renate; Ceric, Olgica; Nemser, Sarah; Jones, Jennifer L;

Peloquin, Sarah

CC: Rotstein, David; Carey, Lauren

Sent: 8/1/2018 12:16:19 PM

Subject: RE: 800.267-FDA Case Investigation for B6 EON-359970

The one I've been following (behind the scenes) on FB is "Taurine-Deficient Dilated Cardiomyopathy" which is focused on the condition in Golden Retrievers (at least originally), but has expanded beyond the breed. They're working closely with Josh Stern at UC Davis. From a glance at the data, I assume it's the same group.

From: Hartogensis, Martine

Sent: Wednesday, August 1, 2018 8:13 AM

To: Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica

<Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Jones, Jennifer L

<Jennifer.Jones@fda.hhs.gov>; Peloquin, Sarah <Sarah.Peloquin@fda.hhs.gov>

Cc: Rotstein, David <David.Rotstein@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Palmer, Lee

Anne <LeeAnne.Palmer@fda.hhs.gov>

Subject: RE: 800.267-FDA Case Investigation fc B6 EON-359970

Thanks Renate! Is this a Golden Retriever group? A lot of Golden and Golden mixes.

The owner sent you the spreadsheet or is it from CVCA/UC Davis?

Martine

From: Reimschuessel, Renate

Sent: Wednesday, August 01, 2018 8:01 AM

To: Ceric, Olgica < Olgica. Ceric@fda.hhs.gov>; Nemser, Sarah < Sarah. Nemser@fda.hhs.gov>; Jones, Jennifer

L <Jennifer.Jones@fda.hhs.gov>; Peloquin, Sarah <Sarah.Peloquin@fda.hhs.gov>

Cc: Rotstein, David < David.Rotstein@fda.hhs.gov >; Carey, Lauren < Lauren.Carey@fda.hhs.gov >; Palmer, Lee

Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>

Subject: FW: 800.267-FDA Case Investigation for B6 EON-359970

Dear folks

One of the owners who reported a case mentioned to me that there is a facebook page which has information crowd-sourced from owners regarding grain-free products and DCM. She offered to send it to me and I said sure send it but I recommended she advise owners to submit reports to FDA.

This morning I received the file, and again suggested she advise owners to submit to FDA through the portal.

I'm sharing the file for your additional information.

rr

Renate Reimschuessel V.M.D. Ph.D. Director Vet-LIRN

Phone 1-240-402-5404

Fax 301-210-4685

 $\underline{\text{http://www.fda.gov/AnimalVeterinary/ScienceResearch/ucm247334.htm}}$

From: Reimschuessel, Renate

Sent: Wednesday, August 1, 2018 7:54 AM

To: B6 Subject: RE: 800.267-FDA Case Investigation for B6 EON-359970
the state of the s
Thank you for the information.
Again – please urge the users of the Facebook page to report their individual cases to FDA directly.
A consumer complaint can be submitted through the Safety Reporting Portal: https://www.safetyreporting.hhs.gov
Best Regards,
Renate Reimschuessel V.M.D. Ph.D. Director Vet-LIRN Phone 1-240-402-5404 Fax 301-210-4685 http://www.fda.gov/AnimalVeterinary/ScienceResearch/ucm247334.htm
From: Sent: Tuesday, July 31, 2018 10:57 PM To: Reimschuessel, Renate < Renate. Reimschuessel@fda.hhs.gov > Subject: Re: 800.267-FDA Case Investigation for B6 EON-359970
Hi Dr. Reimschuessel,
Please find the attached Diet and Taurine Table Spreadsheet. B6 is an B6 and is aware this document is being emailed to you. Out of respect for the privacy of the dog owners, Tve crossed out their names.
All of the information on these pages was supplied by the individual dog owners. It is sorted by dog food brand in an effort to help members easily see which foods may be a problem and which foods produce good taurine evels. The areas highlighted in yellow represent low taurine results and the brand and formula fed at the time the blood work was performed. Not all dogs diagnosed with low taurine had echocardiograms performed, but the results are noted for those that did.
Please let me know when you receive this.
Thank you,
B6

From: Reimschuessel, Renate </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4C00C47AE2794134B2906D6B9252FCF6-

RREIMSCH>

To: Palmer, Lee Anne; Hartogensis, Martine; Ceric, Olgica; Nemser, Sarah; Jones, Jennifer L;

Peloquin, Sarah

CC: Rotstein, David; Carey, Lauren

Sent: 8/1/2018 12:19:56 PM

Subject: RE: 800.267-FDA Case Investigation for B6 FEON-359970

This was sent to me by the owner of a dog that did report to FDA and has been sending me the dog's medical records.

She mentioned the FB page. It looks like it might be the one Lee Anne has looked at since most of the bloodwork is from Davis.

Jen – has Josh Stern been in the group that we spoke with?

Renate Reimschuessel V.M.D. Ph.D. Director Vet-LIRN

Phone 1-240-402-5404

Fax 301-210-4685

http://www.fda.gov/AnimalVeterinary/ScienceResearch/ucm247334.htm

From: Palmer, Lee Anne

Sent: Wednesday, August 1, 2018 8:16 AM

To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Reimschuessel, Renate

<Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah

<Sarah.Nemser@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Peloquin, Sarah.

<Sarah.Peloquin@fda.hhs.gov>

Cc: Rotstein, David <David.Rotstein@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>

Subject: RE: 800.267-FDA Case Investigation for B6 EON-359970

The one I've been following (behind the scenes) on FB is "Taurine-Deficient Dilated Cardiomyopathy" which is focused on the condition in Golden Retrievers (at least originally), but has expanded beyond the breed. They're working closely with Josh Stern at UC Davis. From a glance at the data, I assume it's the same group.

From: Hartogensis, Martine

Sent: Wednesday, August 1, 2018 8:13 AM

To: Reimschuessel, Renate < Renate. Reimschuessel@fda.hhs.gov >; Ceric, Olgica

< Olgica. Ceric@fda.hhs.gov>; Nemser, Sarah < Sarah. Nemser@fda.hhs.gov>; Jones, Jennifer L

<Jennifer.Jones@fda.hhs.gov>; Peloquin, Sarah <Sarah.Peloquin@fda.hhs.gov>

Cc: Rotstein, David <David.Rotstein@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Palmer, Lee

Anne <LeeAnne.Palmer@fda.hhs.gov>

Subject: RE: 800.267-FDA Case Investigation for B6 EON-359970

Thanks Renate! Is this a Golden Retriever group? A lot of Golden and Golden mixes.

The owner sent you the spreadsheet or is it from CVCA/UC Davis?

Martine

From: Reimschuessel, Renate

Sent: Wednesday, August 01, 2018 8:01 AM

To: Ceric, Olgica < Olgica. Ceric@fda.hhs.gov >; Nemser, Sarah < Sarah. Nemser@fda.hhs.gov >; Jones, Jennifer

L < Jennifer. Jones@fda.hhs.gov>; Peloquin, Sarah < Sarah. Peloquin@fda.hhs.gov>

Cc: Rotstein, David <David.Rotstein@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Palmer, Lee

Anne < <u>LeeAnne.Palmer@fda.hhs.gov</u> >; Hartogensis, Martine < <u>Martine.Hartogensis@fda.hhs.gov</u> > Subject: FW: 800.267-FDA Case Investigation for B6 EON-359970
Dear folks One of the owners who reported a case mentioned to me that there is a facebook page which has information crowd-sourced from owners regarding grain-free products and DCM. She offered to send it to me and I said sure send it but I recommended she advise owners to submit reports to FDA.
This morning I received the file, and again suggested she advise owners to submit to FDA through the portal.
I'm sharing the file for your additional information. rr
Renate Reimschuessel V.M.D. Ph.D. Director Vet-LIRN Phone 1-240-402-5404 Fax 301-210-4685 http://www.fda.gov/AnimalVeterinary/ScienceResearch/ucm247334.htm
From: Reimschuessel, Renate Sent: Wednesday, August 1, 2018 7:54 AM To:
Subject: RE: 800.267-FDA Case Investigation for B6 EON-359970
Thank you for the information.
Again – please urge the users of the Facebook page to report their individual cases to FDA directly.
A consumer complaint can be submitted through the Safety Reporting Portal: https://www.safetyreporting.hhs.gov
Best Regards,
Renate Reimschuessel V.M.D. Ph.D. Director Vet-LIRN Phone 1-240-402-5404 Fax 301-210-4685 http://www.fda.gov/AnimalVeterinary/ScienceResearch/ucm247334.htm
From: B6 Sent: Tuesday, July 31, 2018 10:57 PM To: Reimschuessel, Renate < <u>Renate.Reimschuessel@fda.hhs.gov</u> > Subject: Re: 800.267-FDA Case Investigation for B6 EON-359970
Hi Dr. Reimschuessel,
Please find the attached Diet and Taurine Table Spreadsheet. B6 is an B6 and is aware this document is being emailed to you. Out of respect for the privacy of the dog owners, I've crossed out their names.
All of the information on these pages was supplied by the individual dog owners. It is sorted by dog food brand

All of the information on these pages was supplied by the individual dog owners. It is sorted by dog food brand in an effort to help members easily see which foods may be a problem and which foods produce good taurine levels. The areas highlighted in yellow represent low taurine results and the brand and formula fed at the time the blood work was performed. Not all dogs diagnosed with low taurine had echocardiograms performed, but the results are noted for those that did.

Please let me know when you receive this.

Thank you,

В6

Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group From: (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo> Reimschuessel, Renate; Palmer, Lee Anne; Hartogensis, Martine; Ceric, Olgica; Nemser, Sarah; To: Peloguin, Sarah CC: Rotstein, David; Carey, Lauren Sent: 8/1/2018 12:25:18 PM RE: 800.267-FDA Case Investigation for **B6** EON-359970 Subject: Yes-Josh was in a group we spoke with. He mentioned his cases all involved Acana. After speaking w/ Andrea **B5** Fascetti at Davis, Jennifer Jones, DVM Veterinary Medical Officer Tel: 240-402-5421 æ∆ U.S. FOOD & DRUG From: Reimschuessel. Renate Sent: Wednesday, August 01, 2018 8:20 AM To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Peloguin, Sarah <Sarah.Peloquin@fda.hhs.gov> Cc: Rotstein, David <David.Rotstein@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov> Subject: RE: 800.267-FDA Case Investigation for **B6** EON-359970 This was sent to me by the owner of a dog that did report to FDA and has been sending me the dog's medical records. She mentioned the FB page. It looks like it might be the one Lee Anne has looked at since most of the bloodwork is from Davis. Jen – has Josh Stern been in the group that we spoke with? Renate Reimschuessel V.M.D. Ph.D. Director Vet-LIRN Phone 1-240-402-5404 Fax 301-210-4685 http://www.fda.gov/AnimalVeterinary/ScienceResearch/ucm247334.htm From: Palmer, Lee Anne

Sent: Wednesday, August 1, 2018 8:16 AM

To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Reimschuessel, Renate

< Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica < Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah

<<u>Sarah.Nemser@fda.hhs.gov</u>>; Jones, Jennifer L <<u>Jennifer.Jones@fda.hhs.gov</u>>; Peloquin, Sarah

<Sarah.Peloquin@fda.hhs.gov>

Cc: Rotstein, David < David.Rotstein@fda.hhs.gov >; Carey, Lauren < Lauren.Carey@fda.hhs.gov >

Subject: RE: 800.267-FDA Case Investigation for B6 EON-359970

The one I've been following (behind the scenes) on FB is "Taurine-Deficient Dilated Cardiomyopathy" which is focused on the condition in Golden Retrievers (at least originally), but has expanded beyond the breed. They're working closely with Josh Stern at UC Davis. From a glance at the data, I assume it's the same group.

From: Hartogensis, Martine

Sent: Wednesday, August 1, 2018 8:13 AM

To: Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica

<Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Jones, Jennifer L

<Jennifer.Jones@fda.hhs.gov>; Peloquin, Sarah <Sarah.Peloquin@fda.hhs.gov>

Cc: Rotstein, David <Olavid.Rotstein@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Subject: RE: 800.267-FDA Case Investigation for B6 EON-359970

Thanks Renate! Is this a Golden Retriever group? A lot of Golden and Golden mixes.

The owner sent you the spreadsheet or is it from CVCA/UC Davis?

Martine

From: Reimschuessel, Renate

Sent: Wednesday, August 01, 2018 8:01 AM

To: Ceric, Olgica <<u>Olgica.Ceric@fda.hhs.gov</u>>; Nemser, Sarah <<u>Sarah.Nemser@fda.hhs.gov</u>>; Jones, Jennifer L <<u>Jennifer.Jones@fda.hhs.gov</u>>; Peloquin, Sarah <<u>Sarah.Peloquin@fda.hhs.gov</u>>

Cc: Rotstein, David <<u>David.Rotstein@fda.hhs.gov</u>>; Carey, Lauren <<u>Lauren.Carey@fda.hhs.gov</u>>; Palmer, Lee Anne <<u>LeeAnne.Palmer@fda.hhs.gov</u>>; Hartogensis_Martine_Martine.Hartogensis@fda.hhs.gov>

Subject: FW: 800.267-FDA Case Investigation for **B6** r EON-359970

Dear folks

One of the owners who reported a case mentioned to me that there is a facebook page which has information crowd-sourced from owners regarding grain-free products and DCM. She offered to send it to me and I said sure send it but I recommended she advise owners to submit reports to FDA.

This morning I received the file, and again suggested she advise owners to submit to FDA through the portal.

I'm sharing the file for your additional information.

Renate Reimschuessel V.M.D. Ph.D. Director Vet-LIRN

Phone 1-240-402-5404

Fax 301-210-4685

http://www.fda.gov/AnimalVeterinary/ScienceResearch/ucm247334.htm

From: Reimschuessel, Renate

Sent: Wednesday, August 1, 2018 7:54 AM To: B6

Subject: RE: 800.267-FDA Case Investigation for B6 EON-359970

Thank you for the information.

Again – please urge the users of the Facebook page to report their individual cases to FDA directly.

A consumer complaint can be submitted through the Safety Reporting Portal: https://www.safetyreporting.hhs.gov

Best Regards,

Renate Reimschuessel V.M.D. Ph.D. Director Vet-LIRN

Phone 1-240-402-5404

Fax 301-210-4685

http://www.fda.gov/AnimalVeterinary/ScienceResearch/ucm247334.htm

From: B6 Sent: Tuesday, July 31, 2018 10:57 PM To: Reimschuessel, Renate < Renate.Reimschuessel@fda.hhs.gov > Subject: Re: 800.267-FDA Case Investigation for B6 EON-359970
Hi Dr. Reimschuessel,
Please find the attached Diet and Taurine Table Spreadsheet. B6 is an B6 and is aware this document is being emailed to you. Out of respect for the privacy of the dog owners, I've crossed out their names.
All of the information on these pages was supplied by the individual dog owners. It is sorted by dog food brand in an effort to help members easily see which foods may be a problem and which foods produce good taurine levels. The areas highlighted in yellow represent low taurine results and the brand and formula fed at the time the blood work was performed. Not all dogs diagnosed with low taurine had echocardiograms performed, but the results are noted for those that did.
Please let me know when you receive this.
Thank you,
B6

	ExchangeLabs/ou=Exchange Administr /cn=Recipients/cn=0f6ca12eaa9348959	
'Daroy Adin'	·	
B6		
1/30/2019 4:37:05 PM		
RE: Sample?		
words. {	B6	I apologize for the
-	need a complaint submitted through th	ne Safety Reporting Portal found
as there also a full necrops you submit. you have questions.		
cer		
Jennifer.Jones@fda.hhs.gc	ov>	
B6		
ell - not sure how the partia	al government shutdown is impacting y	our area specifically?
ould hang on to this in a -80 Ignosed in April 2018 and w grain based Royal canin di nted in September 2018 fol	0 freezer or send you the sample for tewas eating Castor and Pollux Organic G	esting? This is an almost 2yr Ml GF Small Breed. The owners tried as changed to Primal (raw and m Adult Gold Small breed, at each exam
	ested in the case. We'd just tyreporting.hhs.gov/ port, please send me the logast there also a full necrops you submit. you have questions. our help, icer edin@ncsu.edu> 25, 2019 5:01 PM Sennifer.Jones@fda.hhs.gov/ spending.sure how the partial able to collect fresh frozen ould hang on to this in a -8 agnosed in April 2018 and well and the collect of the collect	B6 1/30/2019 4:37:05 PM RE: Sample? words. B6 ested in the case. We'd just need a complaint submitted through the tyreporting.hhs.gov/ sport, please send me the ICSR number (confirmation of report sure the last a full necropsy report with medical records you could you submit. you have questions. bur help, dicer addin@ncsu.edu> 25, 2019 5:01 PM SJennifer.Jones@fda.hhs.gov>

From:	B6		
To:	Jones, Jennifer L;	B6	ADIN,DARCY BRITTAIN
Sent:	1/31/2019 4:47:01 PM	1	
Subject:	Fwd: Safety Report ID	252600 Subm	nission Confirmation
Hi Jennifer, Here is the Safety B6	Report Confirmation.	Please conta	ct me if you need any additional information.
Forwarded	-		
	etyreporting@hhs.gov>		
Date: Thu, Jan 31, 2			
Subject: Safety Rep	ort ID 252600 Submission	on Confirmati	on
To: ₹ B6			

Your initial Pet Food Safety Report, ID 252600, was successfully submitted on 1/31/2019 11:24:47 AM EST to the FDA, and it was issued an Individual Case Safety Report Number (ICSR) of 2062004.

Thank you for using the Safety Reporting Portal.

Please do not reply to this message. Replies to this message are routed to an unmonitored mailbox. If you have questions please refer to the Portal's Contact Us page for further instructions.

From: To: CC: Sent: Subject:	Jones, Jennifer L B6 ADIN,DARCY BRITTAIN Peloquin, Sarah 2/1/2019 3:16:52 PM RE: 800.267-cc-212- Safety Report ID 252600 Submission Confirmation
	ng the report. to collect the frozen heart tissue. You'll reuse the box, package the sample, use the we provide, and call UPS for the pick-up. Please return ship the box to us on a Monday
***If for some reason w shutdown. *** Thank you again for yo Jen	ve are furloughed again mid-February, please do not ship during the government
Jennifer Jones, DVM Veterinary Medical Office Tel: 240-402-5421 DA U.S. FOOD & DRUG ADMINISTRATION	
Sent: Thursday, Janua To: Jones, Jennifer L < ADIN,DARCY BRITTAI	Jennifer.Jones@fda.hhs.gov> B6
Hi Jennifer, Here is the Safe additional inform B6	ty Report Confirmation. Please contact me if you need any mation.
Forwarded me From: < <u>noreply.safetyre</u> Date: Thu, Jan 31, 201 Su <u>bject: Safety Report</u> To B6	eporting@hhs.gov>

Your initial Pet Food Safety Report, ID 252600, was successfully submitted on 1/31/2019 11:24:47 AM EST to the FDA, and it was issued an Individual Case Safety Report Number (ICSR) of 2062004.

Thank you for using the Safety Reporting Portal.

Please do not reply to this message. Replies to this message are routed to an unmonitored mailbox. If you have questions please refer to the Portal's Contact Us page for further instructions.

From:	(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4C00C47AE2794134B2906D6B9252FCF6-
То:	RREIMSCH> Jones, Jennifer L; Nemser, Sarah
Sent:	B6 12:17:41 PM
Subject: Attachments:	FW: Nutritionally-mediated DCM case necropsy recommendations 800.267-Vet-LIRN Rapid Necropsy-DCM-v7.pdf
fyi	
Renate Reimschues Phone 1- 240-4	ssel V.M.D. Ph.D. Director Vet-LIRN
Fax 301-210-4	
From: Joshua A S	Stern <jstern@ucdavis.edu></jstern@ucdavis.edu>
Sent: Bo	6 10:39 PM
Cc: Reimschuess	el, Renate <renate.reimschuessel@fda.hhs.gov></renate.reimschuessel@fda.hhs.gov>
Subject: Nutrition	ally-mediated DCM case necropsy recommendations
future cases we ha carnation supplem	Ithough I wasn't on clinic I heard about B6 This is such a sad case. For what it is worth for we seen some dogs take 9-12months to show improvement after diet change and taurine + entation (regardless of measured taurine levels). I'm so glad to hear the owner had a positive sh this case wasn't ending this way for everyone!
you are abele to us they will pay necre	ly use the help with tissue samples. Please ensure that you report the case to the FDA and if se the attached protocol to obtain samples for them they would greatly appreciate it. I believe opsy costs and cover shipping for you. The person to contact (Renate Reimschuessel) at the his email. Your willingness to help us get to the bottom of this horrible disease is greatly
Best	
Josh	
	
Joshua Stern DVM F	PhD, DACVIM (Cardiology)
	···· , -···· , - ··· , - ···

Associate Professor & Chief of Service: Cardiology

Interim Small Animal Clinic Director Department of Medicine & Epidemiology University of California Davis; CCAH Room 258 (614) 390.1516 cell (530) 752.2475 office jstern@ucdavis.edu

Associate Editor - Journal of Veterinary Cardiology www.journals.elsevier.com/journal-of-veterinary-cardiology

Rapid necropsy for Vet-LIRN's Case Investigation into Canine Dilated Cardiomyopathy (DCM) 2018

Prior to Necropsy:

- 1. Contact Vet-LIRN if you think you have a case of DCM to request authorization for payment to conduct a necropsy.
- 2. Submit a pet food report through the FDA Safety Reporting Portal. (https://www.safetyreporting.hhs.gov)
- 3. Refrigerate the body if the necropsy can be done in 1 day, otherwise freeze the body.

Necropsy

- 4. Photograph any lesions place a tag with the dog's name in each picture.
- 5. Record any gross findings in detail
 - a. Describe location, number, size, color, and texture.
 - b. Photograph the heart in situ.
- 6. Sampling and **FIXING** (10% neutral buffered formalin, 10:1 NBF to tissue):
 - a. Heart Weigh it (remove clots first) place in NBF without cutting
 - b. Eye (#1, record OD or OS) inject with NBF, and place in NBF
 - c. Lungs Weigh lungs, then fix the perihilar region and caudo-dorsal
 - d. Muscles sample gastrocnemius and abdominal muscle, labelling each.
 - e. Organs sample:
 - i. Ileum
 - ii. Pancreas
 - iii. Liver
 - iv. Gall bladder
 - v. Spleen
 - vi. Kidney (1/2 of each)
 - vii. Adrenal
 - viii. Thyroid
 - f. Sample any tissues with gross lesions.
- 7. Sampling for FROZEN TISSUES
 - a. Eye (#2, record OD or OS)
 - b. Liver (4x4 cm section state size or weight)
 - c. Skeletal muscle-gastrocnemius and abdominal muscle
 - d. Kidney (1/2 of each)
 - e. Fat (abdominal)

If available:

- f. small intestinal contents and feces (for bile acids)
- g. Whole blood and/or Plasma
- h. Urine

Sample Shipping to Vet-LIRN:

- 8. Vet-LIRN will send you 2 boxes one for fixed samples, one for frozen samples.
 - a. The boxes will contain packaging instructions and a prepaid shipping label.
 - b. Vet-LIRN will need to know the *final weights* of both the collective frozen and fixed tissues, separately.
 - c. Call UPS to schedule box pick-up ONLY FOR Monday through Wednesday.

Reimbursement:

9. Submit an invoice (email or fax: 301-210-4685) for the necropsy charges.

Histopathology-to be done by FDA:

10. Vet-LIRN will send histopathology results to the veterinarian to share with the owner.

From:	B6
To:	Jones, Jennifer L
Sent:	B6 4:32:34 PM
Subject:	Necropsy authorization
Dear Dr. Jone	
	ge on your number this morning but figured I would also follow up with an email. Dr. Josh Stern
	contact information – I reached out to both Renate and Sarah but both appear out of the office
	ve a nutrition mediated DCM case, diagnosed at UC Davis that will be euthanized B6
B6 is in CHF	and isn't responding to treatment. She is a 3.5yrold, FS, Golden Retriever. The owner is willing to
	dy/tissu <u>es towards res</u> earch on this condition. Please give me a call at your earliest convenience
	xt steps B6
Sincerely,	
B6	
	B6
	B6
Tel B6	5
гах	
<u> </u>	
1 Like us on	The state of the Shall s
₩/ Faceboo	k [Find us on Yelp 🚱]

From: Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo> To: CC: 'Reimschuessel, Renate (Renate.Reimschuessel@fda.hhs.gov)'; Peloquin, Sarah **B6** 5:40:43 PM Sent: 800.267-cc-295-RE: Necropsy authorization Subject: 02-Vet-LIRN-NetworkProceduresVets-12.22.2015.pdf; 03-Vet-LIRN-Network Attachments: ProceduresOwners-12.22.2015.pdf Good afternoon B6 Thank you for contacting us about your case. As we discussed on the phone, for me to send you a box to collect the samples, I'll need an official report. You can mention in the report, that I recommended you submit a complaint. Can you please submit a consumer complaint here? https://www.safetyreporting.hhs.gov/ • Please send me the ICSR number (confirmation code) from the report. We will send you 2 boxes with the materials to collect the fixed and frozen samples, including jars with formalin. You will reuse the boxes we send and package the samples per the instructions in the box. • Please send me an estimate for the necropsy. After the necropsy is complete, we will call back with our VISA information to reimburse your hospital. • After the necropsy is complete, please send me the approximate weight of the following individual groups: Fixed tissues in the jars o Frozen tissues We will use this information to make prepaid shipping labels for you. You'll affix the prepaid shipping label to the box and call UPS for a pick-up on Monday-Wednesday. I attached a copy of our network procedures. They explain how Vet-LIRN operates and how veterinarians help with our case investigations. An owner friendly version is also attached. For more information, please also visit our open access article in JAVMA that explains the FDA Animal Food Concern Reporting process. It's free and located here: https://avmajournals.avma.org/doi/pdf/10.2460 /javma.253.5.550 Thank you again, Jen

Jennifer Jones, DVM Veterinary Medical Officer

Tel: 240-402-5421



From:		В	В6		
Sent:	Tuesday,	86	12:33 PM		

To: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov>

Subject: Necropsy authorization

Dear Dr. Jones,

I left a message on your number this morning but figured I would also follow up with an email. Dr. Josh Stern gave us your contact information – I reached out to both Renate and Sarah but both appear out of the office today. We have a nutrition mediated DCM case, diagnosed at UC Davis that will be euthanized

B6 is in CHF and isn't responding to treatment. She is a 3.5yrold, FS, Golden Retriever. The owner is willing to submit the body/tissues towards research on this condition. Please give me a call at your earliest convenience

to discuss next steps
Sincerely,
B6

B6

B6

Tel: B6

Fax: B6

B6

Find us on Yelp



Network Procedures for Owners

The purpose of this Network Procedure is to help you, the owner, understand how the Veterinary Laboratory Investigation and Response Network (Vet-LIRN) Program Office conducts case investigations (follow up to consumer complaints).

The following items are explained below:

- General Introduction
- Billing
- Step by Step Process
- Types of Services and Tests

1. General Introduction:

1.1. What is the goal of the case investigation?

The goal of the case investigation is to determine if the product is causing your pet's illness. Our case investigation MAY NOT provide a definitive diagnosis for your pet's illness, although we may rule out several other potential reasons for your pet's illness.

1.2. What is the focus of a case investigation?

Most case investigations focus on diagnostic samples (such as blood, urine or tissue from the pet), although we occasionally request and test pet food samples.

1.3. What is my veterinarian's role during the case investigation?

Your veterinarian helps our investigation into FDA- regulated products by providing information about your pet's medical history and by obtaining any diagnostic samples like blood, urine or tissue.

1.4. What will Vet-LIRN ask of me during a case investigation?

We may ask that your veterinarian perform certain tests or services or provide diagnostic samples to FDA or a Vet-LIRN cooperating laboratory.



1.5. Will Vet-LIRN pay for tests or services requested?

Yes, we will pay veterinarians or laboratories *for tests or services requested by Vet-LIRN* and approved through our government purchasing system. We cannot, however, reimburse owners for tests already performed or not specifically requested by Vet-LIRN. We recommend that you discuss with your veterinarian which tests and services will be billed to you and which will be covered by Vet-LIRN. For instance, Vet-LIRN may request that your veterinarian perform a urinalysis on your pet while he or she is hospitalized. Vet-LIRN will pay for the collection and testing of the sample, but would not cover the cost of your pet's stay in the hospital.

1.6. Is the information received in the consumer complaint confidential?

Generally, the information received in the consumer complaint is not kept confidential. In most cases, only protected personal information (such as names and addresses) is withheld in an effort to prevent the complaint from being traced back to the individual who submitted it.

2. Billing:

2.1. Will Vet-LIRN pay for bills related to the case investigation?

Vet-LIRN will cover the cost of services and testing that we specifically request. You should understand that Vet-LIRN *CANNOT* reimburse owners for any veterinary bills. Services *MUST* be pre-authorized and paid directly to the veterinarian.

2.2. Will Vet-LIRN pay for testing that was not requested by Vet-LIRN?

No, we will only pay for testing that we request and authorize.

2.3. Will Vet-LIRN pay for treatments or private cremation?

No, we cannot pay for treatment or cremation.



2.4. If I allow my veterinarian to submit my pet's body for testing, will I be able to have back his or her remains?

Each Vet-LIRN member laboratory has its own procedures for handling remains. Some Vet-LIRN member laboratories offer private cremation services for a fee payable directly to the laboratory. We advise you to discuss directly with the member laboratory the possibilities and costs for obtaining your pet's remains after examination are complete.

3. Step by Step Process:

Vet-LIRN will do the following during a case investigation:

- 3.1. Assign a case number which MUST be included in all correspondences
- 3.2. Discuss the case with you and your veterinarian
- 3.3. Request medical records from your veterinarian
- 3.4. Coordinate with your veterinarian and you to obtain and submit samples for testing
- 3.5. Provide results to your veterinarian who will discuss the results with you.

Vet-LIRN requests that:

- 3.6. Any follow-up veterinary visits related to the investigation are reported to Vet-LIRN
- 3.7. Additional laboratory reports are reported to Vet-LIRN by your veterinarian.

4. Types of Services and Tests:

4.1. What may a veterinary examination include once the case investigation is started?

A veterinary examination may include:

- an office visit and physical examination to assess your animals current health
- collection of clinical samples from your animal (blood, urine, feces).

4.2. Will your animal be tested more than once?



It is possible that Vet-LIRN may request additional tests or examinations depending on results from initial testing.

4.3. Will Vet-LIRN need to conduct a necropsy in the event of an animal death?

Yes, if you are willing, we may request that your veterinarian or another Vet-LIRN cooperating laboratory to conduct a necropsy to collect samples for testing. The samples collected may be tested right away or may be held for future testing or archiving. If the veterinarian completes the necropsy then the remains will be handled according the veterinarians normal procedures. If a Vet-LIRN cooperative laboratory completes the necropsy the remains are usually disposed of by that laboratory. Vet-LIRN cannot pay for private cremation. You are welcome to discuss normal procedures with the laboratory.

4.4. Will Vet-LIRN ask for a food sample?

Our main focus is on testing diagnostic tissue or fluid samples from the animal, but we may need to test the food. Please hold all food samples once the consumer complaint is submitted. If needed, we will make arrangements to collect the food.

4.5. What are some general tests that Vet-LIRN may request?

General tests that we may request include, but are not limited to:

- Hematology
- Microbial cultures
- Urinalysis
- Fecal examination
- Necropsy/Histology/Toxicology

4.6. Will I get results from Vet-LIRN requested tests?

Results of testing on your animal's diagnostic tissue or fluid samples will be forwarded to your veterinarian who will be asked to share the results with you.

Nemser, Sarah </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP From: (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5FC1EB8D2F5944ECAA02F40E225C2054-SNEMSER> To: Jones, Jennifer L B6 11:44:34 PM Sent: Subject: FW: Necropsy authorization Forwarding this one on - DCM Sarah Nemser M.S. Vet-LIRN Network Coordinator tel: <u>240-402-0892</u> fax: 301-210-4685 sarah.nemser@fda.hhs.gov **B6** From: 12:01 PM Sent: To: Nemser, Sarah <Sarah.Nemser@fda.hhs.gov> Subject: Necropsy authorization Hi Sarah, I left a message on your number this morning but figured I would also follow up with an email. Dr. Josh Stern gave us your contact information. We have a nutrition mediated DCM case, diagnosed at UC Davis that will be euthanized this afternoon. B6 is in CHF and isn't responding to treatment. She is a 3.5yrold, FS, Golden Retriever. The owner is willing to submit the body/tissues towards research on this condition. **B6** is out of the office today. Please give me a call at your earliest convenience to discuss next steps **B6** Sincerely, ____B6

Find us on Yelp &

Facebook

Cummings Veterinary Medical Center

Foster Hospital for Small Animals

55 Willard Street North Grafton, MA 01536 (508) 839-5395

All	Medical	Records

Patient: **B6**

Breed: English Bulldog DOB: **B6**

Species: Canine Sex: Female (Spayed)

Home Phone:

Cell Phone:

B6

Referring In	nformation
--------------	------------

Client: Patient: B6

Initial Complaint:

Emergency

Client:

Address:

SOAP Text B6 9:31PM - B6

Subjective

NEW VISIT (ER)

Doctor: B6

Student: ---

Presenting complaint: Tachypnea

Referral visit? Yes

Diagnostics completed prior to visit-- radiographs, 2 view thorax, in ER email

HISTORY:

Signalment: 8 yo SF English Bulldog

Current history:

Earlier this afternoon, found her laying and trembling with shallow and rapid breathing. Owner also noticed that she had a hacking non productive cough. Has not appreciated it before today. Went to rDVM where radiographs were performed. No history of heart or pulmonary disease. No recent vomiting or diarrhea. Has recently been doing well at home with no concerns.

Prior medical history: anxiety, otherwise healthy

Current medications: B6 2mL once daily in PM, had tonight

Diet: Core Wellness, mix of wet and dry, grain free diet

Vaccination status/flea & tick preventative use: UTD

Travel history: unknown

EXAM: performed with flow by O2

B6

ASSESSMENT:

B6

PLAN:

Diagnostics:

B6

Treatments:

B6

Diagnostics completed:

B6

Diagnostics pending:

CBC

Client: Patient:	B6								
Chemistry		<u> </u>						_	
BNP									
Client con	nmunication:								· _i
				B6					
Deposit &	estimate sta	tus B6							
Resuscitat	tion code (if a	dmitting to I	_{СU)} В6]					
SOAP app	roved (DVM t	o sign):	B6 DVI	М					
SOAP Tex	xt B6	3:38AM	В6						
SIGNALM	ENT: 8yo FS E	nglish Bulldo	g g						
PRESENTI	NG COMPLAII	NT: dyspnea							
she had a performed home with Prior med Current m Diet: Core On preser O2 on Una	hacking non d. No history hacking history lical history ledications: Wellness, mintation, P was asyn overnight tachycardia,	oroductive confinent or position. Box of wet and dyspneic and with blood but excellen	ough. Has not a ulmonary disea 6 B6 dry, grain free d tachycardic.	e diet rDVM rads unab r CBC/Chem and	fore today. omiting or di	Went to rD\ iarrhea. Has essed as CHI	M where rarecently be	adiographs wer en doing well a onia, so placed	e it in
	B6) 							
OBJECTIV	E:			B (6				

Client: B6	
RECTAL: NP	
ASSESSMENT:	
A1: B6	
PLAN: P1: P2: P3: P4: P5: P6: P7:	
Diagnostics completed:	
B6	
B6	9
Cardio Consult: DCM, suspect early CHF - add B6 q8	
Diagnostics pending: BNP Troponin Taurine	
Deposit & estimate status B6	
Resuscitation code (if admitting to ICU) B6	
B6 , DVM (ECC Resident) SOAP Text B6 7:43AM - Clinician, Unassigned FHSA	
SOAT TEAT [
HISTORY:	

B6 is an B6 yo FS English Bulldog that presented on B6 for sudden onset dyspnea. O found her laying and trembling with shallow and rapid breathing. Owner also noticed that she had a hacking non productive cough. Has not appreciated it before. Went to rDVM where radiographs were performed. No history of heart or pulmonary disease. No recent vomiting or diarrhea, hasbeen doing well at home with no concerns. Was on Core Wellness dry and wet grain

Client: B6		
free diet.		
On presentation to ER, P was dyspneic and tach placed in B6 on B6 overnight with bloodwo overnight on B6 with persistent tachycardia, but states assess due to dyspnea and conformation, but states	ork pulled for CBC/Chem and nt-p but excellent appetite and good s	oroBNP. Minimal improvement
Overnight, P had normal vitals, with RR 24-36 w		_
3:45am after a walk was trembling and anxious this morning. Has received B6	in the cage, was given B6	and calmed after. Excellent appetite
Subjective		
B6		
<u>Objective</u>		
H/L: No murmur ausculted although very difficu either. Jugular pulse bottom 1/3 of the neck. Fe bilateral		
Diagnostics completed:		
	36	
	B6	
- Mild cardiomegaly and left atrial enlargement		ation. Echocardiography can be
considered (to evaluate mitral valve and to eval	luate for pulmonary hypertension	ı).
B6		
Cardio Consult: DCM, suspect early CHF - ad	B6 8	i

Diagnostics pending:

BNP

Client: Patient: B6
Troponin Taurine
Assessment (A)
B6
Plan (P)
B6
SOAP completed by: B6 SOAP reviewed by: B6 DVM
SOAP reviewed by: B6 DVM
Addendum:
B6
SOAP Text B6 7:28AM B6
HISTORY: B6 is an B6 of FS English Bulldog that presented on B6 for sudden onset B6 Of found her laying and trembling with shallow and rapid breathing. Owner also noticed that she had a hacking non productive cough. Has not appreciated it before. Went to rDVM where radiographs were performed. No history of heart or pulmonary disease. No recent vomiting or diarrhea, hasbeen doing well at home with no concerns. Was on Core Wellness dry and wet grain free diet.
On presentation to ER, P was dyspneic and tachycardic. rDVM rads unable to be assessed as CHF vs. pneumonia, so placed in O2 on B6 overnight with bloodwork pulled for CBC/Chem and nt-proBNP. Minimal improvement overnight on B6 with persistent tachycardia, but excellent appetite and good spirits. Cardio consult was difficult to assess due to dyspnea and conformation, but showed DCM and suspect CHF.
Since yesterday P has been out of oxygen, increased B6 to TID, and restarted B6. Overnight, P had normal vitals, with RR 28-32 with no effort, but panting earlier in the night. Walks well outside, and still has excellent appetite.
Subjective
B6
<u>Objective</u>
B6

Client:
Potient.

B6

H/L: No murmur ausculted although very difficult auscultation due to the constant panting. No obvious arrhythmia either. Jugular pulse bottom 1/3 of the neck. Femoral pulses strong and synchronized with heart beat. Normal BVS bilateral

B6

Diagnostics completed:

B6

- Mild cardiomegaly and left atrial enlargement without evidence of decompensation. Echocardiography can be considered (to evaluate mitral valve and to evaluate for pulmonary hypertension).

B6

Cardio Consult: DCM, suspect early CHF - add pimobendan and Lasix q8

B6

Diagnostics pending:

Troponin

Taurine

Assessment (A)

A1: DCM and suspect early CHF vs less likely pneumonia

Plan (P)

B6

Client: B6 Patient:
SOAP completed by: B6 SOAP reviewed by: B6 DVM
Addendum:
B6 Disposition/Recommendations

Cummings Veterinary Medical Center

AT TUFTS UNIVERSITY

Lab Results Report

stringsoft

Client:	В6	
Veterinarian:		
Patient ID:	437321	
Visit ID:		

Foster Hospital for Small Animals

55 Willard Street North Grafton, MA 01536 (508) 839-5395

Patient:	B6
Species:	Canine
Breed:	English Bulldog
Sex:	Female (Spayed)
Age:	B6 Years Old

CBC, Comprehensive, Sm Animal	В6	11:21:12 PM	Accession ID: B6	
Test	Results		Reference Range	Units
WBC (ADVIA)			4.4 - 15.1	K/uL
RBC(ADVIA)			5.8 - 8.5	M/uL
HGB(ADVIA)			13.3 - 20.5	g/dL
HCT(ADVIA)			39 - 55	%
MCV(ADVIA)			64.5 - 77.5	fL
MCH(ADVIA)			21.3 - 25.9	pg
MCHC(ADVIA)	DC		31.9 - 34.3	g/dL
RDW (ADVIA)	B6		11.9 - 15.2	
PLT(ADVIA)			173 - 486	K/uL
MPV (ADVIA)			8.29 - 13.2	fl
PLTCRT			0.129 - 0.403	%
RETIC(ADVIA)			0.2 - 1.6	%
RETICS (ABS) ADVIA			14.7 - 113.7	K/uI.
CBC, Comprehensive, Sm Animal		19 11:21:26 PM	Accession ID: B6	
Test	Results		Reference Range	Units
GLUCOSE			67 - 135	mg/dL
UREA			8 - 30	mg/dL
CREATININE			0.6 - 2	mg/dL
PHOSPHORUS	B6		2.6 - 7.2	mg/dL
CALCIUM2			9.4 - 11.3	mg/dL
MAGNESIUM 2+			1.8 - 3	mEq/L
		10/47	B6	

Printed Monday, February 25, 2019

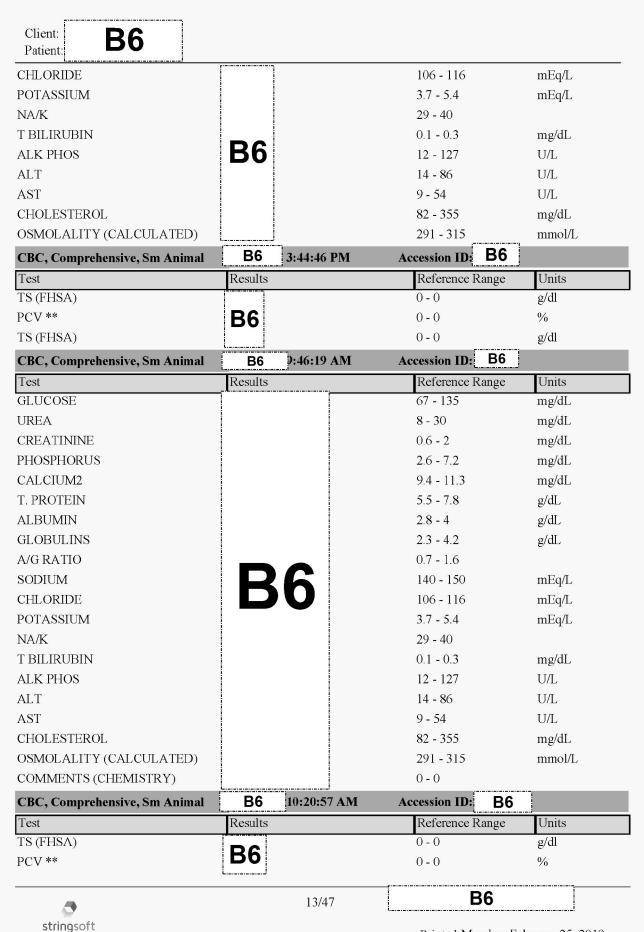
Page 10/47

⊘		11/47	B6	
				
(POC)			3.6 - 4.8	mmol/L
(A (POC)	B6		140 - 154	mmol/L
B (POC)	DC		12.6 - 16	g/dL
CT (POC)			38 - 48	%
O2%	Tesuits		94 - 100	%
BC, Comprehensive, Sm Animal est	B6 Results	11:22:25 PM	Accession ID: BO	Units
	- B4	11.22.25 DM	D	3
POIKILOCYTOSIS			0 - 0	
RBC MORPHOLOGY			0 - 0	
Occasional reactive lymphocytes				
VBC MORPHOLOGY			0 - 0	
MONOS (ABS)ADVIA			0.1 - 1.5	K/uL
YMPHS (ABS)ADVIA			1 - 4.8	K/uL
EGS (AB)ADVIA			2.8 - 11.5	K/ul
MONOS%			1 - 15	%
YMPHS%			7 - 47	%
EGS%	1		43 - 86	%
Test	Results		Reference Range	i Units
CBC, Comprehensive, Sm Animal	B6	11:21:08 PM	Accession ID: B6	
COMMENTS (CHEMISTRY)			0 - 0	
OSMOLALITY (CALCULATED)			291 - 315	mmol/L
MYLASE			409 - 1250	U/L
RIGLYCERIDES			30 - 338	mg/dl
HOLESTEROL			82 - 355	mg/dL
rK			22 - 422	U/L
AST			9 - 54	U/L
LT	<u>.</u>		14 - 86	U/L
GGT			0 - 10	U/L
LK PHOS		V	12 - 127	U/L
BILIRUBIN		36	0.1 - 0.3	mg/dL
JA/K			29 - 40	
AGAP	<u>.</u>		8 - 19	
CO2 (BICARB)			14 - 28	mEq/L
OTASSIUM			3.7 - 5.4	mEq/L
CHLORIDE			106 - 116	mEq/L
ODIUM			140 - 150	mEq/L
/G RATIO			0.7 - 1.6	
GLOBULINS			2.3 - 4.2	g/dL
LBUMIN			2.8 - 4	g/dL
. PROTEIN	•		5.5 - 7.8	g/dL

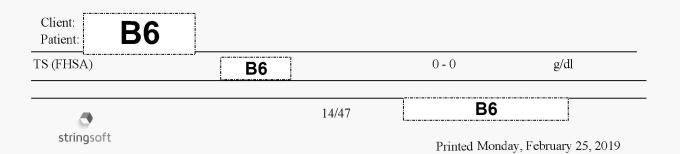
Page 11/47

Client: B6				
CL(POC)	ſ		109 - 120	mmol/L
CA (ionized)			1.17 - 1.38	mmol/L
MG (POC)			0.1 - 0.4	mmol/L
GLUCOSE (POC)			80 - 120	mg/dL
LACTATE			0 - 2	mmol/L
BUN (POC)			12 - 28	mg/dL
CREAT (POC)			0.2 - 2.1	mg/dL
ΓCO2 (POC)			0 - 0	mmol/L
nCA			0 - 0	mmol/L
nMG			0 - 0	mmol/L
GAP			0 - 0	mmol/L
CA/MG	B	6	0 - 0	mol/mol
BEecf	U	U	0-0	mmol/L
BEb			0 - 0	mmol/L
A.			0 - 0	mmHg
NOVA SAMPLE			0 - 0	шштд
FiO2			0 - 0	%
PCO2			36 - 44	mmHg
202			80 - 100	-
			7.337 - 7.467	mmHg
PH PGO2				
PCO2			36 - 44	mmHg
202			80 - 100	mmHg
HCO3	L	i	18 - 24	mmol/L
CBC, Comprehensive, Sm Animal	B6	11:28:40 PM	Accession ID: B6	Tr. :
Fest (FLICA)	Results		Reference Range	Units
rs (fhsa)	DG		0 - 0	g/dl
PCV **	B6		0 - 0	%
TS (FHSA)	<u>Li</u>	<u>-</u>	0 - 0	g/dl
CBC, Comprehensive, Sm Animal	B6	1:43:18 PM	Accession ID: B6	<u>.</u>
Test	Results		Reference Range	Units
GLUCOSE			67 - 135	mg/dL
JREA			8 - 30	mg/dL
CREATININE			0.6 - 2	mg/dL
PHOSPHORUS			2.6 - 7.2	mg/dL
CALCIUM2	B6		9.4 - 11.3	mg/dL
Γ. PROTEIN	DU		5.5 - 7.8	g/dL
ALBUMIN			2.8 - 4	g/dL
GLOBULINS			2.3 - 4.2	g/dL
A/G RATIO			0.7 - 1.6	
SODIUM			140 - 150	mEq/L
	i	-)		

Page 12/47



Printed Monday, February 25, 2019



Vitals Results

	<u>'</u>		
	6:41:14 PM	Heart Rate (/min)	
	6:41:15 PM	Respiratory Rate	
	6:41:16 PM	Temperature (F)	
	6:41:17 PM	Weight (kg)	
	11:17:43 PM	Heart Rate (/min)	
	11:17:51 PM	Respiratory Rate	
	11:22:41 PM	Notes	
	11:26:08 PM	FiO2 (%)	
	1:03:01 AM	Respiratory Rate	
	2:54:19 AM	Catheter Assessment	
	2:56:22 AM	Heart Rate (/min)	
	2:56:33 AM	FiO2 (%)	
	2:57:15 AM	Respiratory Rate	
	5:07:52 AM	Respiratory Rate	
	7:34:37 AM	Eliminations	
	7.25.50 414	11.00 (11.)	
B6	7:35:59 AM	FiO2 (%)	B6
DU	7:37:34 AM	Temperature (F)	
	7:37:44 AM	Amount eaten	
	7:46:29 AM	Respiratory Rate	
	7:46:58 AM	Heart Rate (/min)	
	7:47:06 AM	Catheter Assessment	
	9:13:53 AM	Weight (kg)	
	9:14:50 AM	Respiratory Rate	
	11:03:18 AM	FiO2 (%)	
	11:03:33 AM	Catheter Assessment	
	11:03:43 AM	Heart Rate (/min)	
	11:03:52 AM	Respiratory Rate	
	12:50:07 PM	Lasix treatment note	
	1:10:13 PM	Respiratory Rate	
	1:10:22 PM	Eliminations	
	3:18:03 PM	Catheter Assessment	
	3:18:20 PM	FiO2 (%)	
	3:18:55 PM	Respiratory Rate	
	j	1	LJ

Page 14/47

Vitals Results

	3:20:08 PM	Heart Rate (/min)
	4:46:44 PM	Amount eaten
	5:41:52 PM	Respiratory Rate
	7:04:34 PM	FiO2 (%)
	7:04:58 PM	Catheter Assessment
	7:06:54 PM	Heart Rate (/min)
	7:07:03 PM	Temperature (F)
	7:34:10 PM	Weight (kg)
	7:34:17 PM	Eliminations
	7:45:53 PM	Lasix treatment note
	7:46:17 PM	Respiratory Rate
	8:55:18 PM	Nursing note
	8:55:56 PM	Eliminations
	9:53:33 PM	Respiratory Rate
	11:31:43 PM	Catheter Assessment
	11:32:37 PM	Catheter Assessment
	11:34:10 PM	Heart Rate (/min)
	11:34:31 PM	Amount eaten
	11:49:45 PM	FiO2 (%)
	11:49:58 PM	Respiratory Rate
B6	1:55:25 AM	Respiratory Rate Respiratory Rate Lasiv treatment note
	3:35:30 AM	Lasix treatment note
	3:37:10 AM	Catheter Assessment
	3:45:10 AM	Heart Rate (/min)
	3:45:19 AM	Eliminations
	3:53:42 AM	FiO2 (%)
	3:53:53 AM	Respiratory Rate
	4:55:04 AM	Nursing note
	5:55:31 AM	Respiratory Rate
	6:11:40 AM	Nursing note
	7:19:26 AM	Respiratory Rate
	7:19:52 AM	FiO2 (%)
	7:20:14 AM	Temperature (F)
	7:20:30 AM	Heart Rate (/min)
	7:20:46 AM	Amount eaten
	7:33:19 AM	Weight (kg)
	7:33:27 AM	Eliminations
	8:01:36 AM	Catheter Assessment
	9:32:45 AM	Respiratory Rate
	3	· · · · · · · · · · · · · · · · · · ·

Client:
Patient:

Vitals Re	esui	TS
-----------	------	----

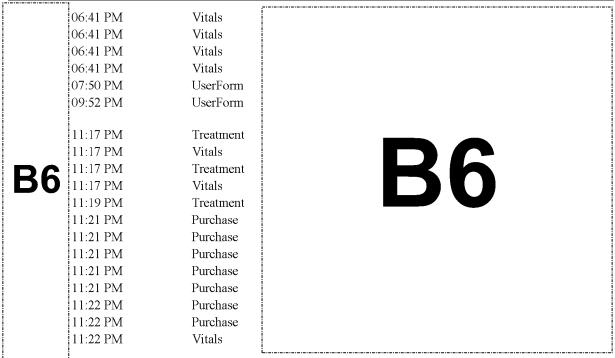
Vitais Results		
11:16:45 AM	FiO2 (%)	
12:41:34 PM	Catheter Assessment	
12:41:43 PM	Respiratory Rate	
12:42:33 PM	Heart Rate (/min)	
12:42:50 PM	Lasix treatment note	
1:52:56 PM	Heart Rate (/min)	
3:03:09 PM	FiO2 (%)	
3:03:22 PM	Respiratory Rate	
3:40:13 PM	Respiratory Rate	
3:55:45 PM	Eliminations	
5:04:09 PM	Respiratory Rate	
5:40:13 PM	Amount eaten	
5:52:28 PM	Eliminations	
5:54:07 PM	Respiratory Rate	
5:54:57 PM	Heart Rate (/min)	
5:55:05 PM	Catheter Assessment	
6:52:18 PM	Respiratory Rate	
7:17:27 PM	Eliminations	
7:45:11 PM	Respiratory Rate	
8:01:23 PM	Lasix treatment note	B6
B6 8:17:14 PM	Eliminations	
8:54:56 PM	Respiratory Rate	
9:32:19 PM	Heart Rate (/min)	
9:32:26 PM	Catheter Assessment	
9:32:35 PM	Eliminations	
9:43:25 PM	Respiratory Rate	
10:41:18 PM	Respiratory Rate	
11:18:27 PM	Eliminations	
11:18:49 PM	Weight (kg)	
11:42:42 PM	Eliminations	
11:53:16 PM	Respiratory Rate	
12:52:00 AM	Respiratory Rate	
1:22:40 AM	Heart Rate (/min)	
1:22:46 AM	Catheter Assessment	
1:45:25 AM	Respiratory Rate	
2:53:51 AM	Respiratory Rate	
3:34:16 AM	Lasix treatment note	
3:34:45 AM	Respiratory Rate	
3:43:47 AM	Eliminations	
4:50:44 AM	Respiratory Rate	
4:52:32 AM	Nursing note	

Client:
Patient:

Vitals Results

	5:25:32 AM	Catheter Assessment
	5:27:43 AM	Heart Rate (/min)
	5:27:50 AM	Respiratory Rate
	5:28:01 AM	Amount eaten
	6:42:00 AM	Respiratory Rate
	7:25:45 AM	Respiratory Rate
	7:26:00 AM	Weight (kg)
	7:26:12 AM	Eliminations
	8:56:03 AM	Respiratory Rate
_	9:47:19 AM	Respiratory Rate
B6	9:50:04 AM	Catheter Assessment
	9:50:22 AM	Catheter Assessment Heart Rate (/min)
	11:05:09 AM	Respiratory Rate
	12:00:28 PM	Respiratory Rate
	12:00:44 PM	Eliminations
	12:05:36 PM	Lasix treatment note
	12:55:52 PM	Respiratory Rate
	1:55:49 PM	Respiratory Rate
	3:12:43 PM	Respiratory Rate
	3:17:41 PM	Eliminations
	4:02:34 PM	Respiratory Rate
	_J	

Patient History



Page 17/47

Patient History

11:22 PM Purchase 11:25 PM Purchase 11:25 PM Treatment 11:26 PM Vitals 11:26 PM Treatment 11:28 PM Labwork 12:50 AM Treatment 12:53 AM Treatment	
11:22 PM Purchase 11:25 PM Treatment 11:26 PM Vitals 11:26 PM Treatment 11:28 PM Treatment 11:28 PM Labwork 12:50 AM Treatment 12:53 AM Treatment	
11:25 PM Treatment 11:26 PM Vitals 11:26 PM Treatment 11:28 PM Labwork 12:50 AM Treatment 12:53 AM Treatment	
11:26 PM Vitals 11:26 PM Treatment 11:28 PM Labwork 12:50 AM Treatment 12:53 AM Treatment	
11:26 PM Vitals 11:26 PM Treatment 11:28 PM Labwork 12:50 AM Treatment 12:53 AM Treatment	
11:26 PM Treatment 11:28 PM Labwork 12:50 AM Treatment 12:53 AM Treatment	
11:26 PM Treatment 11:28 PM Labwork 12:50 AM Treatment 12:53 AM Treatment	
11:28 PM Labwork 12:50 AM Treatment 12:53 AM Treatment	
12:50 AM Treatment 12:53 AM Treatment	
12:53 AM Treatment	
01:02 AM Treatment	
i i i i i i i i i i i i i i i i i i i	
01:03 AM Treatment	
01:03 AM Vitals	
02:54 AM Treatment	
02:54 AM Treatment	
02:54 AM Vitals	
02:56 AM Treatment	
02:56 AM Vitals	
02:56 AM Treatment	
02:56 AM Vitals	
02:57 AM Treatment	
02:57 AM Vitals	
B6 02:57 AM Vitals 05:07 AM Vitals 05:07 AM Vitals 07:24 AM Vitals	
05:07 AM Vitals	
07:34 AM Treatment	
07:34 AM Treatment	
07:34 AM Vitals	
07:35 AM Treatment	
07:35 AM Vitals	
07:37 AM Treatment	
07:37 AM Vitals	
07:37 AM Treatment	
07:37 AM Vitals	
07:46 AM Treatment	
07:46 AM Vitals	
07:46 AM Treatment	
07:46 AM Vitals	
07:47 AM Treatment	
07:47 AM Vitals	
08:13 AM UserForm	
08:19 AM Purchase	
08:32 AM UserForm	
08:39 AM Treatment	

Page 18/47

Patient History

Patient History		
08:45 AM	Prescription	
08:48 AM	Prescription	
09:13 AM	Treatment	
09:13 AM	Vitals	
09:14 AM	Treatment	
09:14 AM	Vitals	
09:34 AM	Purchase	
09:35 AM	Treatment	
11:03 AM	Treatment	
11:03 AM	Vitals	
11:03 AM	Treatment	
11:03 AM	Treatment	
11:03 AM	Vitals	
11:03 AM	Treatment	
11:03 AM	Vitals	
11:03 AM	Treatment	
11:03 AM	Vitals	
11:05 AM	Purchase	
11:39 AM	Treatment	
11:41 AM	Treatment	
12:50 PM	Vitals	
B6 12:52 PM	Treatment	B6
12:54 PM	Prescription	
01:01 PM	Deleted Reason	
01:10 PM	Treatment	
01:10 PM	Vitals	
01:10 PM	Treatment	
01:10 PM	Vitals	
01:10 PM	Treatment	
03:14 PM	Treatment	
03:17 PM	Treatment	
03.17 1141	Troumont	
03:18 PM	Treatment	
03:18 PM	Vitals	
03:18 PM	Treatment	
03:18 PM	Vitals	
03.18 PM	Treatment	
03.18 PM	Vitals	
03:18 I M 03:20 PM	Treatment	
03:20 PM	Vitals	
04:14 PM	UserForm	
OT.171 IVI		
04:46 PM	Treatment	

Page 19/47

P	atient	t I	Tis	to	rv

04:46 PM Vitals 05:14 PM Deleted Reason 05:14 PM Deleted Reason 05:15 PM Purchase 05:15 PM Purchase 05:41 PM Treatment 05:41 PM Vitals 07:04 PM Treatment 07:04 PM Vitals	
05:14 PM Deleted Reasor 05:15 PM Purchase 05:15 PM Purchase 05:15 PM Purchase 05:41 PM Treatment 05:41 PM Vitals 07:04 PM Vitals 07:04 PM Treatment 07:04 PM Treatment 07:04 PM Treatment 07:04 PM Treatment	
05:14 PM Deleted Reasor 05:15 PM Purchase 05:15 PM Purchase 05:41 PM Treatment 05:41 PM Vitals 07:04 PM Treatment 07:04 PM Vitals 07:04 PM Treatment 07:04 PM Treatment 07:04 PM Treatment 07:04 PM Treatment	
05:15 PM Purchase 05:15 PM Purchase 05:41 PM Treatment 05:41 PM Vitals 07:04 PM Treatment 07:04 PM Vitals 07:04 PM Treatment 07:04 PM Treatment 07:04 PM Treatment	
05:15 PM Purchase 05:41 PM Treatment 05:41 PM Vitals 07:04 PM Treatment 07:04 PM Vitals 07:04 PM Treatment 07:04 PM Treatment 07:04 PM Treatment	
05:15 PM Purchase 05:41 PM Treatment 05:41 PM Vitals 07:04 PM Treatment 07:04 PM Vitals 07:04 PM Treatment 07:04 PM Treatment 07:04 PM Treatment	
05:41 PM Treatment 05:41 PM Vitals 07:04 PM Treatment 07:04 PM Vitals 07:04 PM Treatment 07:04 PM Treatment 07:04 PM Treatment	
05:41 PM Vitals 07:04 PM Treatment 07:04 PM Vitals 07:04 PM Treatment 07:04 PM Treatment 07:04 PM Treatment	
07:04 PM Treatment 07:04 PM Vitals 07:04 PM Treatment 07:04 PM Treatment	
07:04 PM Vitals 07:04 PM Treatment 07:04 PM Treatment	
07:04 PM Treatment 07:04 PM Treatment	
07:04 PM Treatment 07:04 PM Treatment	
07:04 PM Treatment	
!	
07:06 PM Treatment	
07:06 PM Vitals	
07:07 PM Treatment	
07:07 PM Vitals	
07:34 PM Treatment	
07:34 PM Vitals	
07:34 PM Treatment	
07:34 PM Vitals	
DC 07:45 PM Vitals	
B6 07:45 PM Vitals 07:46 PM Treatment 07:46 PM Treatment	
07:46 PM Treatment	
07:46 PM Vitals	
08:31 PM Treatment	
08:55 PM Vitals	
08:55 PM Vitals	
09:53 PM Treatment	
09:53 PM Vitals	
11:07 PM Purchase	
11:07 PM Purchase 11:21 PM Treatment	
11:21 PM Treatment 11:31 PM Treatment	
11:31 PM Vitals	
11:31 PM Vitals 11:32 PM Treatment	
11:32 PM Vitals	
11:32 PM Treatment	
11:34 PM Treatment	
11:34 PM Vitals	
11:34 PM Treatment	
11:34 PM Vitals	
11:49 PM Treatment	
11.40 DM Treatment	
11:49 PM Treatment	

Page 20/47

	Patient	History
--	---------	---------

i 11.40 DM	Vitals	
11:49 PM 11:49 PM	Vitais Treatment	
11:49 PM	Vitals	
01:55 AM		
i	Treatment	
01:55 AM	Vitals	
03:05 AM	Treatment	
03:35 AM	Vitals	
03:37 AM	Treatment	
03:37 AM	Treatment	
03:37 AM	Vitals	
03:45 AM	Treatment	
03:45 AM	Vitals	
03:45 AM	Treatment	
03:45 AM	Vitals	
03:45 AM	Vitals	
03:45 AM	Vitals	
03:53 AM	Treatment	
03:53 AM	Vitals	
03:53 AM	Treatment	
03:53 AM	Vitals	
04:50 AM	Treatment	
04:55 AM	Treatment	
04:55 AM	Vitals	B6
B6 05:55 AM	Treatment	Bh
05:55 AM	Vitals	
06:03 AM	Treatment	
06:11 AM	Vitals	
07:19 AM	Treatment	
07:19 AM	Vitals	
07:19 AM	Treatment	CS
07:19 AM	Vitals	
07:20 AM	Treatment	
07:20 AM	Treatment	
07:20 AM	Vitals	
07:20 AM	Treatment	
07:20 AM	Vitals	
07:20 AM	Treatment	
07:20 AM	Vitals	
07.20 AM 07:33 AM	Treatment	
07:33 AM	Vitals	
07:33 AM 07:33 AM	Treatment	
07:33 AM 07:33 AM	Vitals	
00.01.43.5	T	
08:01 AM	Treatment	
08:01 AM	Vitals	
08:01 AM	Treatment	

Page 21/47

Client:
Patient:

Patient History

09:3 09:3 09:4 10:5 10:5 11:0 11:1 12:4	32 AM 32 AM 36 AM 30 AM 31 AM	Purchase Treatment Vitals Purchase Purchase Treatment Purchase Treatment Vitals Treatment Vitals	
i i	11 PM 11 PM	Treatment Vitals	
i i	12 PM	Treatment	
i i	12 PM	Vitals	
i i	2 PM	Vitals	
12:4	13 PM	Treatment	
12:4	16 PM	Treatment	
!		Purchase	
! !	52 PM	Treatment	
!!!	52 PM	Vitals	
	93 PM	Treatment	B6
	93 PM	Vitals	
i ^{03.0})3 PM	Treatment	
: :	93 PM	Vitals	
1	10 PM	Vitals	
1 :		Labwork	
: ;	50 PM	Treatment	
!		Prescription	
! ;	55 PM	Treatment	
! !	55 PM	Vitals	
:	94 PM	Treatment	
!	94 PM	Vitals	
! !	99 PM	Treatment	
05:0	99 PM	Treatment	
05:4	40 PM	Treatment	
05:4	10 PM	Vitals	
! !	52 PM	Vitals	
1	54 PM	Treatment	
! !	54 PM	Vitals	
1	54 PM	Treatment	
!	54 PM	Vitals	
1 !	55 PM	Treatment	
1 !	55 PM	Vitals	
06:4	18 PM	Prescription	
<u> </u>		Dage	22/47

Page 22/47

Client:
Patient

Patient	History
----------------	---------

06:52 PM	Treatment	
06:52 PM	Vitals	
06:52 PM	Treatment	
07:17 PM	Vitals	
07:27 PM	Treatment	
07:45 PM	Treatment	
07:45 PM	Vitals	
08:01 PM	Vitals	
08:01 PM	Treatment	
08:17 PM	Vitals	
08:27 PM	Treatment	
00.27 1 1	Treatment	
08:54 PM	Treatment	
08:54 PM	Vitals	
09:13 PM	Treatment	
09:32 PM	Treatment	
09:32 PM	Vitals	
09:32 PM	Treatment	
09:32 PM	Vitals	
09:32 PM	Vitals	
09:43 PM	Treatment	
09:43 PM	Vitals	
10:41 PM	Treatment	
B6 10:41 PM	Vitals	B6
11:07 PM	Purchase	
11:07 PM	Purchase	
11:18 PM	Treatment	
11:18 PM	Vitals	
11:18 PM	Vitals	
11:42 PM	Vitals	
11:53 PM	Treatment	
11:53 PM	Vitals	
12:52 AM	Treatment	
12:52 AM	Vitals	
01:21 AM	Treatment	
01:22 AM	Treatment	
01:22 AM	Vitals	
01:22 AM	Treatment	
01:22 AM	Vitals	
01:45 AM	Treatment	
01:45 AM	Vitals	
02:53 AM	Treatment	
02:53 AM	Vitals	
03:34 AM	Vitals	
03:34 AM	Treatment	
03:34 AM	Treatment	
03:34 AM	Vitals	
03:34 AM	Treatment	
i		

Page 23/47

Patient History

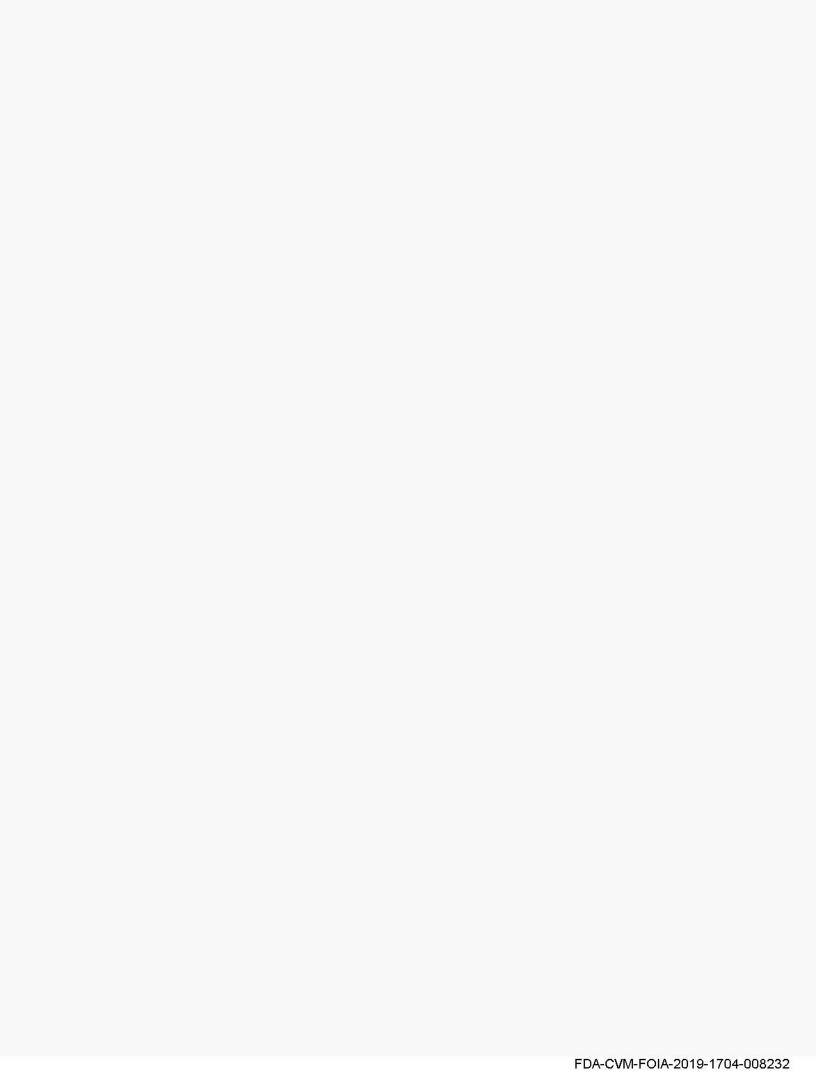
	03:35 AM	Treatment	
	OJ.JJ PAIVI	Heatment	
	03:43 AM	Treatment	
	03:43 AM	Vitals	
	04:50 AM	Treatment	
	04:50 AM	Vitals	
	04:52 AM	Vitals	
	05:25 AM	Treatment	
	05:25 AM	Vitals	
İ	05:25 AM	Treatment	
	05:27 AM	Treatment	
	05:27 AM	Vitals	
	05:27 AM	Treatment	
	05:27 AM	Vitals	
	05:28 AM	Treatment	
	05:28 AM	Vitals	
	06:41 AM	Treatment	
	06:42 AM	Vitals	
	07:25 AM	Treatment	
	07:25 AM	Vitals	
	07:26 AM	Treatment	
	07:26 AM	Vitals	
	07:26 AM	Treatment	
B6	07:26 AM	Vitals	Kh
100	07:26 AM	Vitals	B6
	08:56 AM	Treatment	
	08:56 AM	Vitals	
	09:31 AM	UserForm	
	09:39 AM	Purchase	
	09:47 AM	Treatment	
	09:47 AM	Vitals	
	09:50 AM	Treatment	
	09:50 AM	Vitals	
	09:50 AM	Treatment	
	09:50 AM	Vitals	
	09:50 AM	Treatment	
	10:21 AM	Labwork	
	11:05 AM	Purchase	
	11:05 AM	Treatment	
	11:05 AM	Vitals	
	11:25 AM	Treatment	
	11:25 AM	Treatment	
	11:48 AM	Purchase	
-	11:48 AM	Treatment	
	12:00 PM	Treatment	
<u> </u>	12:00 PM	Vitals	

Page 24/47

Client:	
Patient	į

Patient History

i







B6

Female (Spayed)

Canine English Bulldog Brown/White Patient ID:437321

STANDARD CONSENT FORM

I am the owner, or agent for the owner, of the above described animal and have the authority to execute consent. I hereby authorize the Cummings School of Veterinary Medicine at Tufts University (herein after Cummings School) to prescribe for treatment of said animal according to the following terms and conditions.

Cummings School and its officers, agents and employees will provide such veterinary medical care as they deem reasonable and appropriate under the circumstances.

Cummings School and its officers, agents, and employees will use all reasonable care in the treatment of the above mentioned animal, but will not be liable for any loss or accident that may occur or any disease that may develop as a result of the care and treatment provided.

Lunderstand that the above identified animal may be treated by Cummings School students under the supervision and assistance of Cummings School staff members.

In executing this form, I hereby expressly addrowledge that risks, benefits and alternative forms of treatment have been explained to me. I understand said explanation, and I consent to treatment. Should any additional treatments or diagnostics be required during the continued care of my animal, I understand that I will be given the opportunity to discuss and consent to these additional procedures. I understand that further or additional treatment may be required without an opportunity for discussion and consideration by me, in the case of the development of any life-threatening emergency during the continued care of my animal and I expressly consent to all such reasonable treatment as required. I realize and understand that results cannot be guaranteed.

If any equipment is left with the animal, it will be accepted with the understanding that Cummings School assumes no responsibility for any loss of equipment that may occur.

I agree to pick up the animal when notified that it is ready for release.

In the event the animal is not picked up, and if ten (10) days have expired since a registered letter was sent to the address given above, notifying me to call for the animal, the animal may be sold or otherwise disposed of in a humane manner and the proceeds applied to the charges incurred in caring and treating the animal. Failure to remove said animal will not and does not relieve me from obligation for the costs of services rendered.

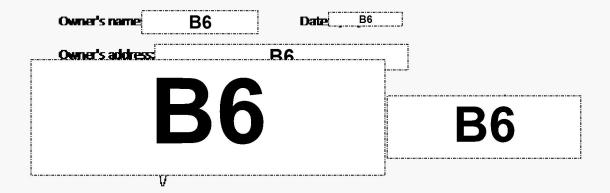
I hereby grant to the Cummings School of Veterinary Medicine at Tuffs University, its officers and employees (collectively referred to herein as Cummings School), and its agents and assigns (the Grantees) the irrevocable rights to photograph / videotape the operation or procedure to be performed, including appropriate and otherwise use such photographs and images for, and in connection with, a Grantee's medical, scientific, educational, and publicity purposes, by any means, methods and media (print and electronic) nowlmown or, in the future, developed that the Grantee deems appropriate (provided that such photographs and images may not be used in for-profit commercials, unless such commercials are publicizing educational programs at Cummings School). As medical and surgical treatment necessitates the removal of tissue, cells, fluids or body parts of my animal, I authorize the Grantees to dispose of or use these tissues, cells, fluids or body parts for scientific and educational purposes.

I understand that a FINANCE CHARGE will be applied to all accounts unpaid after 30 days. The FINANCE CHARGE is computed on a monthly rate of 1.33% per month, which is an annual percentage rate of 1.6% applied to the average daily balance outstanding, with a minimum fee of \$.50.

I do further agree that should any payment, or the full amount of the sum stated above, become overdue more than 20 days from the above agreed upon time of payment or payments, the entire balanceshall be considered in default and become due and payable. I further agree to be responsible for any or all collection agency and/or attorney fees necessary to collect the full amount.

I do further agree to comply with hours of visitation in conjunction with our Hospital's policy.

I have read, understand, and agree to accept the terms and conditions herein.



If the individual admitting the animal is someone other than the legal owner, please complete the portion below:

The owner of the animal, owner to pay the veterinar described above	B6 y medical serv		nted me authority to obtain medical treatment and to bind this d at Cummings School pursuant to the terms and conditions
Authorized Agent - Please F	Print		Agent's Signature
Street Address			Date
Town/City Sta	t e	Zio	



Treatment Plan

55 Willard Street North Grafton MA 01536 (508) 839-5395 http://vetmed.tufts.edu/

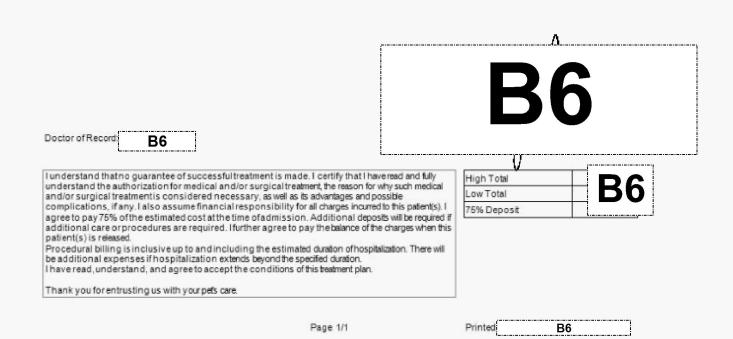
Foster Hospital for Small Animals

Estimated Charges **B6**

B6

This estimate is based upon our preliminary examination. This is an estimate and is not the final bill. Every effort will be made to keep you informed of the current status of your bill throughout your animal's hospitalization. The final fee may vary considerably from this estimated cost.

Patient	Description	Low Otv	Low Extended	HighQtv	High Extended
В6		B6			



Cummings Veterinary Medical Center

Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://vetmed.tufts.edu/

Radiology Request & Report

Patient Name: B6 2 Species: Canine Brown/White Female (Spayed) English Bulldog Birthdate: B6 Attending Clinician: B6 D1	Owner Name: Address: 01373	B6) B6 oy & Critical CareRe	Patient ID: 437321 Date of request:
Date of exam: B6			
Patient Location: Ward/Cage:	ICU 02		Weight (kg) 19.80
Inpatient Outpatient Time: Waiting Emergency Examination Desired: 3-view th	orax (priorit	tize VD/DV and L	l to sedate/anesthetize lat}
Emergency		,	
Pertinent History: B6			
Findings: THORAX, THREE VIEWS:			
		B6	

Condusions:

- Diffuse bronchial and interstitial pulmonary pattern may indicate concurrent chronic lower airway disease (allergic, infectious, or parasitic) and interstitial lung disease. Airway sampling can be considered.
- Mild cardiomegaly and left atrial enlargement without evidence of decompensation. Echocardiography can be considered (to evaluate mitral valve and to evaluate for pulmonary hypertension).
- Multifocal intervertebral disk disease and breed-associated vertebral anomalies.
- Moderate bilateral elbow and right stifle degenerative joint disease.

Kadiolog	ests	
Primary:	В6	, DVM
Reviewin	g:	
Dates		
Reported	B6	
Finalized :	=	

Cummings Veterinary Medical Center

Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Far (508) 839-7951 http://wetmed.turks.edu/

Discharge Instructions

Patient:	Owner	
Name: B6	Maine: B6	Patient ID: 437321
Species: Canine	Address D.G.	
Brown/White Female (Spayed) English	B6	
Buildog	Ĺ	. <u></u>
Birthdate: B6		
Attending Cardiologist: John E. Rush DVM, MS, DACVIM/	(Cardiology), DACVECC	
Cardioloev Resident:		······································
	36	
Cardioloev Technician:	·····	
B6		
DU		
Student: B6		
Admit Date: B6 7:49:24 PM		
Discharge Date: B6		
Diagnoses: Dilated cardiomyopathy (DOM	l) with congestive heart failure	
P		
Diagnostic test results and findings:		······································
0		
ő	B6	
0		
Case summary:		
Thank you for bringing B6 to Tufts for a	valuation of her heart disease.	B6 originally presented to the Tuits ER of B6
		with supplemental coygen in the ICU and was
_	-	B6_ chest showed a diffuse increased opacity in
-	-	neumonia could not beruled out. A cardiology
		a blood test showed that one of the indicators of
heart stretch was elevated, thus supporting	ig the presence of heart disease	
R6 shar hour diagram admits a primary	hoort muurlo dicasca callad dila	ted cardiomyopathy (DOM). This disease is more
L		teu caruninyupanny (Dow), mis usease s mure fthe walls of the heart, reduced cardiac pump
2 2 2		s with DOM will also have significant archythmias

which can be life-threatening and also require medical management. The heart enlargement has now progressed to the point of congestive heart failure, meaning that fluid is backing up into the lungs or belly. Unfortunately this is a progressive
point of congestive resint failure, meaning that fluid is dauting up into the lungs of deliy. Onlithumately this is a progressive disease and we cannot reverse the changes to the heart musde, however we can use cardiac medications and some
changes to the diet to make B6 comfortable and have her breathing easier.
B6 has been breathing well outside of the oxygen cage, and her recheck examinations, echocardiograms, and chest x-rays have been stable. At this time we are happy with her condition, and are comfortable to send her home.
Monitoring at home:
 We would like you to monitor your dog's breathing rate and effort at home, ideally during sleep or at a time of rest.
The doses of drugs will be adjusted based on the breathing rate and effort.
O in general, most dogs with heart failure that is well controlled have a breathing rate at rest of less than 35 to 40 breaths per minute. In addition, the breathing effort, noted by the amount of belly wall motion used for each
breath, is fairly minimal if heart failure is controlled.
O An increase in breathing rate or effort will usually mean that you should give an extra (B6, If
difficulty breathing is not improved by within 30-60 minutes after giving ext; 86 then we recommend
that a recheck exam be scheduled and/or that your dog be evaluated by an emergency dinic. O There are instructions for monitoring breathing, and a form to help keep track of breathing rate and drug doses, on
the Tufts HeartSmart web site (http://web.tufts.edu/heartsmart/at-home-monitoring/).
 We also want you to watch for weakness or collapse, a reduction in appetite, worsening cough, or distention of the
bely as these findings indicate that we should do a recheck examination.
 If you have any concerns, please call or have your dog evaluated by a veterinarian. Our emergency clinic is open 24 hours/day.
ina yuay.
Recommended Medications:
B6

Diet suggestions:

Dogs with heart failure accumulate more fluid in their body if they eat large amounts of sodium (salt). Sodium can be found in all foods, but some foods are lower in sodium than others. Many pet treats, people foods, and supplements used to give pills often have more sodium than is desirable - a sheet that has suggestions for low sodium treats can be found on the HeartSmart web site (http://wet.tufts.edu/heartsmart/diet/)

Your dog's usual diet may also have more sodium than recommended - we want her to continue to eat her normal diet for the first 7 to 14 days so we can make sure she is tolerating medications well, but after that time we would recommend slowly introducing one of the lower sodium diets on the HeartSmart list (25% of the new diet and 75% old diet for 2-3 days, then 50-50, etc.). Hopefully you can find a diet on the list that your dog likes to eat.

The FDA is currently investigating an apparent association between diet and DCM. The exact cause is still unclear, but it appears to be associated with boutique diets and those containing exotic ingredient or are grain-free. Therefore, we are currently recommending that dogs do not eat these types of diets.

We recommend switching B6 to commercial diet made by a well-established company that is **not grain-free** and does not contain any exotic ingredients, such as kangaroo, duck, lamb, venison, lentils, peas, beans, buffalo, tapioca, barley, and chidopeas.

The FDA issued a statement regarding this issue.

(https://www.fda.gov/AnimalVeterinary/NewsEvents/CVMUpdates/ucm613305.htm) and a recent article published by Dr. Lisa Freeman on the Cummings School's Petfoodology blog can further explain these findings

(http://vetrutrition.tufts.edu/2018/06/a-broken-heart-risk-of-heart-disease-in-boutique-or-grain-free-diets-and-exotic-ingredients/).

Our nutritionists have compiled a list of dog foods that are good options for dogs with heart disease.

Dry Food Options:

Royal Canin Early Cardiac (veterinary diet)

Royal Canin Boxer

Purina Pro Plan Adult Weight Management

Purina Pro Plan Bright Mind Adult Small Breed Formula

Carmed Food Options:

Hill's Science Diet Adult Beef and Barley Entree

Hill's Science Diet Adult 1-6 Healthy Cuisine Roasted Chicken, Carrot, and Spinach Stew

Royal Canin Mature 8+

If your dog has special nutritional needs or requires a homecooked diet, we recommend you schedule an appointment with our nutritionists (508-887-4696).

Exercise Recommendations:

For the first 7 to 10 days after starting medications for heart failure we recommend very limited activity. Leash walking only is ideal, and short walks to start. Once the heart failure is better controlled, then slightly longer walks are acceptable. However, if you find that $\begin{bmatrix} B6 \end{bmatrix}$ is lagging behind or needs to stop on a walk then this was too long a walk and shorter walks are advised in the future. Repetitive or strenuous high energy activities (repetitive ball chasing, running fast off-leash, etc.) are generally not advised at this stage of heart failure.

Recheck Visits:

Arecheck visit is recommended in 1-2 weeks after any medication adjustments are made. At this visit we will check your dog's breathing effort and heart function, do a blood test to recheck kidney values, and probably recheck a blood pressure. A recheck echocardiogram is recommended in 3-4 months.

Thank you for entrusting us with B6 care, she is such a spirited girl! Please contact our Cardiology liaison at (508)-887-4696 or email us at cardiovet@tuits.edu for scheduling and non-emergent questions or concerns.

Jilady,
DT. B6
Please visit our HeartSmart website for more information
http://wet.tulits.edu/heartsmart/
Prescription Refill Discloiner:
For the safety and well-being of our patients, your pet must have had an examination by one of our veterinarians within the past year in order to obtain prescription medications.
Ordering Food: Please check with your primary veterinarian to purchase the recommended diet(s). If you wish to purchase your food from us, please call 7-10 days in advance (508-887-4629) to ensure the food is in stock. Alternatively, veterinary diets can be ordered from online retailers with a prescription/veterinary approval.
Clinical Trials: Clinical trials are studies in which our veterinary doctors work with you and your pet to investigate a specific disease process or a promising new test or treatment. Please see our website: <u>vet.tufts.edu/cvmc/dinical-studies</u>

В6

Discharge Instructions

Case B6

Owner:

Cummings Veterinary Medical Center

Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://wetmed.tufts.edu/

Radiology Request & Report

Patient	Owner	Owner			
Name B6	Name	B6	Patient ID: 437321		
Species: Canine	Address:	B6	Date of	request:	B6
Brown/White Female (Spayed)	l	В			
English Bulldog Birthdate: B6	01373				
Attending Clinician:	B6	DVM (Resident, Cardio	ology)	Student:	В6
Date of exam: B6					
Patient Location: Ward/Cag	e: Cardio, ICU	1		Weight (kg)	19.60
	5	edation			
Inpatient		BAG			
Outpatient Time:		OBAG			
■ W aiting		■ 1/2 dose OBAG	j		
■ Emergency		DexDomitor/Bu			
,		Anesthesia to s		sthetize	
Examination Desired: 2 view CXR-DV and R lateral **TECHS TO HANDLE ONLY**- be careful due to dyspnea, do not stress further if dyspneic Presenting Complaint and Clinical Questions you wish to answer: Recheck rads for CHF before discharge Pertinent History: DCM, suspected CHF on rads B6					
Findings					
		B6			

Condusions:

- Improving interstitial pulmonary pattern is consistent with response to medical management.
- Unchanged mild cardiomegaly and similar to mildly improved left atrial enlargement.
- Unchanged multifocal intervertebral disk disease and breed-associated vertebral anomalies.
- Unchannged moderate bilateral elbow degenerative joint disease.

Radiologis	sts	
Primary:	B6_	VMD
Reviewing	Ç.	
Dates Reported:	В6	
Finalized:		

Cummings Veterinary Medical Center

AT TUFTS UNIVERSITY Cardiology Liaison: 508-887-4696 **B6**

Patient ID: 437321 B6 Canine B6 Years Old Female (Spayed) English Bulldog Brown/White BW: Weight (kg) 19.80

Cardiology Inpatient ENROLLED IN DCM STUDY Date **B6** Weight: Weight (kg) 19.80 Attending Cardiologist: John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC Cardiology Resident: Thoracic radiographs available for review? Yes - in SS Yes - in PACS No. Patient location: ICU 02 5/6 Presenting complaint and important concurrent diseases: Presenting for new onset dyspnea, radiographs unintelligible between pneumonia and CHF. Persistent sinus tachycardia overnight Current medications and doses: **B6** At-home diet: (name, form, amount, frequency) Core Wellness grain-free wet + dry Key indication for consultation: (murmur, arrhythmia, needs fluids, etc.) dyspnea, contiguous B-lines Questions to be answered: fluid vs. lasix **Is your consult time-sensitive?** (e.g., anesthesia today, owner waiting, trying to get biopsy today) Yes (explain):

■ No

STOP - remainder of form to be filled out by Cardiology

Physical Examination	
B6	
Muscle condition:	
Normal	Moderate cachexia
Mild muscle loss	Marked cachexia
Cardiovascular Physical Exam	
	the marked dyspnea and referred upper airway.
☑ None	<u> </u>
<u> </u>	<u> </u> v/vi
□ II / VI	■ vi/vi
□ III / VI	
Murmur location/description:	
Jugular vein:	
Bottom 1/3 of the neck	Top 2/3 of the neck
☐ Middle 1/3 of the neck	1/2 way up the neck
Arterial pulses: n/a	_
<u>□</u> Weak	Bounding
Fair	Pulse deficits
☐ Good	Pulsus paradoxus
☐ Strong	Other (describe):
Arrhythmia:	_
☑ None	Bradycardia
Sinus arrhythmia	■ Tachycardia
Premature beats	
Gallop:	_
Yes	Pronounced
<u>™</u> No	Other:
Intermittent	
Pulmonary assessments:	
Eupneic	Pulmonary Crackles
Mild dyspnea	Wheezes
Marked dyspnea	Upper airway stridor
Normal BV sounds	Other auscultatory findings:
Abdominal exam: n/a	

■ Normal■ Hepatomegaly	Abdominal distensionMild ascites	
Echocardiogram Findings:		
	B6	
Addendum exam:		
	B6	
Mitual inflow: Summated Normal Delayed relaxation Radiographic findings:	□ Pseudonormal ☑ Restrictive	
	B6	
DCM with moderate to marked LA e bulldog radiographs, but we suspect visualized. Treatment for HF should in favor for CHF. Antibiotic treatment out. B6 was given was enrolled in Dr. Freeman's study	ocardiogram pictures obtained today, enlargement. The radiographs are very t CHF to be one of the main differenti be iniated and improvement of the c nt should be continued since pneumor during the echocardiogram and B6 rdue to its current grain free diet and	hard to interpret, typical for ial despite the atypical pattern linical condition would be a vote nia cannot be completely rule 86 The patient blood was pulled today for the
	e, B6 n order to better assess the cardiovas ne changes seen on radiographs are no B6	_ : :

B6 suspected diagnosis of CHF versus n another disease process. A recheck patient is more stable in order to co well as 10-14 days after the start of recommended in 3 months or soon heart disease. Addendum:	io changes of the ir echocardiogram sh infirm today's findio the cardiac medica	ould be repeated as well ngs. Bloodwork should be xions. Full recheck echoc	e more in fabor of tomorrow once the repeated tomorrow as ardiogram is
	B6		
Final Diagnosis: - Suspected DCM with moderate to Heart Failure Classification Score:	marked LA enlarge	ment and suspected CHF	······································
ISACHC Classification:			
🔲 la	🔲 IIIa		
■ lb	☑ IIIb		
■ II			
ACVIM CHF Classification:	_		
■ A	 C		
■ B1	■ D		
■ B2			
M-Mode			
IVSd			cm
IVIDd			om .
IVPWd			om
I VS s			om .
LVIDs			om
LVPWs			am
EDV(Teich)			ml
ESV(Teich)			ml
EF(Teich)			%
%FS			%
SV(Teich)		DC	ml
-		B6	
M-Mode Normalized			
IVSdN			(0.290 - 0.520)
LVIDdN			(1.350 - 1.730) !
LVPWdN			(0.330 - 0.530)
IVSsN			(0.430 - 0.710)
LVIDSN			(0.790 - 1.140) !
LVPWsN			(0.530 - 0.7 8 0)
			•
<u>2D</u>			
SA LA			cm .

Ao Diam		cm .
SA LA / Ao Diam		
IVSd		om
LVIDd		om .
LVPWd		cm .
EDV(Teich)		ml
IVSs		om
LVIDs		cm cm
LVPWs	B6	cm .
ESV(Teich)		ml
EF(Teich)		%
%FS		%
SV(Teich)		ml
IVSd		cm .
LVIDd		om
EDV(Teich)		ml
LVPWd		cm



Foster Hospital for Small Animals 95 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://wetmed.turks.edu/ Referring Vet Direct Line 508-887-4988

Notice of Patient Admit

Date: B6	7:49:24 PM 1or. B6	Case No: 437321
		 ;
Patient II ame:	B6	
Dear B6]	
Your patient pre communication		gency service. Please make note of the following information to facilitate
	doctor is: B6 radmission to the	e FHSA is: Dyspnea (pneumonia > CHF)
If you have any	anedions regarding	g this particular case, please call 508-887-4988 to reach the ICU Service.

Thank you for your referral to our Emergency Service.

Cummings Veterinary Medical Center

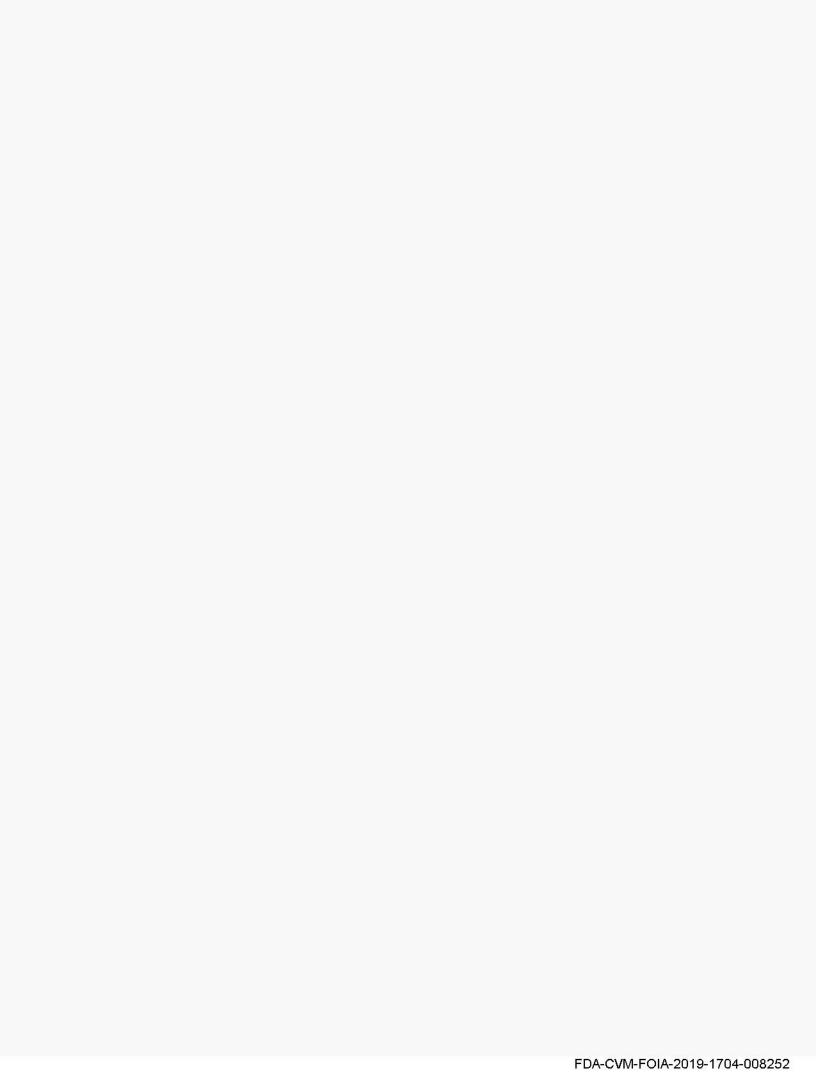


Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://vetmed.tufts.edu/Chloe

B6 Female (Spayed)
Canine English Bulklog
Brown/White
437321

Daily Update From the Cardiology Service

Today's date: Dear Drs at	B6			
Dear Drs at	В6			
Thank you for refe University.	rring patien	its to the Foster h	Hospital for Small Animals at the Cummings School of Tufi	is
Your patient	В6	was admitted ar	nd is being cared for by the Cardiology Service.	
Today, B6				
is in stable				
is still in th		ge		
■ is critically ■ discharged				
usurarge:	i irum the n	ospitai today		
Today's treatment	s include:			
bloodwork		ending		
echocardic	graphy - DO	CM and L-CHF		
cardiac cal	-			
ongoing to				
ongoing to ongoing to				
- ongoing a	eaunent lui	amyuma		
Additional plans:				
Please allow 3-5 b	usiness days	s for reports to be	e finalized upon patient discharge.	
Please call (508) 8 Thank you!	87-4696 bef	fore 5pm or emai	l us at cardiovet@tufts.edu if you have any questions.	
Attending Clinician	ış	B6	DVM (Resident, Cardiology)	
Faculty Clinician: J	ohn Rush D	VM, DACVIM, DA	ACVECC	
Senior student:				



Cummings Veterinary Medical Center

P6

Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://wetmed.tufts.edu/

B6 Female (Spayed)
Canine English Bulklog
Brown/White
437321

1/21/2019	
4-4-0-	

)ear Di	г. В6			
Thanky	ou for referring	В6	with their pet B6	
if you h Thank y	• • • •	r concerns, pi	lease contact us at 508-8	87-4988.
)r.	B6)VM (Resid	lent, Cardiology)	

From: Freeman, Lisa <Lisa.Freeman@tufts.edu>

To: Jones, Jennifer L **Sent:** 3/1/2019 9:50:52 PM

Subject: FW: taurine results for B6

Attachments: Stern Lab Taurine Recommendations.pdf; T_27754.pdf; UCD Diet and DCM Handout.pdf

FYI

B6 3 bulldogs from same household and on same diet DCM and CHF had B6 plasma and B6 WB

B6 - with ARVC and arrhythmias had B6 and B6

B6 this most recent one (likely ARVC) was B6 and B6

Lisa

Lisa M. Freeman, DVM, PhD, DACVN
Board Certified Veterinary NutritionistTM
Professor
Cummings School of Veterinary Medicine
Friedman School of Nutrition Science and Policy
Tufts Clinical and Translational Science Institute
Tufts University
www.petfoodology.org

BERKELEY • DAVIS • IRVINE • LOS ANGELES • MERCED • RIVERSIDE • SAN DIEGO • SAN FRANCISCO



SANTA BARBARA • SANTA CRUZ

STERN CARDIAC GENETICS LABORATORY JOSHUA A. STERN, DVM, PHD, DACVIM (CARDIOLOGY)

sterngenetics@ucdavis.edu; August 9, 2018

FREQUENTLY REQUESTED INFORMATION REGARDING TAURINE & DILATED CARDIOMYOPATHY IN GOLDEN RETRIEVERS

Taurine reference ranges for Golden Retrievers: The Stern Lab suggests that the following clinical reference ranges be used for Golden Retrievers and be considered for other known taurine-sensitive breeds such as Newfoundlands or American Cocker Spaniels. This is primarily based on 3 observations:

- 1. Golden Retrievers with marginal taurine levels (defined below) have been diagnosed with dilated cardiomyopathy and have documented disease reversal after taurine supplementation and diet change.
- 2. Previously published work documents taurine sensitivity in Golden Retrievers.
- 3. The most recently published reference on normal blood taurine values shows higher levels than previously reported.
 - o Normal whole blood taurine: >250nmol/mL
 - Normal plasma taurine: >70nmol/mL
 - Marginal whole blood taurine: 200-250nmol/mL
 - o Marginal plasma taurine: 60-70nmol/mL
 - Low whole Blood taurine: <200nmol/mL
 - Low plasma taurine: <60nmol/mL

References:

Kramer GA, Kittleson MD, Fox PR, Lewis J, Pion PD. Plasma taurine concentrations with normal dogs and in dogs with heart disease. J Vet Intern Med 1995;9:253-258.

Belanger MC, Ouellet M, Queney G, Moreau M. Taurine-deficient dilated cardiomyopathy in a family of golden retrievers. J Am Anim Hosp Assoc 2005;41:284-291.

Kittleson MD, Keene B, Pion PD, Loyer CG, MUST Study Investigators. Results of the multicenter spaniel trial (MUST): taurine- and carnitine-responsive dilated cardiomyopathy in American Cocker Spaniels with decreased plasma taurine concentration. J Vet Intern Med 1197;11:204-211.

Backus RC, Choen G, Pion PD, Good KL, Rogers QR, Fascetti AJ. Taurine deficiency in Newfoundlands fed commercially available complete and balanced diets. J Am Vet Med Assoc 2003;223:1130-1136.

Fascetti AJ, Reed JR, Rogers QR, Backus RC. Taurine deficiency in dogs with dilated cardiomyopathy: 12 cases (1997-2001). J Am Vet Med Assoc 2003;223:1137-1141.

Freeman LM, Michel KE, Brown DJ, Kaplan PM, Stamoulis ME, Rosenthal SL, Keene BW, Rush JE. Idiopathic dilated cardiomyopathy in Dalmatians: nine cases (1990-1995). J Am Vet Med Assoc 1996;209:1592-1596.

Delaney SJ, Kass PH, Rogers QR, Fascetti AJ. Plasma and whole blood taurine in normal dogs of varying size fed commercially prepared food. J Anim Physiol a Anim Nutr 2003;87:236-244.

Plasma vs. whole blood taurine testing:

If at all possible, we recommend that paired (plasma and whole blood) taurine samples be submitted for analysis. A low value on either or both tests is clinically relevant. If your dog is diagnosed with DCM, submitting paired taurine samples (plasma and whole blood) is imperative. We recommend that the UC Davis Amino Acid Laboratory be used for taurine testing, as this is where the literature utilized for our reference ranges was generated. https://www.vetmed.ucdavis.edu/labs/amino-acid-laboratory. If a single test is submitted the Stern Lab recommends that whole blood be submitted preferentially. This is due to the false elevation of taurine levels that is possible in plasma samples due to sample handling issues. This is an area of some debate between clinicians and conflicting information on preference for plasma vs. whole blood exists. This underscores the value of paired sampling.

Page 1 of 3

Clinical Recommendations for Golden Retrievers based on taurine levels:

If taurine levels test < 200 nmol/mL in whole blood or < 60 nmol/mL in plasma

- An echocardiogram by a board-certified veterinary cardiologist is indicated
- After echocardiogram has been completed, a diet change is recommended.
 - o If DCM is diagnosed, this patient may need a variety of cardiac medications that would be prescribed by the attending cardiologist.
 - o If DCM is diagnosed, prescribed supplementation with oral taurine and l-carnitine is recommended.
 - Reevaluation of taurine levels is warranted after three months of diet change and supplementation.
 - Cardiology reevaluation schedules will be recommended by the attending clinician pending echocardiographic findings.
 - Many Golden Retrievers with taurine-deficient DCM in our study showed slow and steady improvement over a period of 6-12 months.

If taurine levels test 200 - 250nmol/mL in whole blood or 60-70nmol/mL in plasma

- An echocardiogram by a board-certified cardiologist is recommended.
- After echocardiogram has been completed, a diet change is recommended.
- We recognize that many dogs in this category may have normal echocardiograms and thus the value of screening should be carefully considered. If the dog is eating a diet that falls within the FDA warning or shares features with the diets identified in our study (see diets of concern section below), we encourage echocardiographic screening with greater enthusiasm.
- If an echocardiogram is not performed, a diet change is still recommended and a taurine level reevaluation after three months on the new diet should be considered.
- If DCM is diagnosed, this patient may need a variety of cardiac medications that would be prescribed by the attending cardiologist.
 - o If DCM is diagnosed, prescribed supplementation with oral taurine and l-carnitine is recommended.
 - Reevaluation of taurine levels is warranted after three months of diet change and supplementation.
 - Cardiology reevaluation schedules will be recommended by the attending clinician pending echocardiographic findings.
 - o Many Golden Retrievers with taurine-deficient DCM in our study showed slow and steady improvement over a period of 6-12 months.

If taurine levels test > 250nmol/mL in whole blood or > 70nmol/mL in plasma

- Diet change is recommended if you are feeding a diet that falls within the FDA warning or shares features with the diets identified in our study (see diets of concern section below)
- If your pet shows any signs of cardiac disease (trouble breathing, exercise intolerance, fainting/collapse, coughing) we recommend your veterinarian evaluate your pet.

Diets of Concern & Choosing a diet

The FDA alert called attention to several dietary ingredients that should be considered when evaluating whether your pet is at risk (for example legumes like peas and lentils, white or sweet potatoes). These findings were largely recapitulated in our current study of Golden Retrievers with low taurine levels and DCM. Our lab considers these ingredients to be of greatest concern when present within the first 5 listed ingredients on the dog food bag. Additionally, we noted a high percent of diets in our study were using protein sources other than chicken or beef and labeled as grain-free.

Points to consider when making a diet change:

- Choose a diet that does not contain the concerning components listed above
- Choose a diet that meets the WSAVA Global Nutrition Assessment Guidelines published as consensus by veterinary nutritionists from around the world:
 - o https://www.wsava.org/WSAVA/media/Arpita-and-Emma-editorial/Selecting-the-Best-Food-for-your-Pet.pdf
- FDA alert found here:
 - o https://www.fda.gov/AnimalVeterinary/NewsEvents/CVMUpdates/ucm613305.htm

Choosing a taurine or l-carnitine supplement:

Selecting supplements should be performed based upon those that match their stated contents and are readily available for absorption. Luckily a previous publication tested multiple taurine and l-carnitine supplements. Based upon this publication our laboratory recommends the following supplements as those meeting our quality criteria. (Bragg et al. 2009 J Am Vet Med Assoc; 234(2))

Tested taurine supplements that test within 5% of stated contents and if applicable disintegrated within 30 minutes

- Mega taurine caps by Twinlab (1000 capsule)
- Taurine by Swanson Health Products (500mg capsule)
- Taurine by NOW foods (500mg capsule)
- Taurine 500 by GNC (500mg tablet)

<u>Tested L-carnitine supplements that test within 5% of stated contents and if applicable disintegrated within 30 minutes</u>

- L-carnitine 500 by Jarrow Formulas (500mg capsule)
- L-carnitine caps by Country Life (500mg capsule)
- Maxi L-carnitine by Solgar Vitamin and Herb (500mg tablet)
- L-carnitine by Puritan's Pride (500mg tablet)

The Stern lab does not recommend the empirical supplementation of taurine or l-carnitine to dogs without evidence of DCM and/or significant deficiency. If DCM is diagnosed we typically recommend dogs over 50lbs receive 1000mg of taurine every 12hrs and dogs under 50lbs receive 500mg of taurine every 12hours. We recommend L-carnitine at a dose of \sim 50mg/kg orally with food every 8hrs. Your veterinary cardiologist or family veterinarian should be consulted for prescribing the best dose for your dog.

Reporting to the FDA:

Understanding the basis of this condition requires a great deal of research and investigation. Clients with affected dogs can contribute their data to help propel this research forward. You can report cases of taurine deficiency, dilated cardiomyopathy, sudden cardiac death, or any combination of these events to the FDA by following the information found here:

https://www.fda.gov/animalveterinary/safetyhealth/reportaproblem/ucm182403.htm

Additional questions or comments: <u>sterngenetics@ucdavis.edu</u> This document last updated: Aug. 20, 2018

Page 3 of 3

27754 OPL (need rr)

Amino Acid Laboratory Sample Submission Form

Amino Acid Laboratory, 1089 Veterinary Medicine Drive, Davis, Ca 95616

Telephone: 530-752-5058, Fax: 530-752-4698

Email: ucd.aminoacid.lab@ucdavis.edu

www.vetmed.ucdavis.edu/labs/amino-acid-laboratory

Veterinarian Conta	act: B6				
Clinic/Company N	ame: Tufts Cumming	gs School of Vet. Med	d Clinical Patholog	y Laboratory	
Address: 200 West	boro Road, North Gra	ofton MA 015369			
Email: Clinpath@	otufts.edu card	iovet@tufts	. e d u		
Telephone:508-	387-4669	Fax: _	508-839-7936		
Billing Contact:	B6	Email	l: B6		
Billing Contact Pho	ne: B6	Tax IC	D:		
Patient Name	B 6	Speci	es: <u>CANIM</u>	<u>e</u>	
Breed: ENGli	Sh Bulldo	<u>C</u> Owne	er's Name	B6	
Current Diet :	ore well	vess GREA	HN FREE		-
Sample type:	Plasma Whole I	Blood Urine	Food Other _	-	
Test: Taurine	Complete Amino	Acids Other:			
Taurine Resul	ts (lab use only)				
;	Whole Blood:	B6 Urine	e: F	ood:	
	Plasma (r	nMol/ml)	Whole Bloc	od (nMol/ml)	
	Normal Range	No known risk	Normal Range	No known risk	
		for deficiency		for deficiency	
Cat	80-120	>40	300-600	>200	
Dog	60-120	>40	200-350	>150	

^{*} Please note with the recent increase in the number of dogs screened for taurine deficiency, we are seeing dogs with values within the reference ranges (or above the "no known risk for deficiency range") yet are still exhibiting signs of cardiac disease. Veterinarians are welcome to contact our laboratory for assistance in evaluating your patient's results.



CARDIOLOGY SERVICE UPDATES: DOG FOOD & DILATED CARDIOMYOPATHY

The Cardiology Service has developed this document in response to the alerts from the FDA. These alerts identify an associated risk for some grain-free diets containing certain ingredients (legumes like peas, pea components, lentils; white potatoes, sweet potatoes) and a diagnosis of dilated cardiomyopathy (DCM). The links provided throughout this document can be copied and pasted to obtain additional information.

FDA Alerts found here:

https://www.fda.gov/AnimalVeterinary/NewsEvents/CVMUpdates/ucm613305.htm https://www.fda.gov/AnimalVeterinary/ResourcesforYou/AnimalHealthLiteracy/ucm616279.htm

What is Dilated Cardiomyopathy (DCM)?

DCM is a heart muscle disorder that results in a weak pump function and heart chamber enlargement. In the early stages of this disease pets may appear totally healthy with no apparent clinical signs. Later in the course of this disease, dogs may have a heart murmur, an arrhythmia (irregular heart beat), collapse episodes, weakness or tiredness with exercise, and even trouble breathing from congestive heart failure. While there are some breeds of dogs (like Dobermans) that have a genetic predisposition to development of DCM, there are also nutritional factors that may result in this disease.

What should I do?

If you are feeding a diet of concern based upon the FDA alert we recommend that you consult with your veterinarian or veterinary cardiologist. We provide 4 general points for guidance below:

1. An initial step is to **consider whether you are willing or interested in performing additional testing** to assess whether your pet is affected with DCM. If you believe your dog is at risk, showing any of the aforementioned clinical signs or would prefer to simply rule out any heart disease, we recommend that you first have your pet's taurine levels tested (both whole blood and plasma levels) as well as seek an echocardiogram by a board-certified veterinary cardiologist. Low taurine levels are associated with development of DCM in dogs and are sometimes a component of this current issue.

Information on taurine testing can be found here: https://www.vetmed.ucdavis.edu/labs/amino-acid-laboratory

2. At this time, **diet change is recommended when possible** and should be considered regardless of the results obtained from any testing. You can consult with your veterinarian in selecting a new diet that avoids the ingredients of concern listed by the FDA. When selecting this diet, we recommend that you choose a diet that is manufactured with rigorous quality control measures and research behind the formulation. A way to ensure that your diet meets these recommendations is to follow the following guidelines that were generated by a large number of the world's leading experts in veterinary nutrition.

Food selection guidelines found here:

https://www.wsava.org/WSAVA/media/Arpita-and-Emma-editorial/Selecting-the-Best-Food-for-your-Pet.pdf

3. If your pet is identified through testing to have a low blood taurine level or evidence of DCM by echocardiogram, we urge you to **report this information to the FDA**.

FDA reporting guidelines found here: https://www.fda.gov/AnimalVeterinary/SafetyHealth/ReportaProblem/ucm182403.htm

4. **Work with your veterinarian**(s) to determine the best course of action and medical treatments if indicated. In the case of a DCM diagnosis, diet change alone may not be sufficient and additional medications may be prescribed.

Please continue to monitor the FDA website and the UC Davis School of Veterinary Medicine Newsfeeds for updates and recommendations regarding this issue.

From: Freeman, Lisa <Lisa.Freeman@tufts.edu>

 To:
 Jones, Jennifer L

 Sent:
 B6
 5:29:55 PM

Subject: B6 - time sensitive

Importance: High

Hi Jen

I also left you a voice message but I just heard that B6 died suddenly B6 This is one of at least 3 dogs in the household affected by DCM eating the same diet. We're actually scheduled to see the 3 dogs tomorrow and to evaluate a 4th dog in the household that has an elevated BNP. So, this is a particularly interesting household.

The referring vet contacted me and said the owner is bringing **B6** n for cremation. He will ask if he can get samples for you but we'd need to know what tissues to get, how to store them, etc.

Please let me know next steps Thanks Lisa

Lisa M. Freeman, DVM, PhD, DACVN
Board Certified Veterinary NutritionistTM
Professor
Cummings School of Veterinary Medicine
Friedman School of Nutrition Science and Policy
Tufts Clinical and Translational Science Institute
Tufts University
www.petfoodology.org
508-887-4523

From: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov>

Sent: Tuesday, March 26, 2019 1:50 PM **To:** Freeman, Lisa <Lisa.Freeman@tufts.edu>

Subject: RE: Cobalt

Hi Lisa,

We based this on the 25 mg/kg diet for chicks, rats, and sheep per Mineral Tolerances of Animals 2^{nd} Ed, 2005 (NRC). The cobalt in the products we tested was below 1 ppm.

Hope you're well,

Jen

Jennifer Jones, DVM Veterinary Medical Officer

Tel: 240-402-5421



From: Freeman, Lisa < <u>Lisa.Freeman@tufts.edu</u>> Sent: Saturday, March 23, 2019 11:43 AM

To: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov>

Subject: Cobalt

Hi Jen.

In the Feb, 2019 Vet-LIRN report, it states that cobalt was tested in the diets and was within normal nutrient

ranges recommended by AAFCO. Since Co is not an essential nutrient listed in the AAFCO profiles, are you using the max of 10 ppm that is for all species from AAFCO (ie, the level that "will not impair animal performance and should not produce unsafe residues in human food derived from that animal"?

Thanks, Lisa

Lisa M. Freeman, DVM, PhD, DACVN
Board Certified Veterinary NutritionistTM
Professor
Cummings School of Veterinary Medicine
Friedman School of Nutrition Science and Policy
Tufts Clinical and Translational Science Institute
Tufts University
www.petfoodology.org

From: Rotstein, David </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0A3B17EBFCF14A6CB8E94F322906BADD-

DROTSTEI>

 To:
 Jones, Jennifer L

 CC:
 Peloquin, Sarah

 Sent:
 B6 5:51:07 PM

Subject: RE: B6 - time sensitive

Jen,

I guess from my point of view, having an additional case would be helpful as I think some of the cases that I looked at will fall out of the counting.

I agree it's a predisposed breed, so perhaps it may make a good comparison (though I suspect we won't see a huge difference).

I will go the way of the consensus (three on the email (3))

Dave

David Rotstein, DVM, MPVM, Dipl. ACVP CVM Vet-LIRN Liaison CVM OSC/DC/CERT 7519 Standish Place 240-506-6763 (BB)





This e-mail message is intended for the exclusive use of the recipient(s) named above. It may contain information that is protected, privileged, or confidential, and it should not be disseminated, distributed, or copied to persons not authorized to receive such information. If you are not the intended recipient, any dissemination, distribution, or copying is strictly prohibited. If you think you received this e-mail message in error, please e-mail the sender immediately at david.rotstein@fda.hhs.gov.

From:	Jones, Jenn	ifer L	
Sent:	В	3 2:	43 PM
To: Ro	tstein, David	<david.rot< td=""><td>stein@fda.hhs.gov></td></david.rot<>	stein@fda.hhs.gov>
Cc: Pe	loquin, Sara	h <sarah.pe< td=""><td>eloquin@fda.hhs.gov</td></sarah.pe<>	eloquin@fda.hhs.gov
Subjec	t: FW:	B6	- time sensitive

Importance: High

Dave,
I know we're chatting Thursday about the results and next steps.

B5

I'm leaning

You're looking at the histo, though, what do you think?

Jen

Jennifer Jones, DVM Veterinary Medical Officer Tel: 240-402-5421



From: Freeman, Lisa < Lisa.Freeman@tufts.edu>

Sent: B6 2:30 PM

To: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov>

Subject: B6 - time sensitive

Importance: High

Hi Jen

I also left you a voice message but I just heard that B6 died suddenly B6 This is one of at least 3 dogs in the household affected by DCM eating the same diet. We're actually scheduled to see the 3 dogs tomorrow and to evaluate a 4th dog in the household that has an elevated BNP. So, this is a particularly interesting household.

The referring vet contacted me and said the owner is bringing **B6** in for cremation. He will ask if he can get samples for you but we'd need to know what tissues to get, how to store them, etc.

Please let me know next steps Thanks Lisa

Lisa M. Freeman, DVM, PhD, DACVN
Board Certified Veterinary NutritionistTM
Professor
Cummings School of Veterinary Medicine
Friedman School of Nutrition Science and Policy
Tufts Clinical and Translational Science Institute
Tufts University
www.petfoodology.org
508-887-4523

From: Jones, Jennifer L < Jennifer.Jones@fda.hhs.gov>

Sent: Tuesday, March 26, 2019 1:50 PM

To: Freeman, Lisa < Lisa. Freeman@tufts.edu>

Subject: RE: Cobalt

Hi Lisa.

We based this on the 25 mg/kg diet for chicks, rats, and sheep per Mineral Tolerances of Animals 2^{nd} Ed, 2005 (NRC). The cobalt in the products we tested was below 1 ppm.

Hope you're well,

Jen

Jennifer Jones, DVM Veterinary Medical Officer Tel: 240-402-5421





From: Freeman, Lisa < Lisa.Freeman@tufts.edu>

Sent: Saturday, March 23, 2019 11:43 AM

To: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov>

Subject: Cobalt

Hi Jen,

In the Feb, 2019 Vet-LIRN report, it states that cobalt was tested in the diets and was within normal nutrient ranges recommended by AAFCO. Since Co is not an essential nutrient listed in the AAFCO profiles, are you using the max of 10 ppm that is for all species from AAFCO (ie, the level that "will not impair animal performance and should not produce unsafe residues in human food derived from that animal"?

Thanks, Lisa

Lisa M. Freeman, DVM, PhD, DACVN
Board Certified Veterinary NutritionistTM
Professor
Cummings School of Veterinary Medicine
Friedman School of Nutrition Science and Policy
Tufts Clinical and Translational Science Institute
Tufts University
www.petfoodology.org

Jones, Jennifer L </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP From: (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0F6CA12EAA9348959A4CBB1E829AF244-JENNIFER.JO> To: Freeman, Lisa CC: Peloquin, Sarah Sent: B6 11:05:51 AM time sensitive (cc-297) Subject: RE: Thank you, Lisa. I see Jake sent you the necropsy procedures. Yes, we can work on a prioritized list for veterinarians collecting limited tissue sets. We can also have veterinarians freeze the bodies until we send them supplies (esp. if large intact hearts). veterinarian contact me directly to coordinate the sample collection and reimbursement. Please havi **B6** I'll be at my desk until 3 pm. Jennifer Jones, DVM Veterinary Medical Officer Tel: 240-402-5421 DA U.S. FOOD & DRUG ADMINISTRATION From: Freeman, Lisa < Lisa. Freeman@tufts.edu> Sent: <u>B6</u> 2:30 PM To: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov> Subject: _____ - time sensitive Importance: High Hi Jen I also left you a voice message but I just heard that B6 died suddenly This is one of at least 3 dogs in the household affected by DCM eating the same diet. We're actually scheduled to see the 3 dogs tomorrow and to evaluate a 4th dog in the household that has an elevated BNP. So, this is a particularly interesting household. The referring vet contacted me and said the owner is bringing **B6** in for cremation. He will ask if he can get samples for you but we'd need to know what tissues to get, how to store them, etc. Please let me know next steps Thanks Lisa Lisa M. Freeman, DVM, PhD, DACVN Board Certified Veterinary NutritionistTM Professor **Cummings School of Veterinary Medicine** Friedman School of Nutrition Science and Policy Tufts Clinical and Translational Science Institute Tufts University www.petfoodology.org

From: Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u>>

Sent: Tuesday, March 26, 2019 1:50 PM **To:** Freeman, Lisa <Lisa.Freeman@tufts.edu>

508-887-4523

Subject: RE: Cobalt

Hi Lisa,

We based this on the 25 mg/kg diet for chicks, rats, and sheep per Mineral Tolerances of Animals 2^{nd} Ed, 2005 (NRC). The cobalt in the products we tested was below 1 ppm.

Hope you're well,

Jen

Jennifer Jones, DVM Veterinary Medical Officer

Tel: 240-402-5421



From: Freeman, Lisa < <u>Lisa.Freeman@tufts.edu</u>> Sent: Saturday, March 23, 2019 11:43 AM

To: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov>

Subject: Cobalt

Hi Jen,

In the Feb, 2019 Vet-LIRN report, it states that cobalt was tested in the diets and was within normal nutrient ranges recommended by AAFCO. Since Co is not an essential nutrient listed in the AAFCO profiles, are you using the max of 10 ppm that is for all species from AAFCO (ie, the level that "will not impair animal performance and should not produce unsafe residues in human food derived from that animal"?

Thanks, Lisa

Lisa M. Freeman, DVM, PhD, DACVN
Board Certified Veterinary NutritionistTM
Professor
Cummings School of Veterinary Medicine
Friedman School of Nutrition Science and Policy
Tufts Clinical and Translational Science Institute
Tufts University
www.petfoodology.org

From: To: Sent: Subject: Importance:	Freeman, Lisa <lisa.freeman@tufts.edu> Peloquin, Sarah B6 6:32:46 PM FW: B6 - time sensitive High</lisa.freeman@tufts.edu>
Hi Sarah Got a message that Je permission Thanks Lisa	en is out today so wanted to see how we can get samples assuming owner gives
	ary Nutritionist TM
From: Freeman, Lisa Sent: B6 To: Jones, Jennifer L < Subject: B6 Importance: High	2:30 PM <jennifer.jones@fda.hhs.gov> time sensitive</jennifer.jones@fda.hhs.gov>
of at least 3 dogs in the	message but I just heard that B6 died suddenly <u>B6</u> This is one household affected by DCM eating the same diet. We're actually scheduled to see the 3 evaluate a 4 th dog in the household that has an elevated BNP. So, this is a particularly
	cted me and said the owner is bringing B6 in for cremation. He will ask if he can get e'd need to know what tissues to get, how to store them, etc.
Please let me know ne Thanks Lisa	xt steps
	ary Nutritionist TM

From: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov>

Sent: Tuesday, March 26, 2019 1:50 PM To: Freeman, Lisa <Lisa.Freeman@tufts.edu>

Subject: RE: Cobalt

Hi Lisa,

We based this on the 25 mg/kg diet for chicks, rats, and sheep per Mineral Tolerances of Animals 2nd Ed, 2005 (NRC). The cobalt in the products we tested was below 1 ppm.

Hope you're well,

Jen

Jennifer Jones, DVM Veterinary Medical Officer

Tel: 240-402-5421





From: Freeman, Lisa < Lisa.Freeman@tufts.edu> Sent: Saturday, March 23, 2019 11:43 AM

To: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov>

Subject: Cobalt

Hi Jen.

In the Feb, 2019 Vet-LIRN report, it states that cobalt was tested in the diets and was within normal nutrient ranges recommended by AAFCO. Since Co is not an essential nutrient listed in the AAFCO profiles, are you using the max of 10 ppm that is for all species from AAFCO (ie, the level that "will not impair animal performance and should not produce unsafe residues in human food derived from that animal"?

Thanks. Lisa

Lisa M. Freeman, DVM, PhD, DACVN Board Certified Veterinary NutritionistTM Professor **Cummings School of Veterinary Medicine** Friedman School of Nutrition Science and Policy Tufts Clinical and Translational Science Institute Tufts University www.petfoodology.org

Freeman, Lisa <Lisa.Freeman@tufts.edu> From: Jones, Jennifer L To: CC: Peloquin, Sarah Sent: <u>ве</u> 11:13:21 АМ RE: **B6** - time sensitive (cc-297) Subject: Thanks, Jen I think that would be helpful. These obviously happen with no warning so that would be great to have ready to tell vets. Including the option of freezing on that same sheet would be great. These owners wanted to get the body back for cremation so this seemed like the best option. I heard last night that the owners gave permission for sample collection and B6 was going to take the heart and some liver If you could send him a box for shipping, that would be great We'll be seeing the other 3 dogs in the household today Thanks Lisa Lisa M. Freeman, DVM, PhD, DACVN Board Certified Veterinary NutritionistTM Professor Cummings School of Veterinary Medicine Friedman School of Nutrition Science and Policy Tufts Clinical and Translational Science Institute Tufts University www.petfoodology.org From: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov> Sent: B6 7:06 AM To: Freeman, Lisa < Lisa. Freeman@tufts.edu> Cc: Peloquin, Sarah <Sarah.Peloquin@fda.hhs.gov> Subject: RE: B6 - time sensitive (cc-297) Thank you, Lisa. I see Jake sent you the necropsy procedures. Yes, we can work on a prioritized list for veterinarians collecting limited tissue sets. We can also have veterinarians freeze the bodies until we send them supplies (esp. if large intact hearts). veterinarian contact me directly to coordinate the sample collection and reimbursement. Please have

I'll be at my desk until 3 pm.

Jennifer Jones, DVM Veterinary Medical Officer

Tel: 240-402-5421





From: Freeman, Lisa < <u>Lisa.Freeman@tufts.edu</u> >			
Sent: [B6	2:30 PM
		ifer L < <u>Jer</u>	<u>nnifer.Jones@fda.hhs.gov</u> >
Subje	ct: I	B6	ı - time sensitive

Importance: High

Hi Jen

I also left you a voice message but I just heard that **B6** died suddenly **B6**. This is one of at least 3 dogs in the household affected by DCM eating the same diet. We're actually scheduled to see the 3 dogs tomorrow and to evaluate a 4th dog in the household that has an elevated BNP. So, this is a particularly interesting household.

The referring vet contacted me and said the owner is bringing **B6** in for cremation. He will ask if he can get samples for you but we'd need to know what tissues to get, how to store them, etc.

Please let me know next steps Thanks Lisa

Lisa M. Freeman, DVM, PhD, DACVN
Board Certified Veterinary NutritionistTM
Professor
Cummings School of Veterinary Medicine
Friedman School of Nutrition Science and Policy
Tufts Clinical and Translational Science Institute
Tufts University
www.petfoodology.org
508-887-4523

From: Jones, Jennifer L < Jennifer.Jones@fda.hhs.gov>

Sent: Tuesday, March 26, 2019 1:50 PM To: Freeman, Lisa <<u>Lisa.Freeman@tufts.edu</u>>

Subject: RE: Cobalt

Hi Lisa,

We based this on the 25 mg/kg diet for chicks, rats, and sheep per Mineral Tolerances of Animals 2^{nd} Ed, 2005 (NRC). The cobalt in the products we tested was below 1 ppm.

Hope you're well,

Jen

Jennifer Jones, DVM Veterinary Medical Officer

Tel: 240-402-5421





From: Freeman, Lisa < Lisa.Freeman@tufts.edu > Sent: Saturday, March 23, 2019 11:43 AM

To: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov>

Subject: Cobalt

Hi Jen,

In the Feb, 2019 Vet-LIRN report, it states that cobalt was tested in the diets and was within normal nutrient ranges recommended by AAFCO. Since Co is not an essential nutrient listed in the AAFCO profiles, are you using the max of 10 ppm that is for all species from AAFCO (ie, the level that "will not impair animal performance and should not produce unsafe residues in human food derived from that animal"?

Thanks, Lisa

Lisa M. Freeman, DVM, PhD, DACVN
Board Certified Veterinary NutritionistTM
Professor
Cummings School of Veterinary Medicine
Friedman School of Nutrition Science and Policy
Tufts Clinical and Translational Science Institute
Tufts University
www.petfoodology.org

To: Cleary, Michael *; HQ Pet Food Report Notification; B6

Sent: 12/4/2018 11:04:49 PM

Subject: Earthborn Meadow Feast dry: Lisa Freeman - EON-372828

Attachments: 2059621-report.pdf; 2059621-attachments.zip

A PFR Report has been received and PFR Event [EON-372828] has been created in the EON System.

A "PDF" report by name "2059621-report.pdf" is attached to this email notification for your reference. Please note that all documents received in the report are compressed into a zip file by name "2059621-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-372828

ICSR #: 2059621

EON Title: PFR Event created for Earthborn Meadow Feast dry; 2059621

AE Date	11/20/2018	Number Fed/Exposed	5
Best By Date		Number Reacted	4
Animal Species	Dog	Outcome to Date	Stable
Breed	Boxer (German Boxer)		
Age	3 Years		
District Involved	PFR-New England DO		

Product information

Individual Case Safety Report Number: 2059621

Product Group: Pet Food

Product Name: Earthborn Meadow Feast dry

Description: Eating BEG diet (Earthborn) Echo had subjectively reduced contractility; elevated NT-proBNP and

cardiac troponin I Taurine pending Owner changing diet and will recheck in 3 months

Submission Type: Initial

Report Type: Adverse Event (a symptom, reaction or disease associated with the product)

Outcome of reaction/event at the time of last observation: Stable

Number of Animals Treated With Product: 5

Number of Animals Reacted With Product: 4

Product Name	Lot Number or ID	Best By Date
Earthborn Meadow Feast dry		

Sender information

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

Owner information				
B6				
В6	USA			

To view this PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-372828

To view the PFR Event Report, please click the link below:

 $\underline{https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none\&e=0\&issueType=12\&issueId=389797$

This email and attached document are being provided to you in your capacity as a Commissioned Official with the U.S. Department of Health and Human Services as authorized by law. You are being provided with this information pursuant to your signed Acceptance of Commission.

This email message is intended for the exclusive use of the recipient(s) named above. It may contain information that is protected, privileged, or confidential. Any dissemination, distribution, or copying is strictly prohibited.

The information is provided as part of the Federal-State Integration initiative. As a Commissioned Official and state government official, you are reminded of your obligation to protect non-public information, including trade secret and confidential commercial information that you receive from the U.S. Food and Drug Administration from further disclosure. The information in the report is intended for situational awareness and should not be shared or acted upon independently. Any and all actions regarding this information should be coordinated through your local district FDA office.

Failure to adhere to the above provisions could result in removal from the approved distribution list. If you think you received this email in error, please send an email to FDAReportableFoods@fda.hhs.gov immediately.

ICSR:	·				************
	2059621				
Type Of Submission:	Initial				
Report Version:	FPSR.FDA.PETF.V.V1				
Type Of Report:	Adverse Event (a symptom, reaction or disease associated with the product)				
Reporting Type:	Voluntary				
Report Submission Date:	2018-12-04 17:59:30 EST				
Reported Problem:	Problem Description:			d subjectively reduced contractility; ele turine pending Owner changing diet an	
	Date Problem Started:	11/20/2018			100000000000000000000000000000000000000
	Concurrent Medical	No			
	Problem:				
	Outcome to Date:	Stable			
Product Information:	Product Name:	Earthborn Meadow F	⁼ east dry		
	Product Type:	Pet Food			
	Lot Number:				
	Package Type:	BAG			
	Product Use	Description:	See diet history	in records for more details	
	Information:				
	Manufacturer /Distributor Information:				
	Purchase Location Information:				
Animal Information:	Name:	B6			
	Type Of Species:	Dog			
	Type Of Breed:	d: Boxer (German Boxer)			
	Gender:	r: Female			
	Reproductive Status:	: Intact			
	Pregnancy Status:	; Not pregnant			
	Lactation Status:	: Not lactating			
	() 	30.3 Kilogram			
	Age:	: 3 Years			
	Assessment of Prior Health:	***************************************			
	Number of Animals Given the Product:	5			
	Number of Animals Reacted:	4			
	Owner Information:	Owner Information provided:	Yes		
		Contact:	Name:	B6	
			Phone:	В6	
			Email:	B6	
		Address:	7 times and the second	1	
			B6		
			United States		
	Healthcare Professional	Practice Name:	Tufts Cummings	School of Veterinary Medicine	
	Information:	Contact:	, 	Lisa Freeman	

			Phone:	(508) 887-4523	
			Email:	lisa.freeman@tufts.edu	
		Address:	200 Westboro North Grafton Massachusetts 01536 United States		
Sender Information:	Name:	Lisa Freeman			
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States			
	Contact:	Phone:	5088874523		
		Email:	lisa.freeman@t	ufts.edu	
	Permission To Contact Sender:	Yes			
	Preferred Method Of Contact:	Email			
Additional Documents:					
	Attachment:	rpt_medical_record_	preview.pdf		
		Medical records			
	Type:	Medical Records			
	Туре:	Medical Records			



Foster Hospital for Small Animals

55 Willard Street North Grafton, MA 01536 (508) 839-5395

Client:	DC
Address:	B0

B6 Home Phone: Work Phone: (Cell Phone: **B6**

All Medical Records

Patient: **B6** Breed: Boxer DOB: **B6**

Species: Canine Sex: Female

Referring Information

Client: Patient: **B6**

Initial Complaint:

Scanned Record

Initial Complaint:

New, boxer 2-3 murmur. ok per **B6**

Initial Complaint:

Recheck **B6**

B6

Initial Complaint:
Recheck - B6

SOAP Text Nov 15 2018 2:01PM -

Disposition/Recommendations

Cummi	ings	
Veterinary I	Medical	Center

Client:	B6	
Veterinarian		
Patient ID:	B6	
Visit ID:		

Lab Results Report

Foster Hospital for Small Animals

55 Willard Street North Grafton, MA 01536 (508) 839-5395

Patient:	B6
Species:	Canine
Breed:	Boxer
Sex:	Female
Age:	B6 Years Old

	11/15/2018 3:35:43 PM	Accession ID: B6	
Test	Results	Reference Range	Units
Troponin I Research - FHSA	В6	0 - 0.08	mg/dl



4/111 **B6 B6**

Printed Tuesday, December 04, 2018

Client:	D6
Patient:	ВО

Referral and records B6

B6 B6



REFERRAL FORM

TAFTS NEW ENGLAND VETERINARY MEDICAL CENTER
Heavy and Lois Frones Hospital for Small Animals
Hospital for Large Animals
1900 Weathorn Road, Reads 50
North Grafess, MA 401506
508.6808.5855

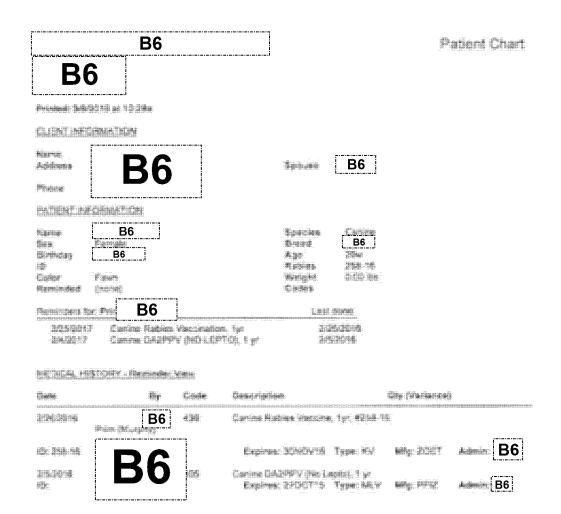
Survice to White a Reference	· · · · · · · · · · · · · · · · · · ·		E	36	***************************************
CHARLESTON					
ъщ. В 6	Dagane Prope	B6	T. T	Superi y	
Accimina. B6	OREIGNISSISSISSISSISSISSISSISSISSISSISSISSISS	В6	2, E	36 дреж В	6
PATTE STEEN FRANCISCO		***************************************			***************************************
Training Manager B6		***************************************			
Sales CALINE		Principal Company	500	Marine Zone	
LASS RESTORY	**************************************		***************************************		
Clint Constant Provinces Tim	seen Indika IIn				
Commission LVV Z	24/14 DAZP 3				
Cather Mission .					
(Augustala Tru Brundu (L' panal	de, plome and cond				
tre Conjeggagii vertiongii 🔥	Ġ.	***************************************	***************************************	oggai sondogelesses selescom oppositione	
Сантисти Тэмэгүн Ж. Мейкеликы					
W	v v v				
'quantai Cartane ma Keiparata		DETERMINATION TO THE TWO THE TWO			
HEFFERING VITTERINARIAN	DEPARTUS				
	Clairline		B6		
B6	Fas	B6		W. W	
A646	Chr.	B6	State B	6 . E	36
if an account is boung referred	which has been let w	ork done at TV	/11:7 p ./m.ess : re-	ute copies of the la	

If an assigned in being referred which has had lab work done at TVDL please include capies of the lab results of the TVDL accessors ourshor. If you are facing as information about a clinical case which has been collected, please one facing an information about a clinical case which has been collected, please one facing the macrober (503) 526-7261.

Client: **B6**

Referral and records B6

B6 B6



100

Client: B6 Patient:	<u> </u> 			
Referral and records	В6			
V # \$\$ 74 04 14a	B6	<u>B6</u>	(4) (2) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	

B6

Referral an	d records	В6	
Patient:	DÜ		
Client:	DG		

В6 В6 Mar CB 14 DA 15g p. 4 **B6**

Page 8/111

l and records-	В6	
March 18 04 18c	В6	B6
		B6

l and records-	B6		
Mar 06 14 54 17s	B6	B6	p.#
	R	6	
-			

Page 10/111

Signed consent



Hamilian Abraham Hamilian Hamilian Barani mang Camur Hamilia

B6

STANDARD CONSENT FORM

I am the owner, or agout but the purion, of the above described in analysed have the authority to some an possest, if benefy puttings of the Commission of Medicine at Tuits circumsty (benefy after Commission Arthrophics) property of a Kill and authority architecture to the Commission of a set authority architecture to the Commission of the Commission o

Community Scheool and fig officers, agreeds and projetopens will possible sizely outpropary loading sare as they deems to a complete level agreeding market (for colours) according

Commongs School and its officers, against, and employees will one of respondible care in the programmed of the abstraction of the second property of the policy manufacture of that story oction or arey demand that may envelop as a result of the same and treatment demands.

considerational (Age the advised several lead account transplant to providing the formula of another to addit that paper almost what decreases of Community Methods by the Community of Community Methods by the Community of the C

in macuting this forms, I havely suggested, sistemakedge that robs, benefits and attermed to true of improved have been explained on the Tomberdayed said explaination, and a prisoner's provincement. Should any additional transforms on the properties of the required during the communication of any amount, I recognized that I will be given the apportunity to discuss and common to these additional proceedures. I understand that further us additional transformational proceedures. I understand that further us additional transformation of any life throughout and compile server by may at the case of the development of any life throughout and compile server by may at the case of the development of any life throughout and compile according to the server of the development of any life throughout and a process of the parameters.

If any equipment to be added to account it will be prespect with the profession of the Commence Subject assumes we transfer that y has any loss of equipment that reverse car.

Lagracity picking the assimilated realised that the realistic release.

on the around the annual is not justed up, and if here \$100 stays have required these a regiment better man beed to the authorize place and the property in the property of the property of the property of the standard may be said of information standard man and the property and the property of the standard man and treatment that property and treatment and property of the standard property and treatment and property of the standard and treatment of the standard and treatment of the standard property and treatment of the standard and treatment

I have many greaters of the Communing Service of Veneziana and Ender and Landers of the Community reported to provide an Communing Service, and an appeal and landges (the Services) the envisor agent to provide any or the forest of the envisor and report to provide any or the forest of the envisor and reported and provide and or the forest of the fore

Signed consent

I sonderstand that a FAMANCE CHARGE will be apprent to all accounts unpart after 30 days. The FRANCE CHARGE is Jumpsted on a reactify rate of \$20% per receipt, which is an abusing percentage rate of 1005 applied to the assistance. daily balance outstanding with a minimum fee of \$.50. I do further agree that should any payment, or the full amount of the sam stated above, become swendur more than 20 Bigs from the above agreed open time of payment or payments, the entire bulgace shall be considered in default and become due and payable. I further agree to be responsible for any or all collection agreey and/or attorney from encountry to collect the Tull amount. I do further agree to comply with hours of visitation to conjunction with our insupital's policy. These road, understains, and agree in account the terms and coodstons herein. Dwwer's same Date: **B6 B6 B6** Owner's Addr **B6**

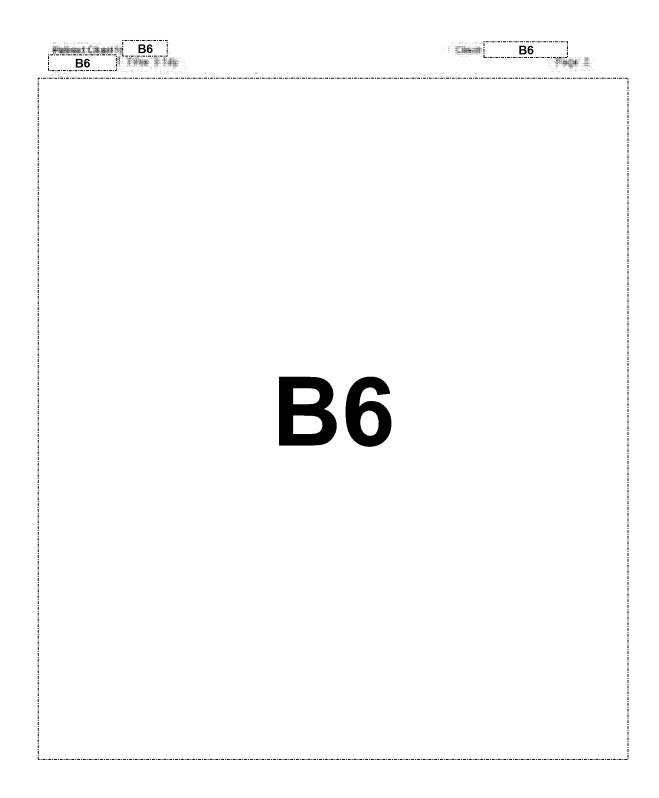
If the individual admirting the animal is someone other than the legal maner, please complete the portion briow:

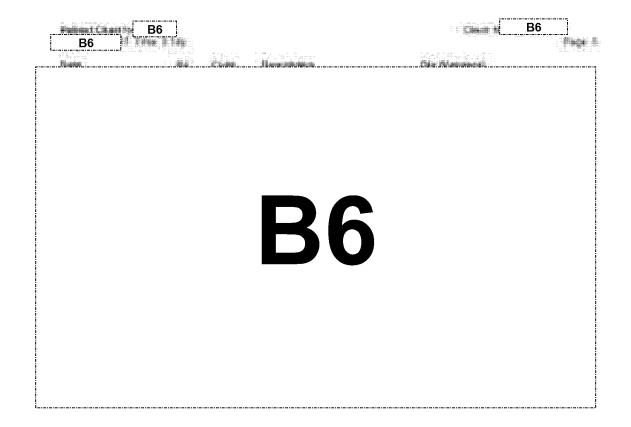
The owner of the owner to pay the securitied above	HOME B	6 sa gran el servicios provid	inted mis authority to obtain resolicat real at Committings School pursuant to	Destroyer and to book the terms and conditions
Authorized Agen			Agent's Squabure	
Street Address			License	
TownyCity	State	70		

Client: **B6**

rDVM B6 records 1/8/16-5/30/17

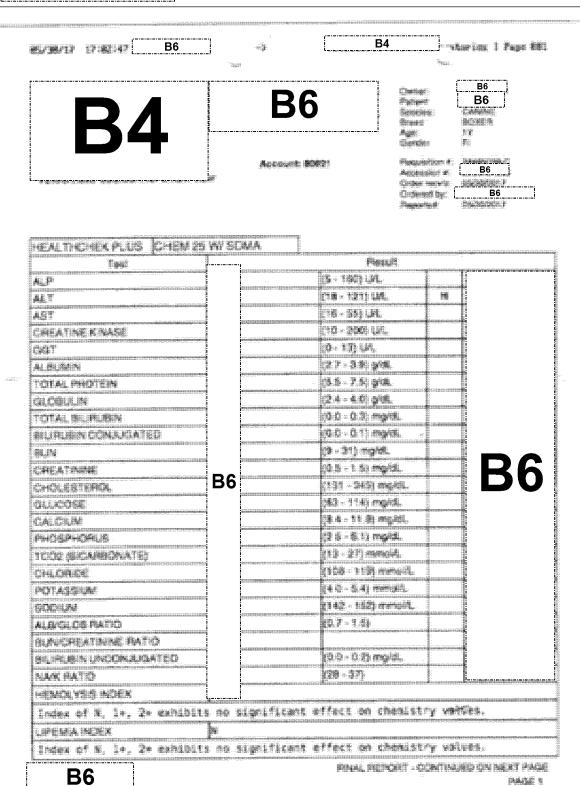
	B6		Fallant Chairt
	B6		
CLE IT PHILA	Lea (
	B6	B6	
PROPERTY AND ADDRESS.	**************************************		
	B6	Spire to Committee Committ	
	B6		
10 COM (10 PM ACON (20 PM ACON	Camera Pictura de Marchander, Tyr Camera Dicturer, Biol Le Ffico, 1-ja Camera Morandera, Cacinello de Camera Morandera, Cacinello de Camera Morandera, Camera de Camer		
		36	





Client: Patient:	Rh	
		·

rDVM B6 Chem 25 w/SDMA, CBC, T4 5/30/17



14 B6 B6 B6 B6

B6				
B6	Chem 25 v	v/SDMA, C	BC, T4 5/30/17	
	₿		B4	viorina i Page 1281
		(Model)	- Manual	r
Arman dar	••••••••••••••••••••••••••••••••••••••	D.C.	The Market I	
SCALA		B6		B6
BOTH SOMA AND function is li other evidence			ALFERINCE INTERVAL which late uninelysis and cent;	Locicates Aldrey To there is so
PIEALTHCHEK P.	US CIKI GOWT	EHE WORL		
T.p.s.	ı		. Acad	r
MEL			Benzara, I	
rext			[323 - 637] M.Z.	***************************************

Man I			2008 - 100 EN SA	
WEV				
1.00 (34-1)	_			DC
N. RETIGULOX:YEE	В	5		B6
Peritari Parrie			(10 - 110) AVAL	
THE CHILD PROPERTY OF THE CONTRACT OF THE CONT			75.	
MILTAPPHOOFIE	***************************************		15.	
A WINXYTE			1.	
s rockwone.		filment land to the same state of		
PATIATI	<u> </u>	<u>!</u>	(143 - 440) KML	
	· Daniela i varan je a je	·-		
		£7. w		
			THE BUILDING	
LYMPHOCYTE			7 t 2002 - 14 00 (2) t pi	· ·
2.642.00-00-0	B	3	(430-1460) (72.	B6
# CHINEDP-EL			(70 - 1440) A.E.	
G49524E _c	***************************************			
Facilities of the Control			7.11.Wei 1999	
MEALTHERES M.		***************************************		
figure 1	·			
T4 Interpretive sa		36	(1.5 - Automate) L	B6
-1.6 Lo- L.0-1.8 Normal -1.0 Normal 2.1-5.4 Theray				
Degs with mark	isisel niga ef	logaza ldagara	alsa was results within	ta _e

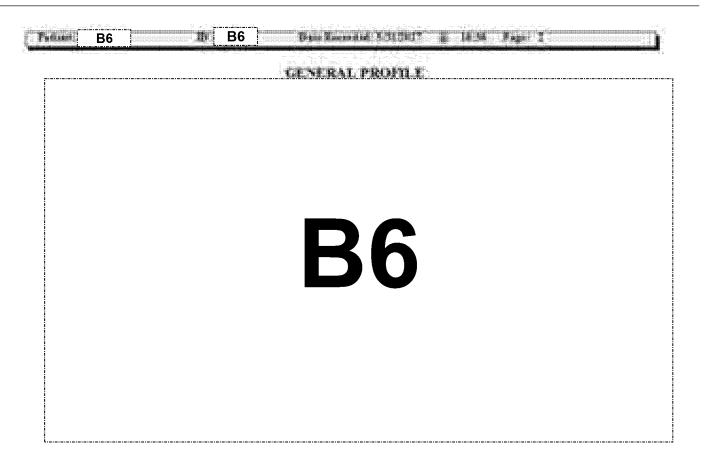
В6 基準 В6 MOSTLELL CAMPA Client: **B6**

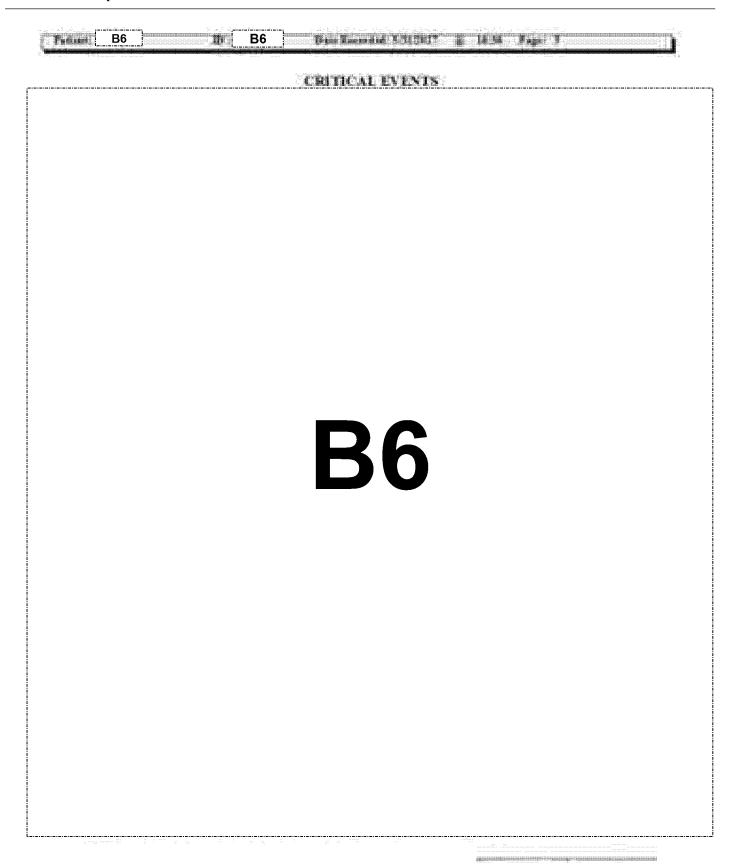
rDVM B6 r Chem 25 w/SDMA, CBC, T4 5/30/17

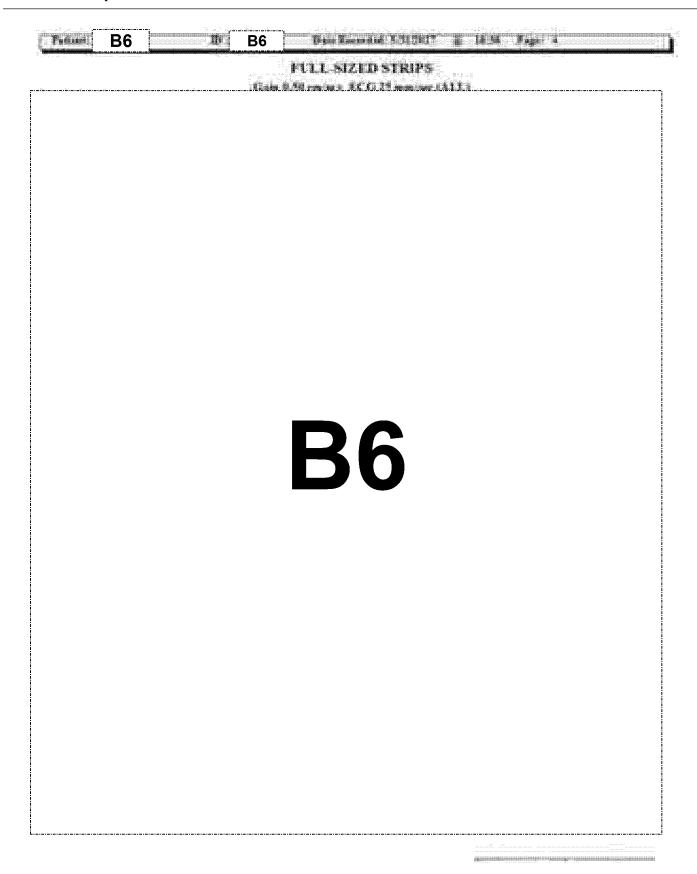
mormal reference range are likely authyroid. Dogs with low Td concentrations may be hypothyroid or 'esthyroid sick'. Occasionally, hypothyroid doos can have Td concentrations that are low sormal Dags with clinical signs of hypothyroidism and low or low sormal. Td concentrations may be evaluated further by submission of free Td and comine Tam. A high Td concentration in a clinically normal dog is likely variation of normal; however elevations may occur secondary to thyroid automatibodies or rarely thyroid meeplessa. For dogs on thyroid supplement, acceptable 4.6 hour post pill total Td concentrations generally fell within the higher end or slightly above the reference range.

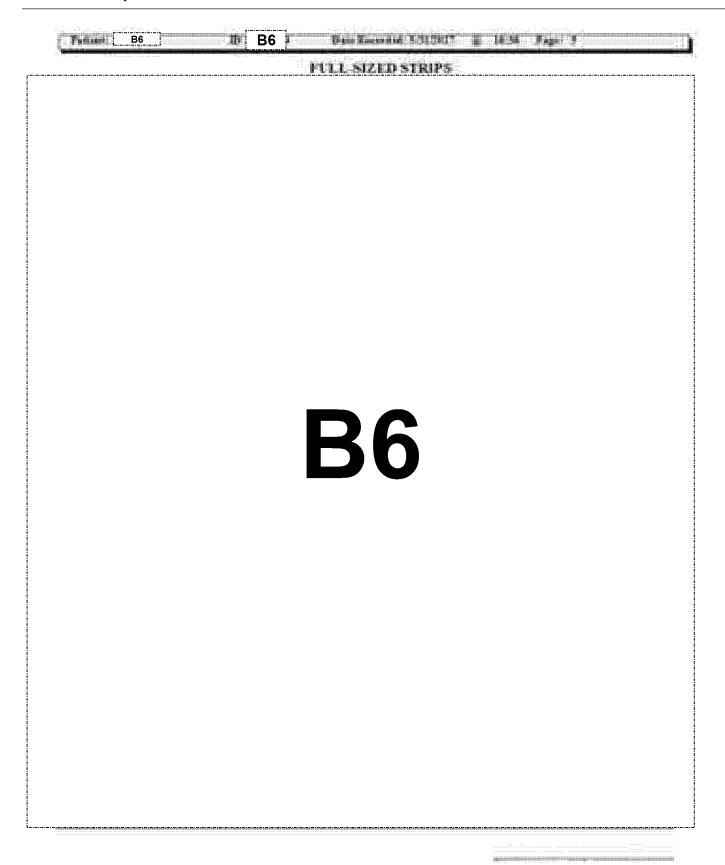
B6 B6 B6

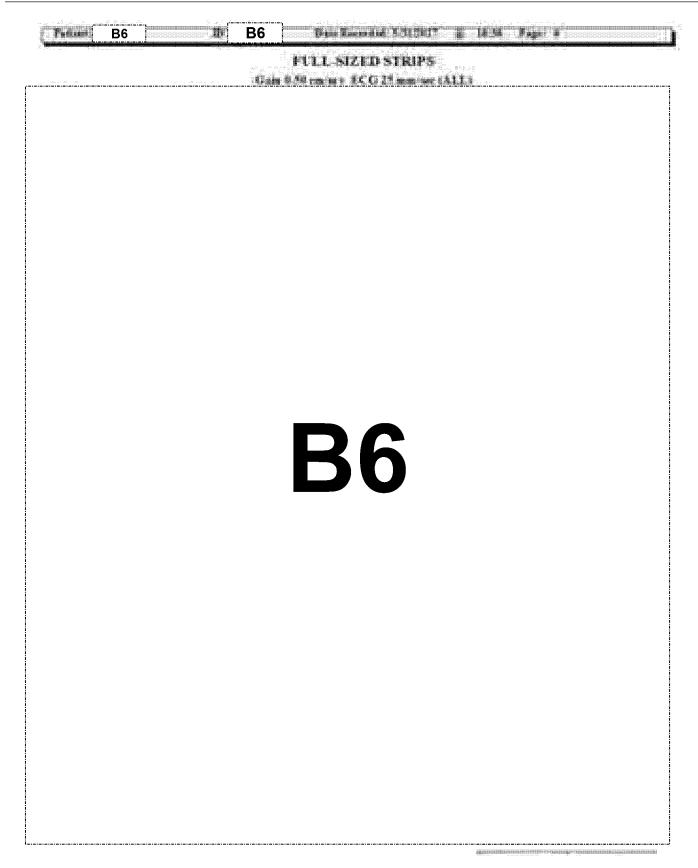
A-000000000000000000000000000000000000		
	Hou	TER MONITOR REPORT
Patient hisme Date of Birth: th: Age: Sex: Analysit	B6 B6	Interp Physician See Number Date Recorded: School F ap 16 to Date Processed Account Recorder Islant B6 Hookup Tech
Physicism indications	taw	Medicational
		B6

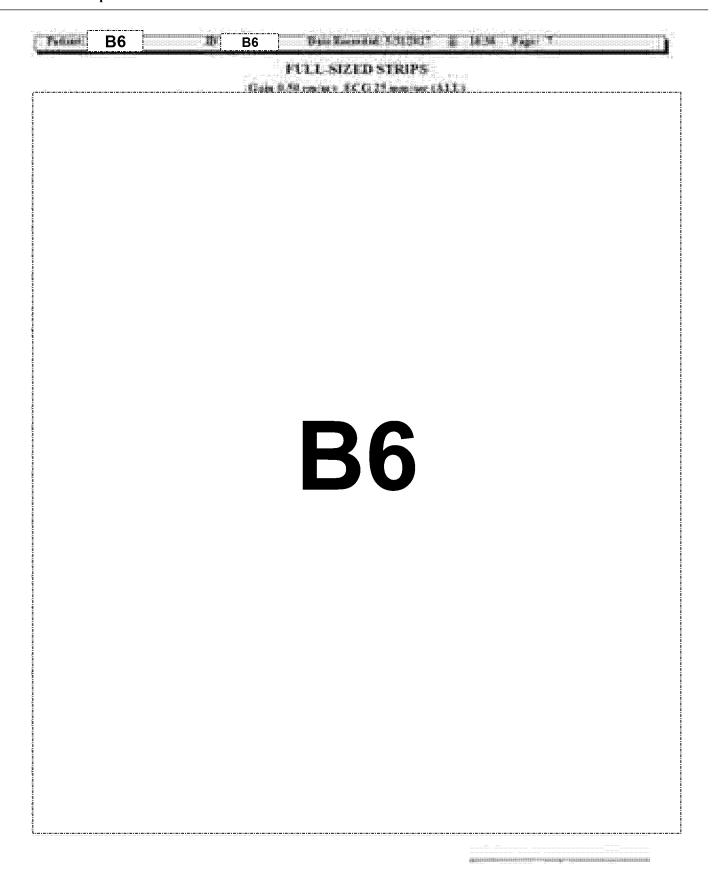


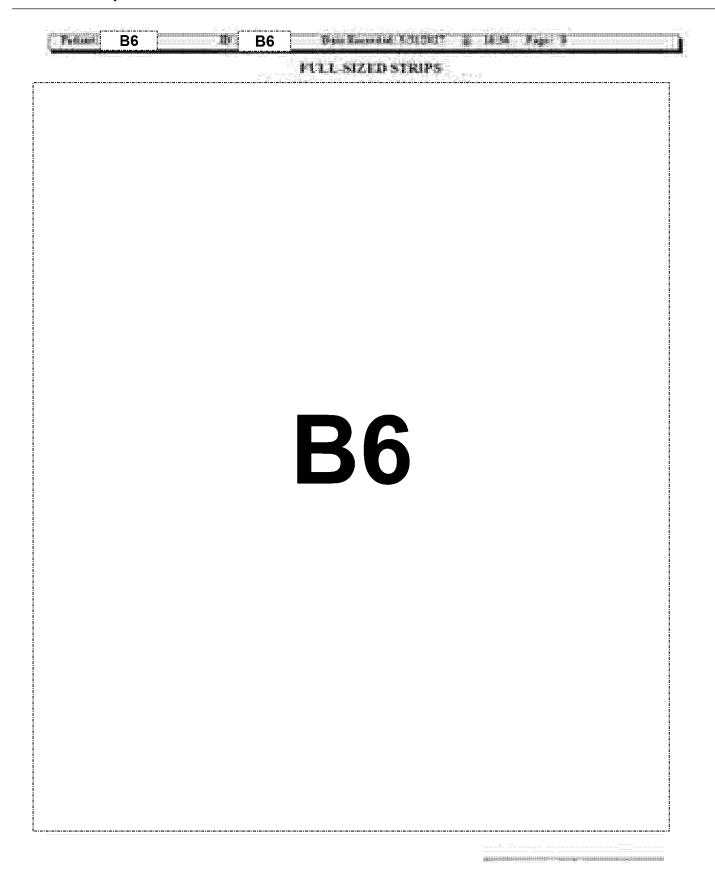


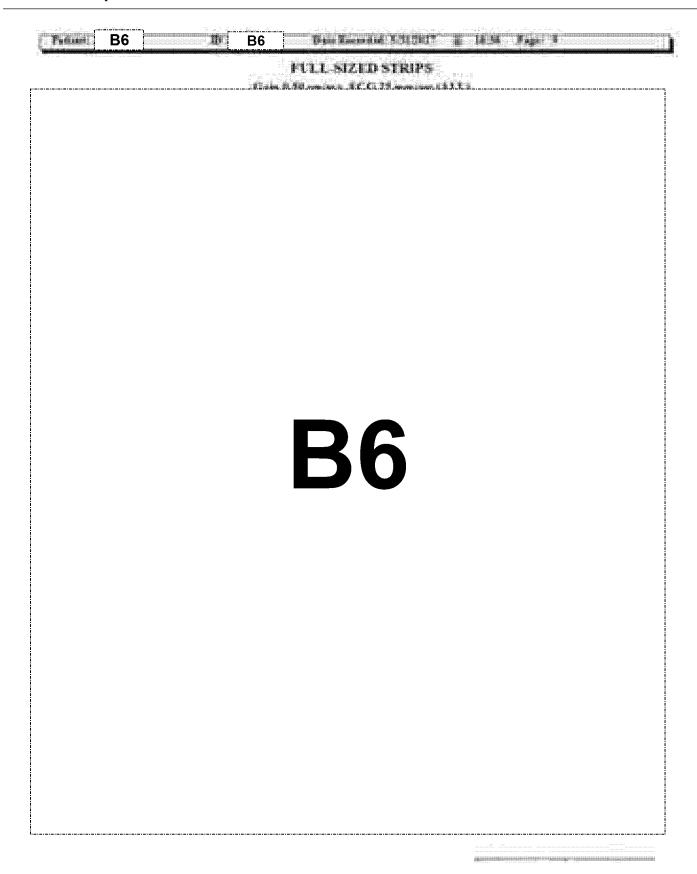


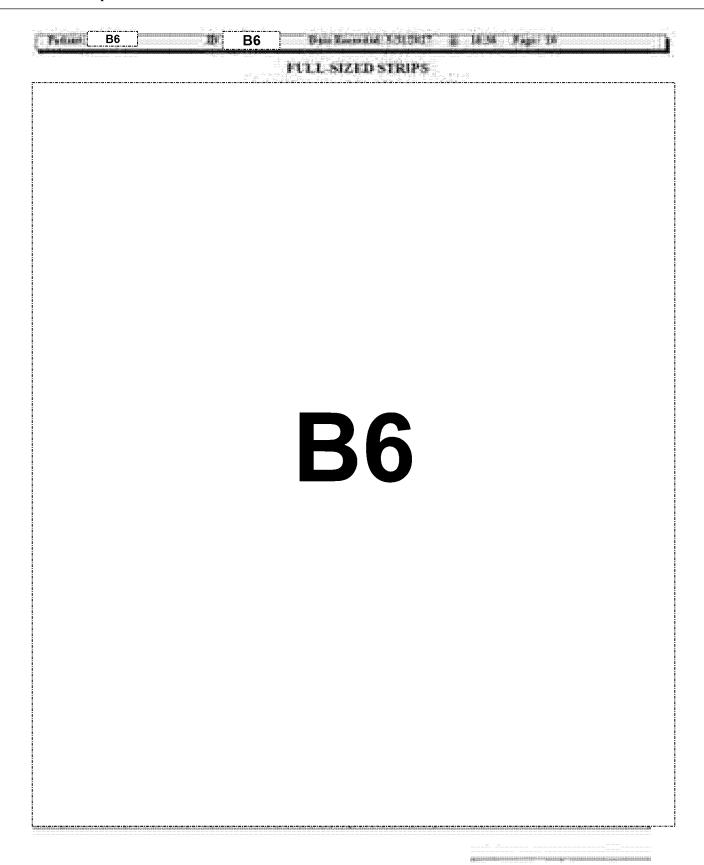


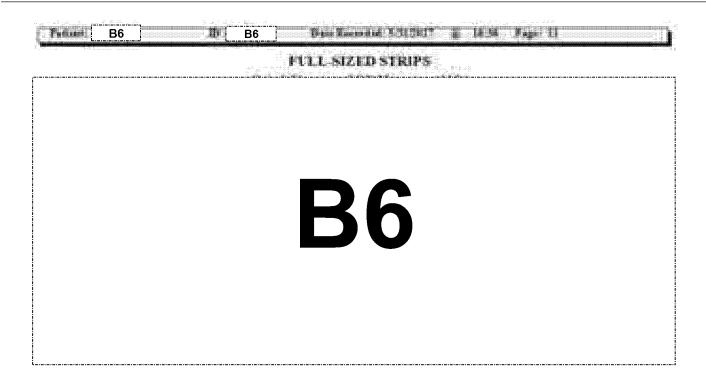












B6 B6 B6 _{B6} В6 В6 Chart * Cala seen В6 В6 **B6**

Page 30/111

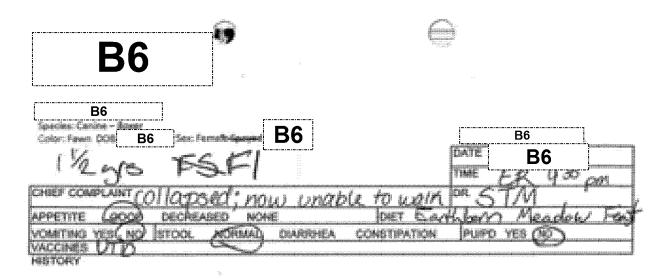
Pega Laf L

Client: B6 Patient:		
В6	visit B6	

B6		36		
Discharge Instructions for	B6	B6 = B6		-X
B6 Final Diagnosis: Aortic Hypop B6 came in terioph for an	episode of cotapse that			cry of acrosic
and the second of the first first the meaning that are not become fully and an in-	and her blood pressure t with your cardiologist in behavior, or change	ka mendadan Net	r	
Thank you for entrusting us will questions or concerns please do	B6 care. She is a o not heritate to call.	uch a sweet girl and	we wish her the best! I	you have any

B6

Client: Patient: B6 visit B6



- auritic hyperplasia-Tuffs
-

				na 1401 Machta	nichens/ afiens
	A B		HOW THE THE CONTROL		
	TV				
2. 					
	B6			В6	
	Pag	e 32/111			

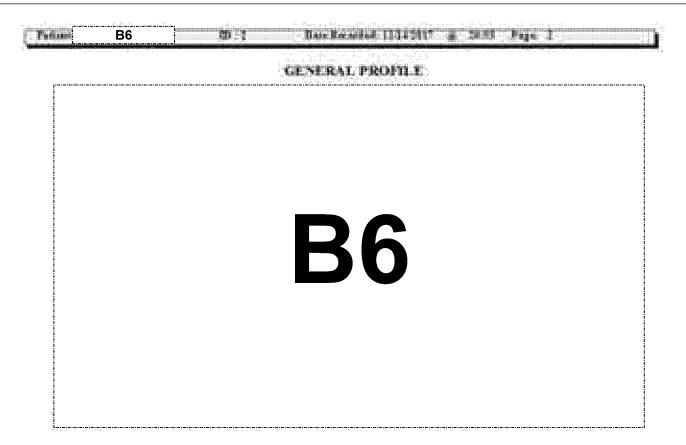
Client: **B6**

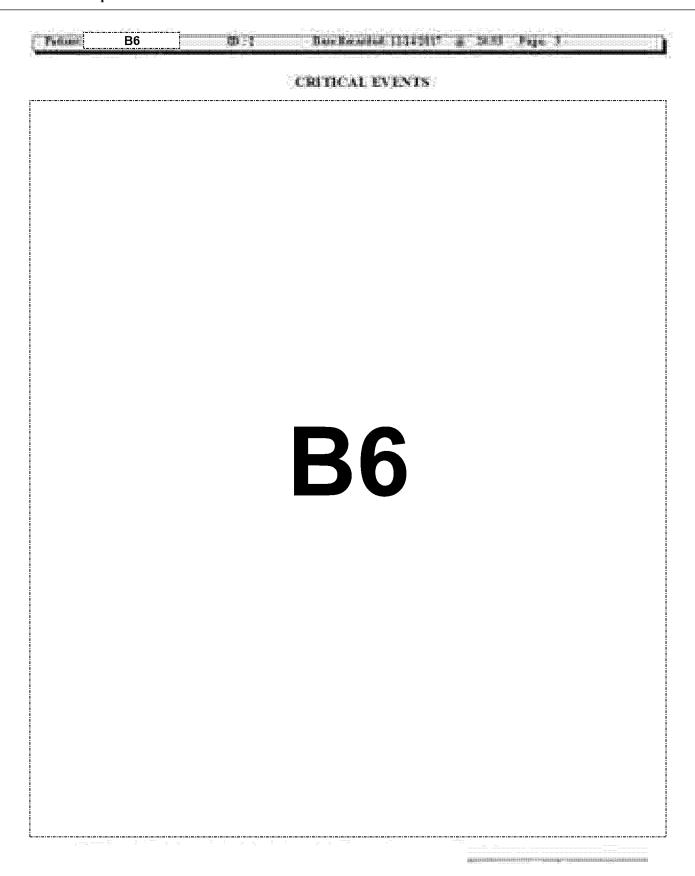
	i ı	
B6	visit	В6

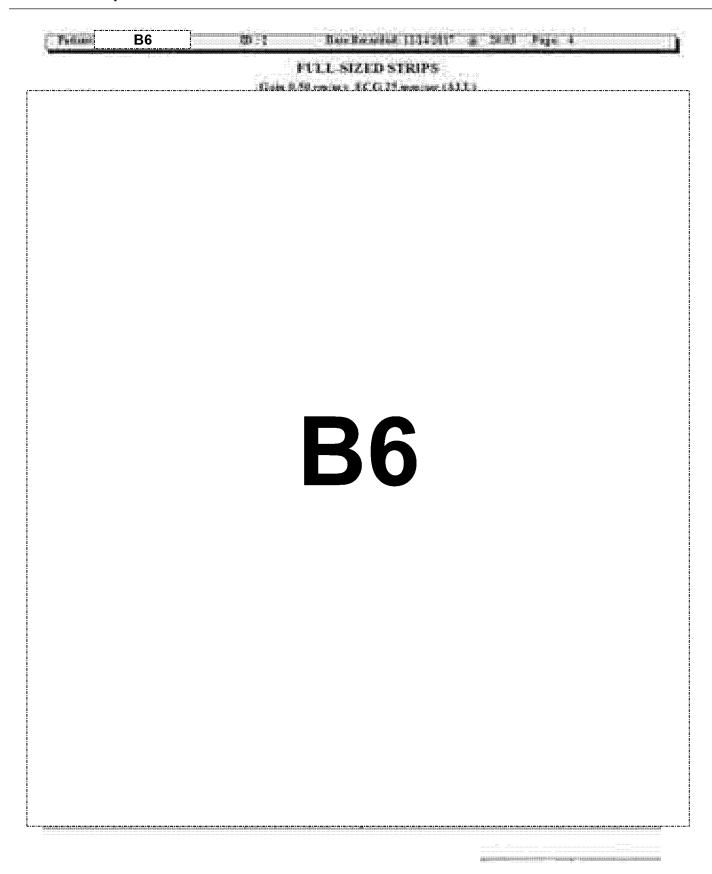
		*		¥1	Accining		
t Central Apparatus	ЖE	4 Mucous Membranes		T Lynnych Harrison	NI I	10 Personalisa	۸O
14.	H	16		I G gessen			* O
3 E.M.	M []			M	N I	12 ()	M III
a 400	i).	INT AR KO				13 Endocine	NE NE
Pain (0-10) Localized to: Chronic or Acute Last Pain Score					Œ.	O B B	
Initial PE Vists T-S EERT: Also restell Close HAT: No many	DESCRIPTION OF PE ABNORMALITIES: Initial PE: Visit: T-SALE P-100; R-20; W-24 kg CRT -2 sec EERT: Mucrous resemblement pink, model for occurs or ratial decharge. No breign resterial is enforced manus. Ears here of decharge AU HE, No resemble or setty floride, pulses strong and synchronicus. Numeral despitation ratio and effect. Lipplant Electrics and end and to the decharge floride. Unplace Electrics and end and to the decharge floride.					かりがり	りる
Abo Solt Publisher Integration				**************************************		KHISAL VENT	į. J ΣL
CAS: BAX. BCS: 64 CSU Pale I	No miun			Felina (Upper 4		E)	
썦				District (
						Floque Rad Streets Tartes Cologiyatis	
E	36	3		B6		Leona Teeth Stroken Toeth Missing Teeth Feline Rescriptive L Other	
				שע	***		
			1000		· · · · · · · · · · · · · · · · · · ·	d war	

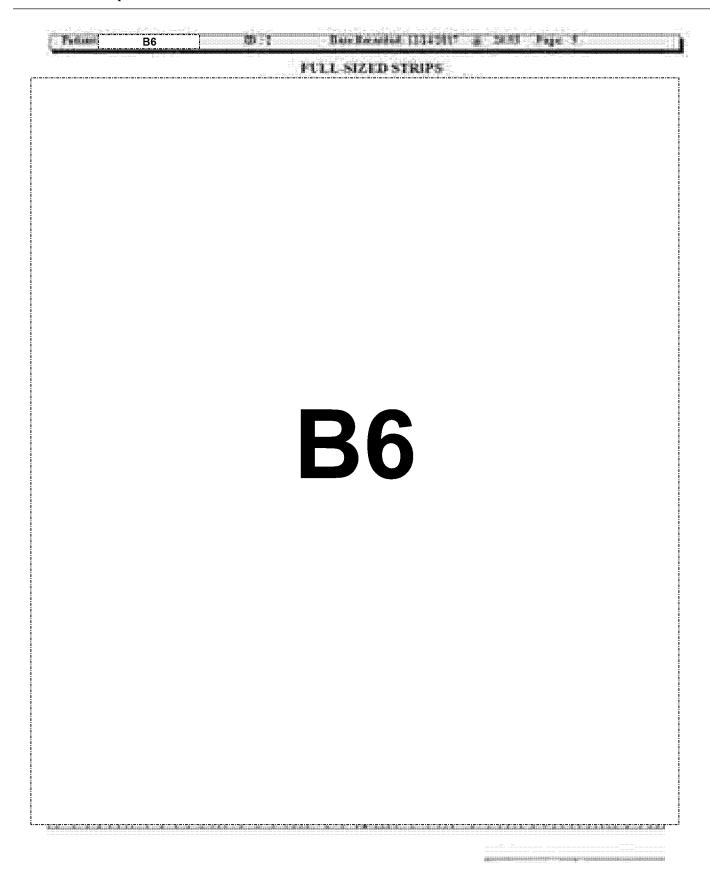
Page 33/111

CANINE HOLTER MONITORING REPORT HOLTER MONITOR REPORT B6 intere Physician Patent Name: Cata of Birth: Scan Number ininggest of being comedesty er: Case Recorded: Age I. TREET Okto Processed Reconfer loans B6 See. A californit Mostking Teather Preprinciple. **B6** indications. Medications: **B6** Physiologic Signature

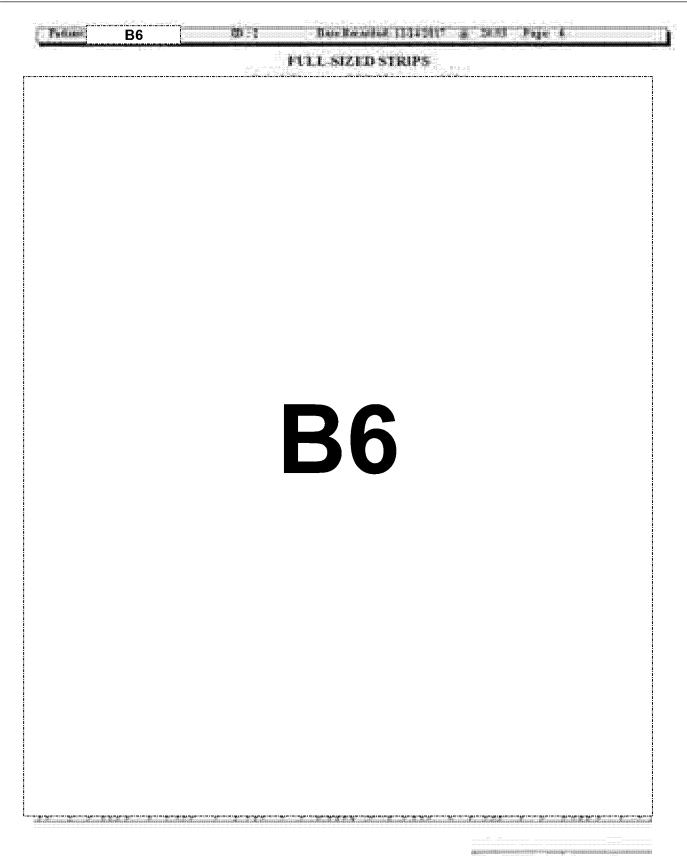


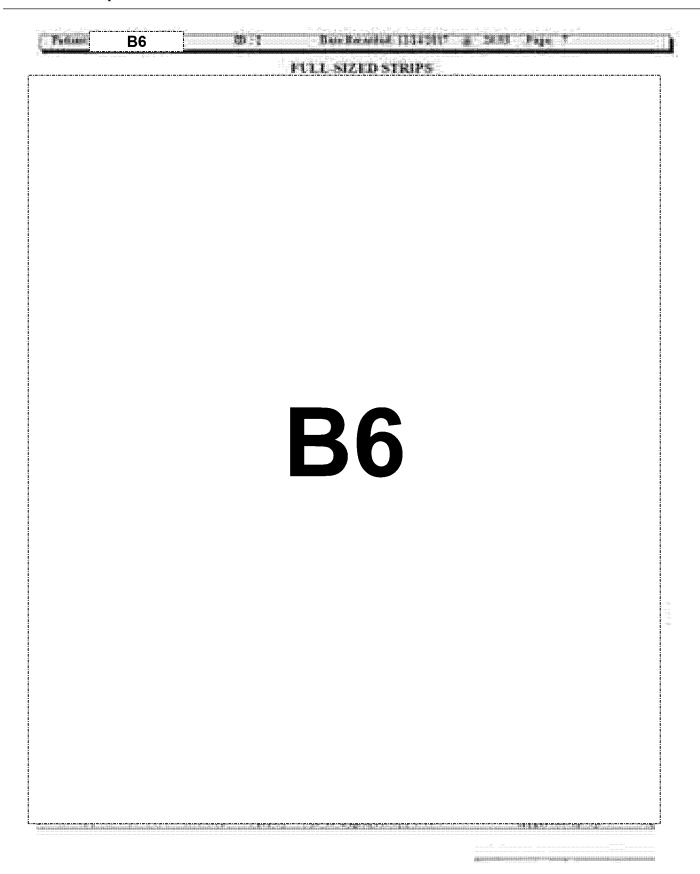


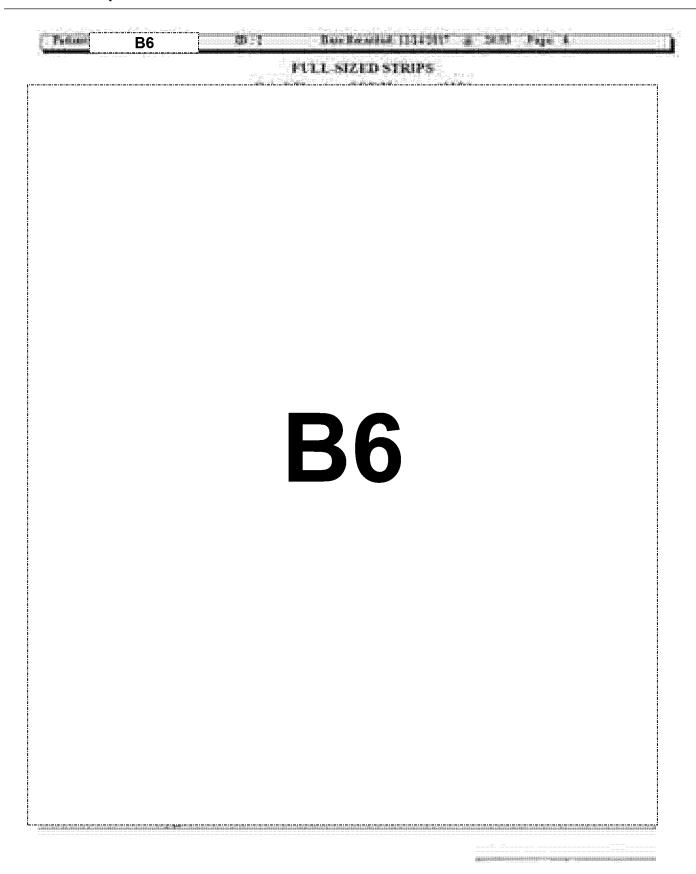


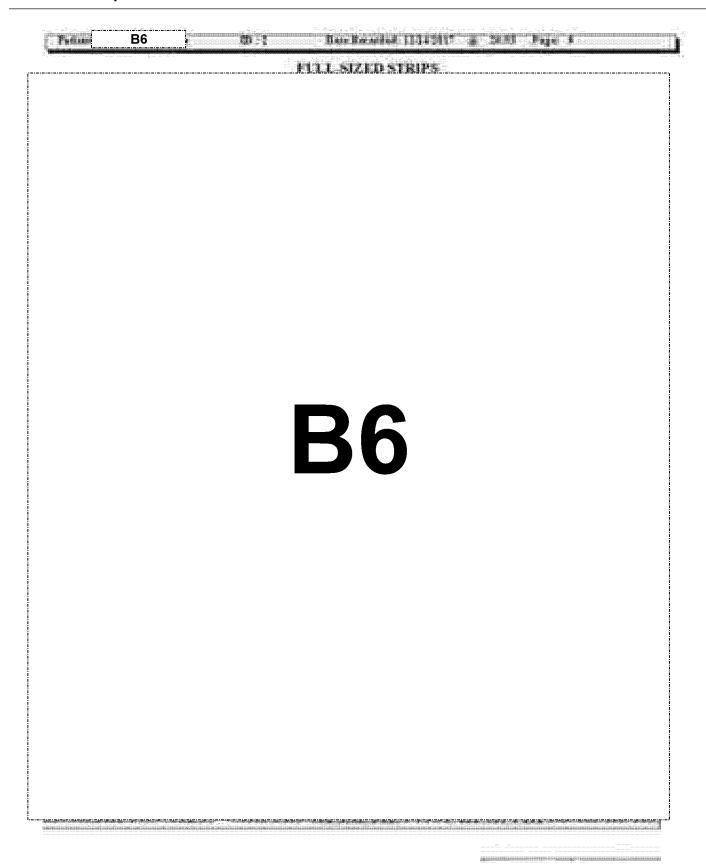


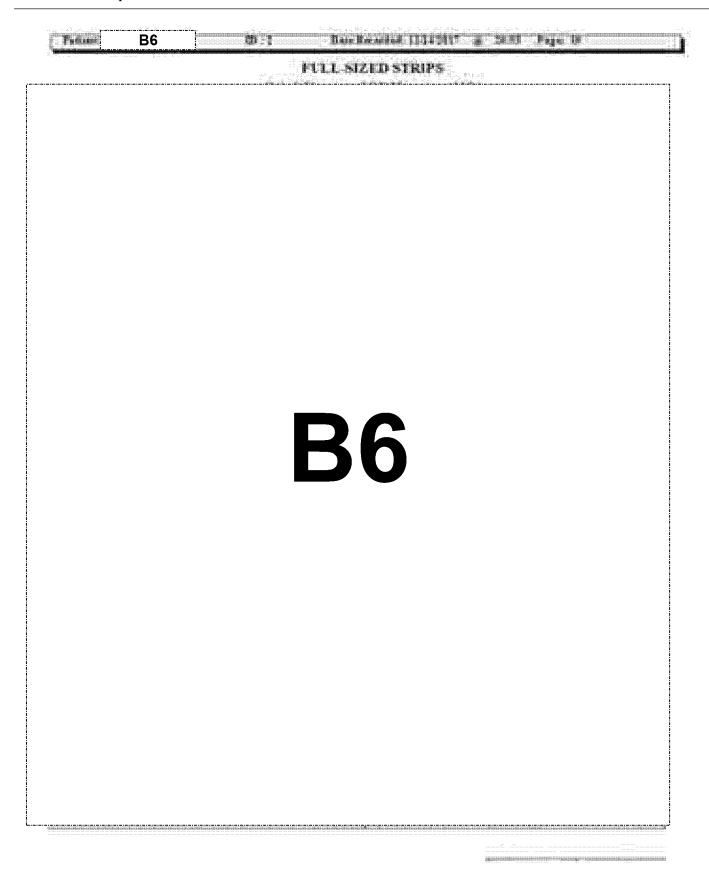
Page 38/111

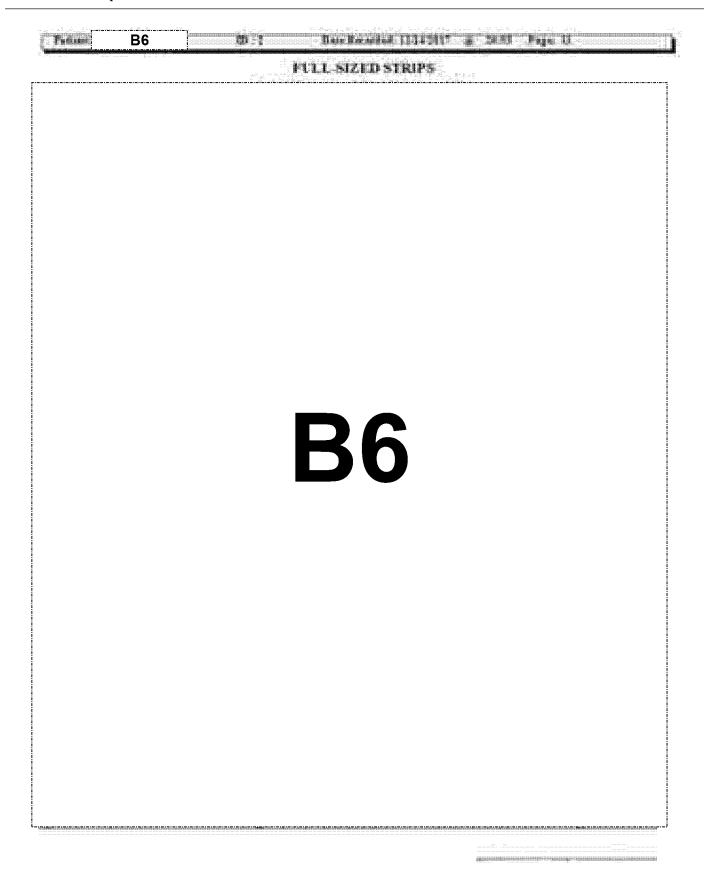




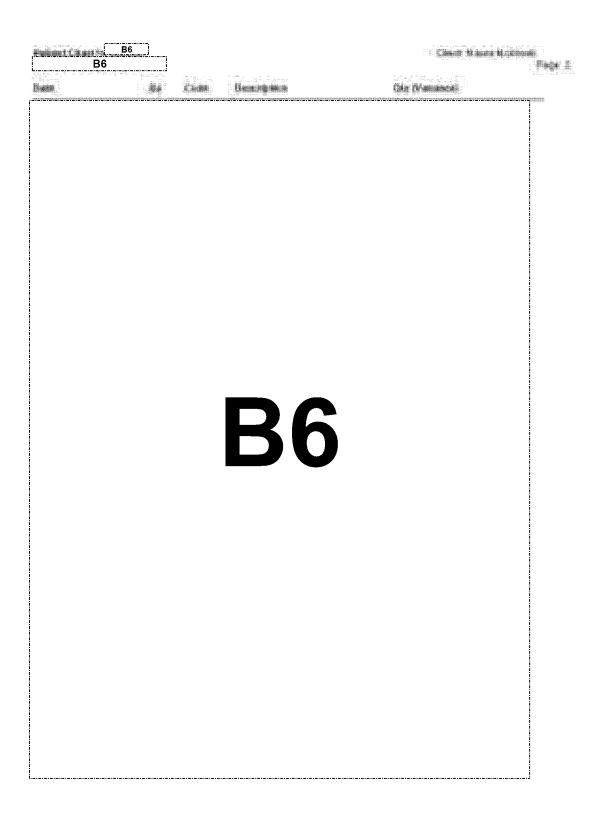


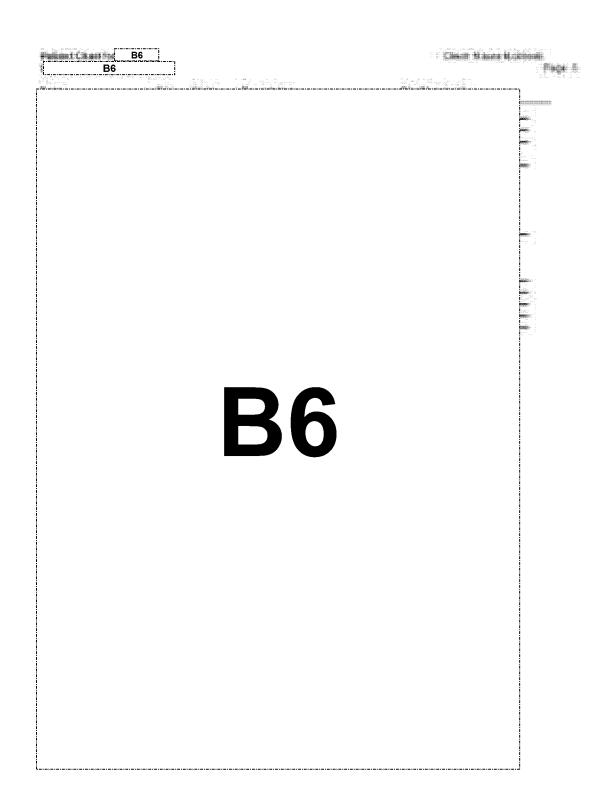




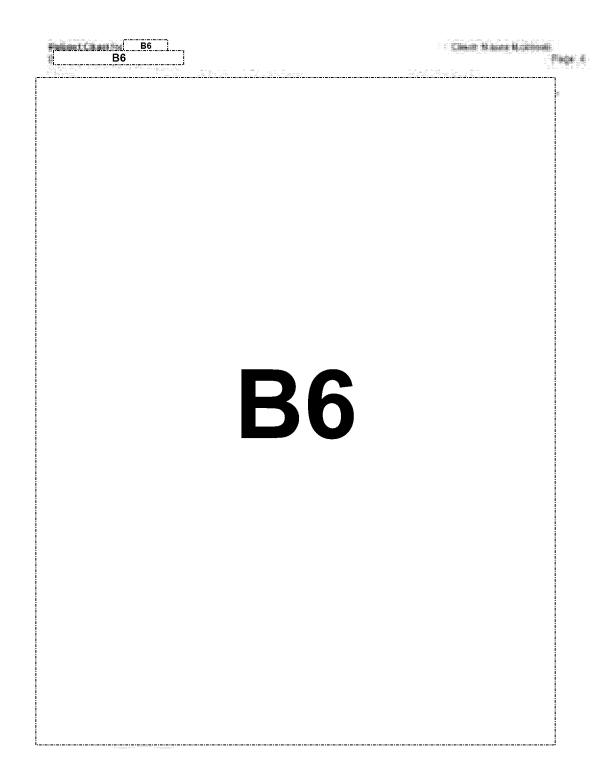


B6	
B6	
CLACITE PARCHIMETICAL	
B 6	B6
B6 B6 B6	
B6	
TEMERON CAMPA REPORT DA LE FILL THE SERVICE DE LE FILL THE SERVICE DA LE FILL THE SERVICE DE LE FILL THE SERVICE D	
Care No Communication	e Gala (Cramanus)
	36

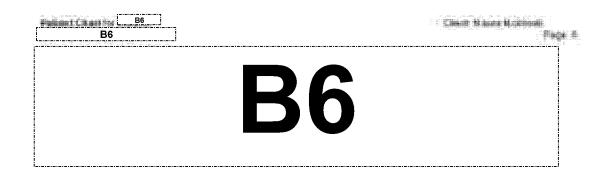




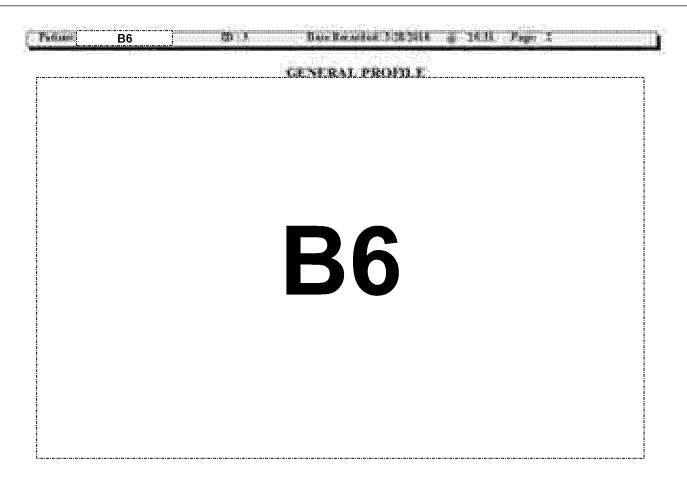
Page 47/111

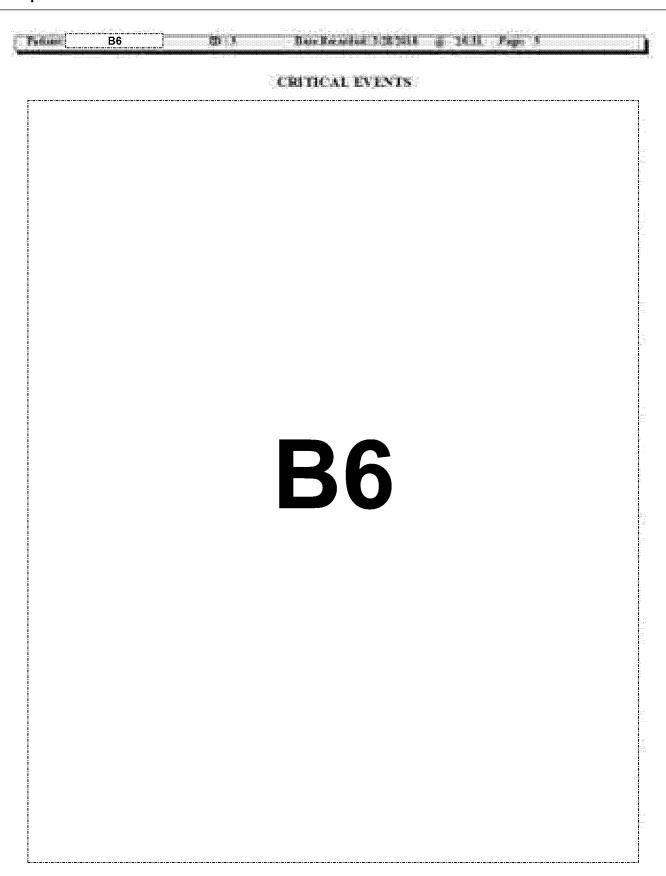


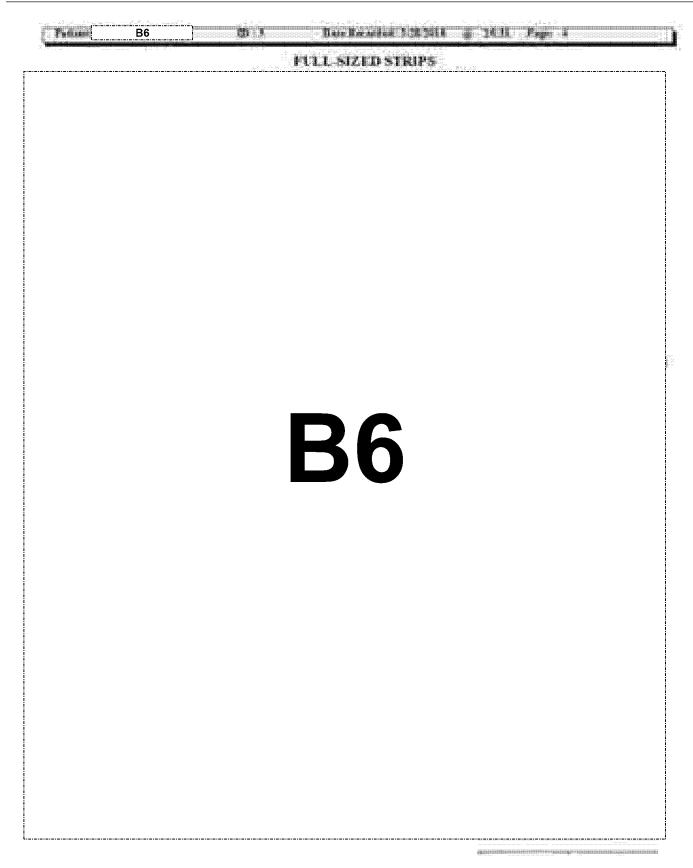
Client: Patient: **B6**RDVM - B6 - Hx, Labs, 1/8/16 - 6/20/17

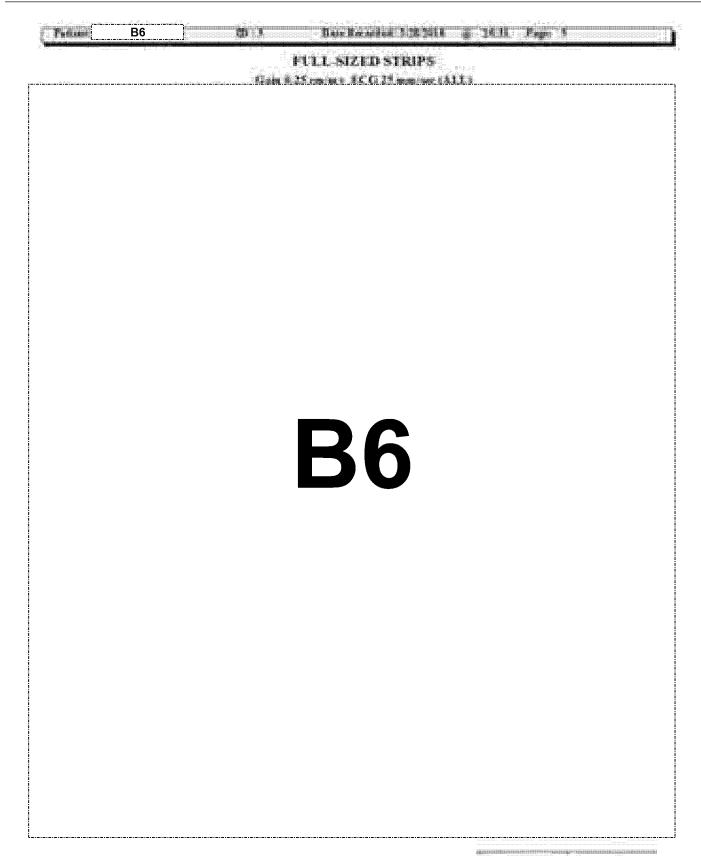


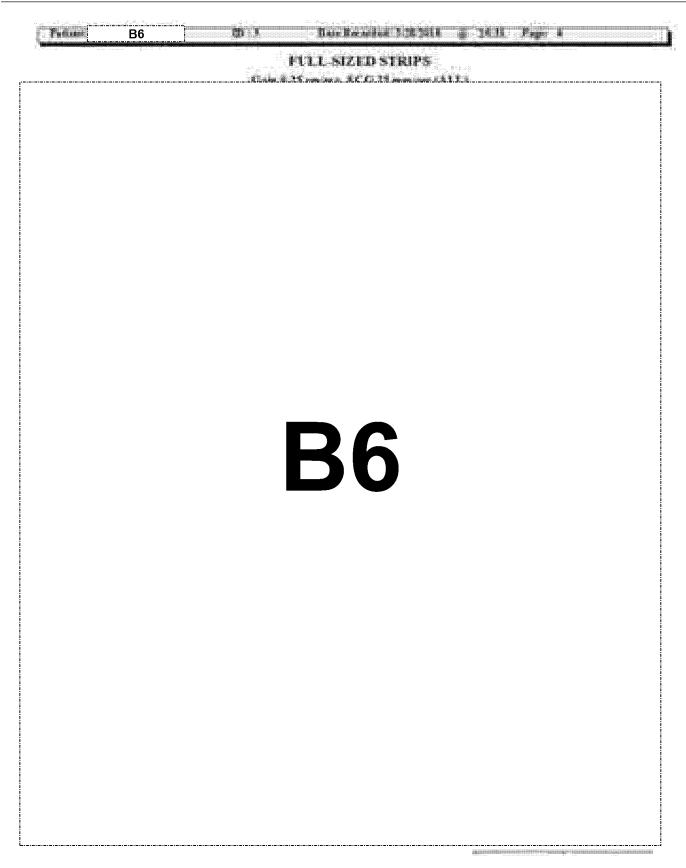
CANINE HOLTER MONITORING REPORT HOLTER MONITOR REPORT **B6** intere Physician Patent Name: Cata of Birth: Scan Number er: Case Recorded: L Yearn Age Disto Processed 3/96/2018 **3 e**et Recorder loans an than A californit Montag Tech Preprinciple. initications. **Bugar** Medications: **B6** Physiologic Signature

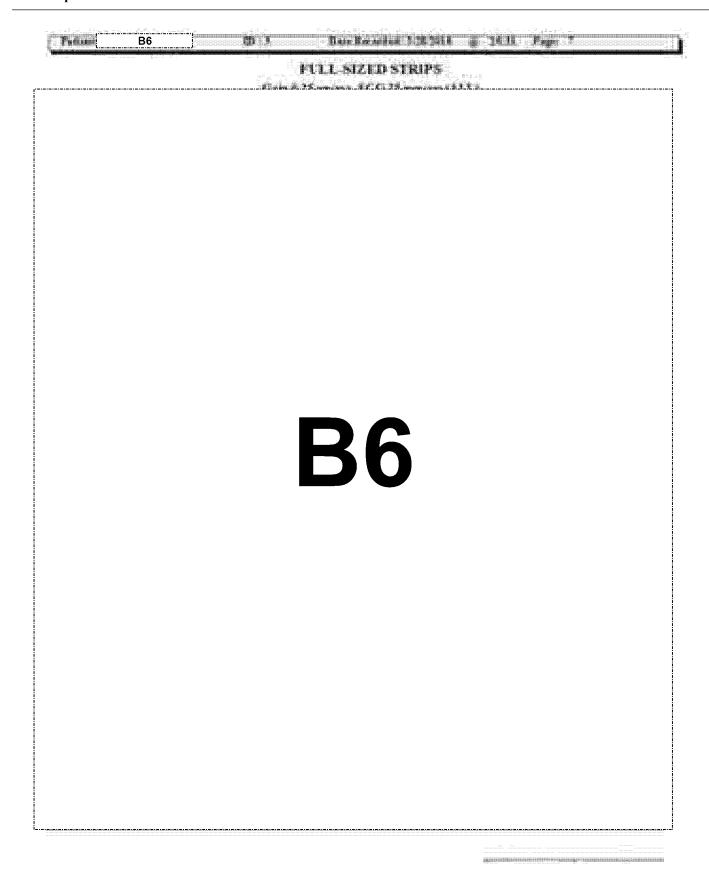


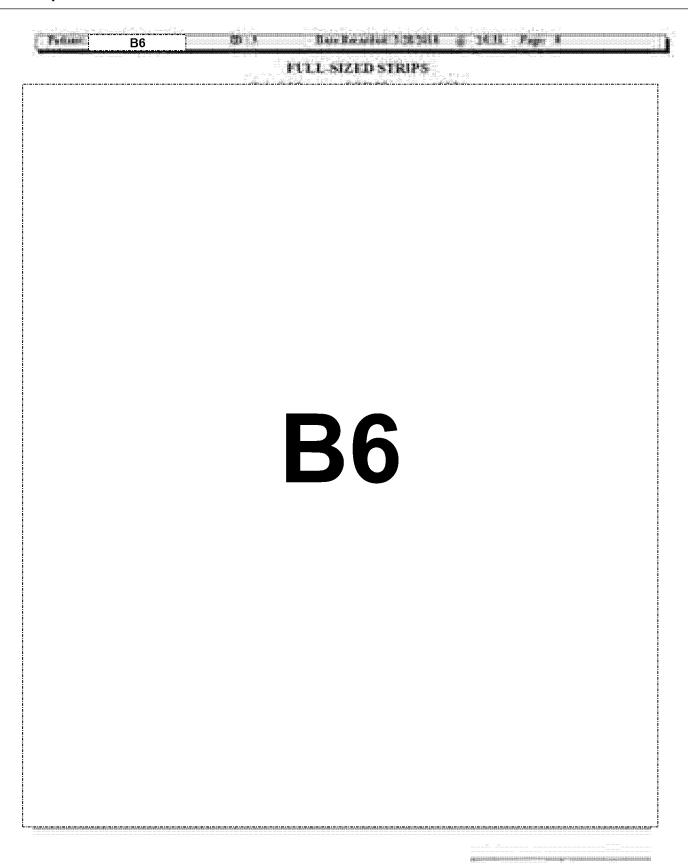


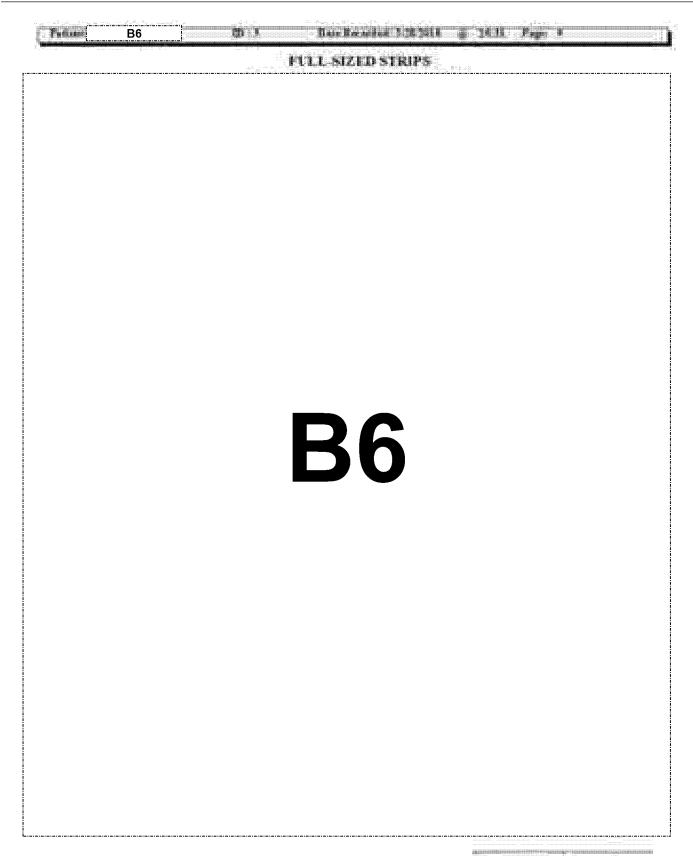


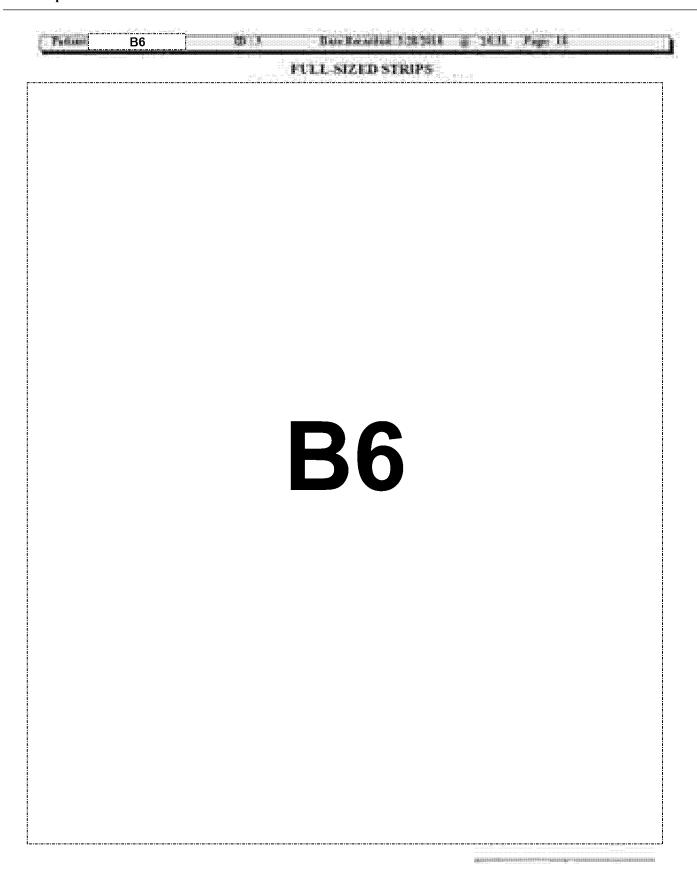




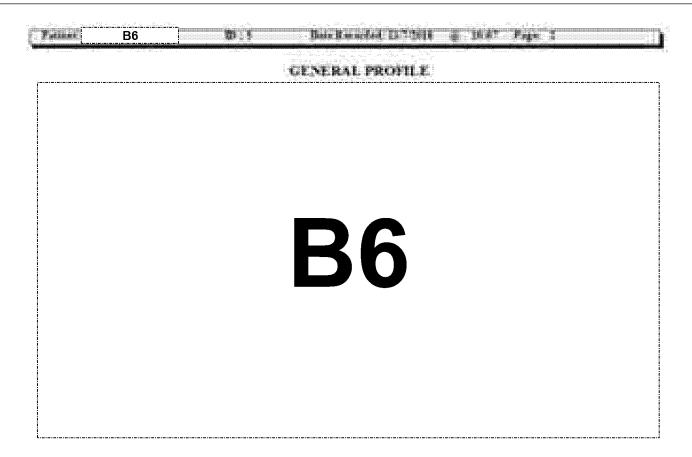


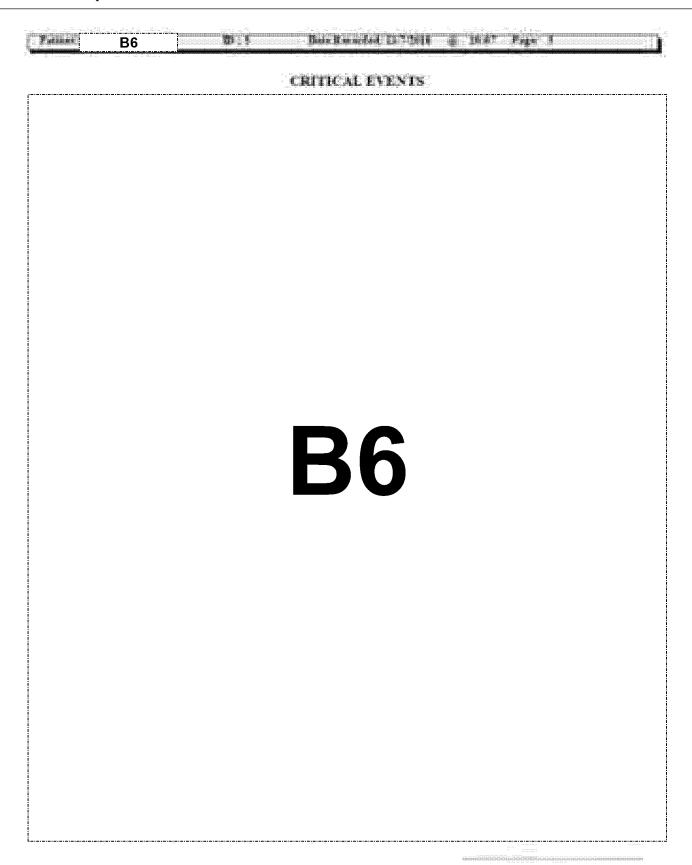


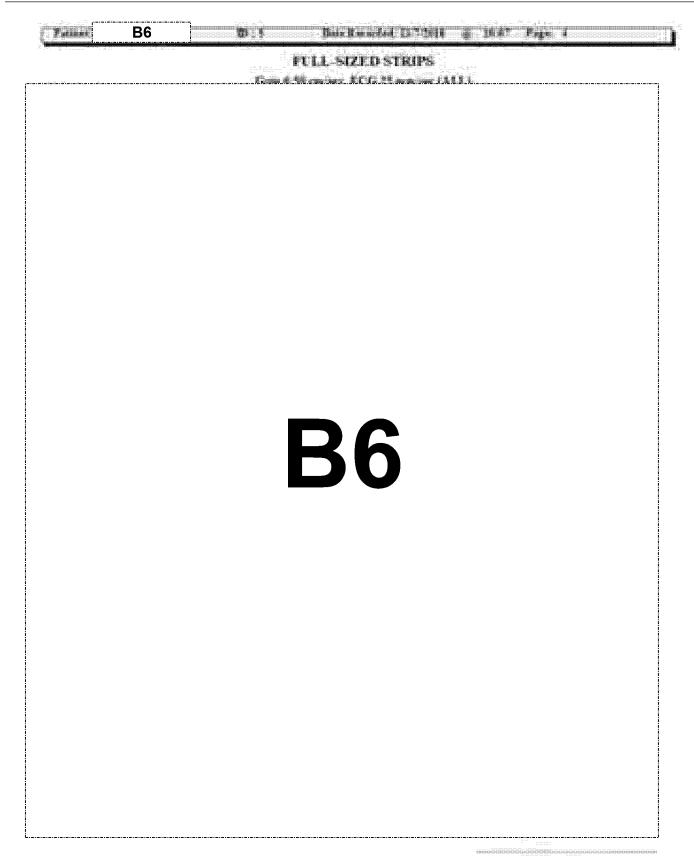


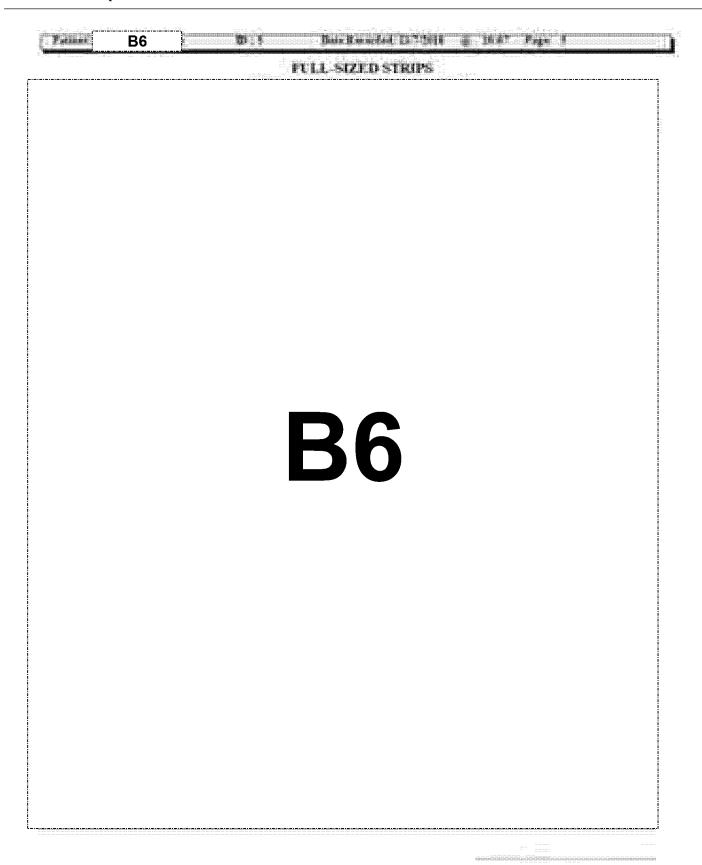


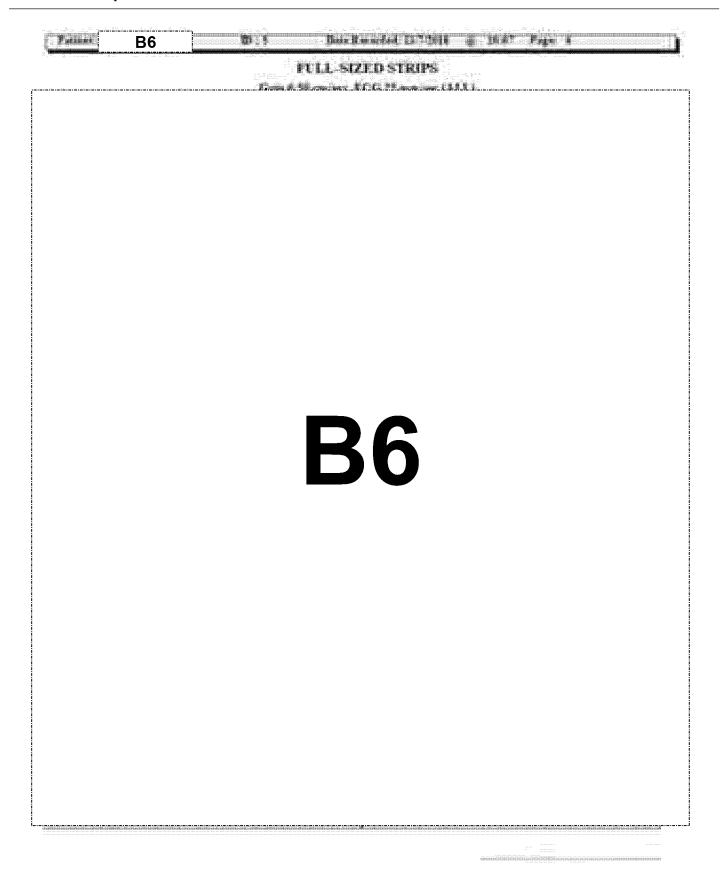
CANINE HOLTER MONITORING REPORT HOLTER MONITOR REPORT Patient Name: **B6** Interp. Physician Cuts of Birth: Scan Humber 10 Date Recorded: THIRD IN MEDICAL Mi Waste Age Cate Processed. 11/4/2018 Recorder Nuel ALC: THE REAL PROPERTY. Sec. Analyst: North and Leader Proyatcian; fricial spens **H**iman Africas of onto **B6** Physicians (epidenic 11000

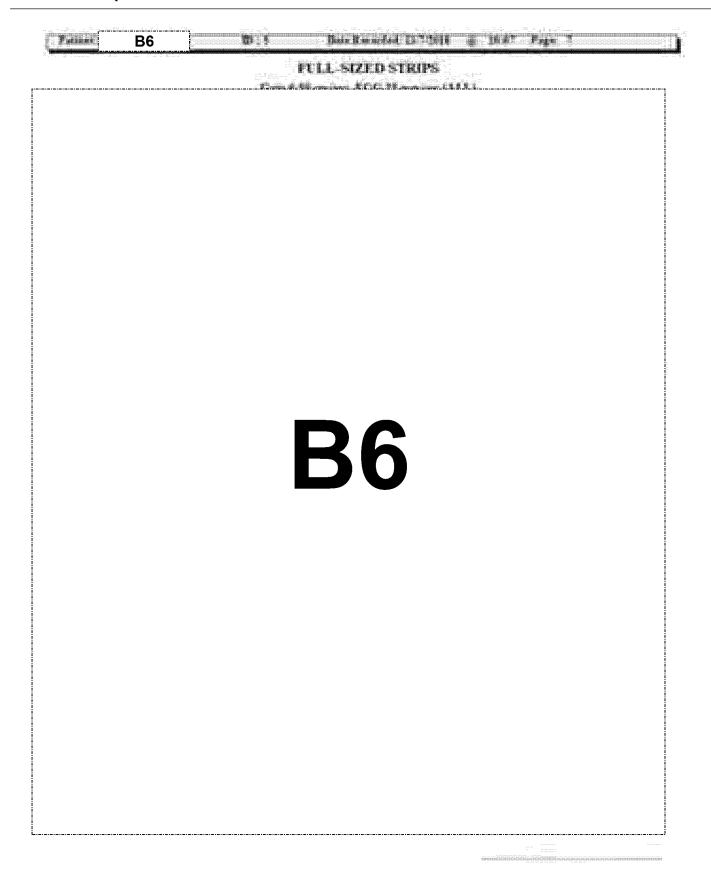




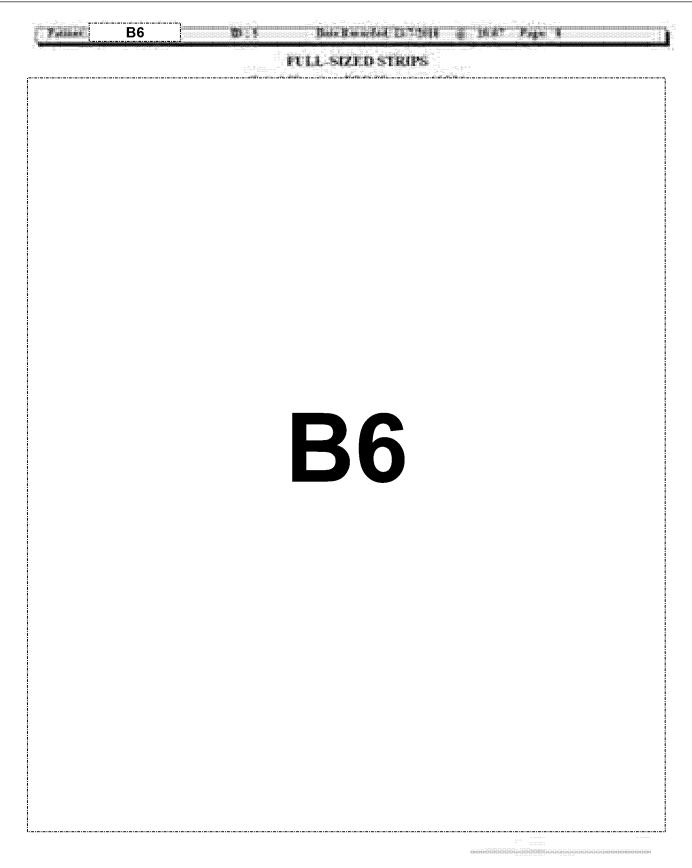


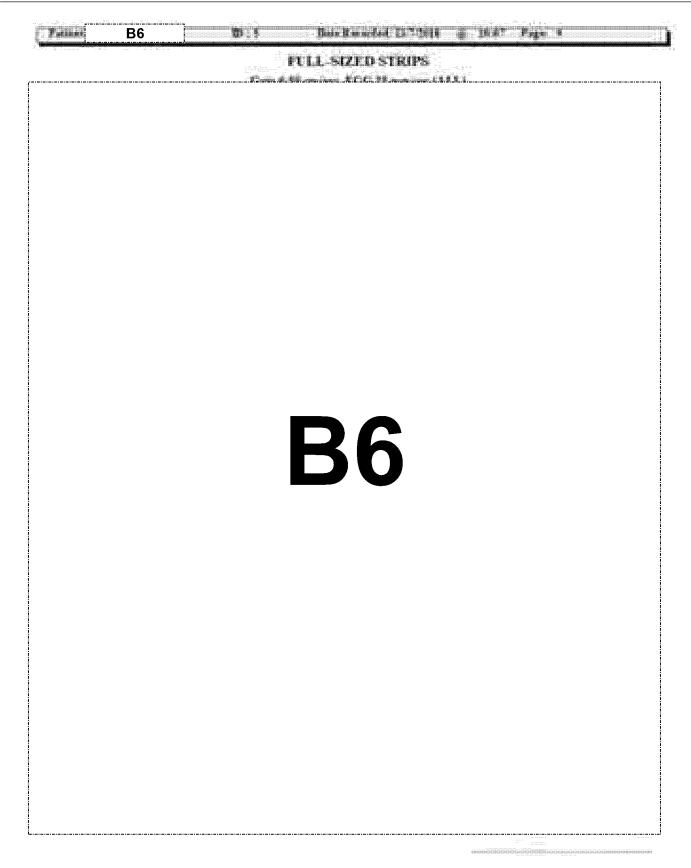


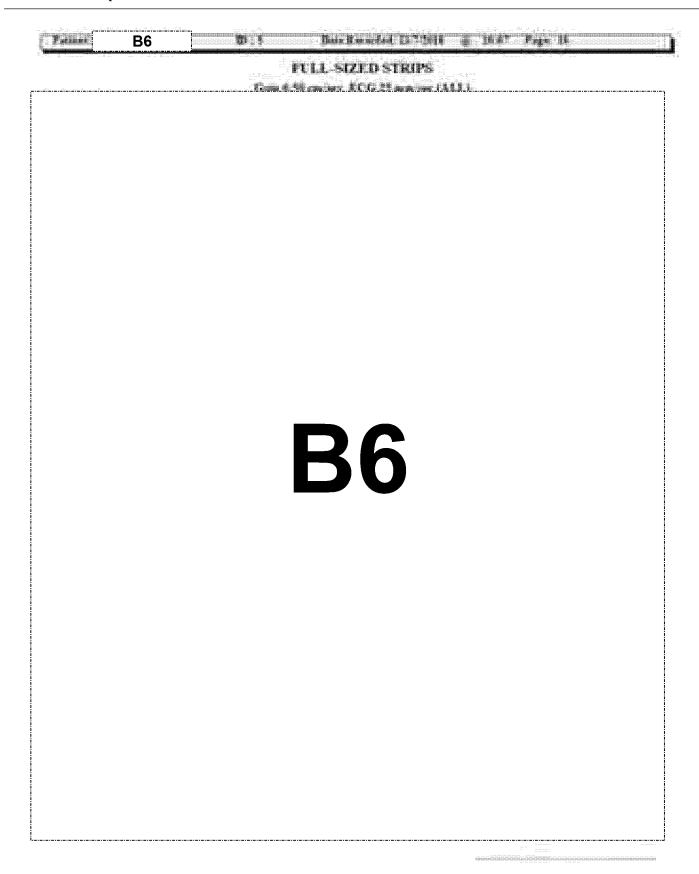


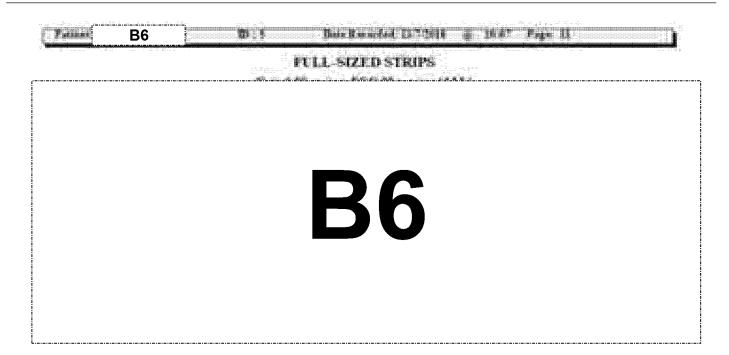


Page 66/111









Lab Results IDEXX CARDIOPET proBNP 11/15/18

B6

76TH

Cardiac Troponin/Texgi SST 11/15/18



Gautesintestinal Laboratory

Cr. J.M. Steiner

Department of Small Animal Clinical Sciences Texas AAM University AATA TAMU





B6 Water to Dear C

Ut Lab Assigned Clinic Ex. 15405

B6		
Tulta University Clinical Perhology Lab	F and	9 538 539 7938
B6	Actional Nations	B6
33) Westford Road North Grafish, MA 01536		B6
LASA		Carro
	Last Francisco	feet and and the

Tufts University-Clinical Pathology Lab Tracking Number: 1811150181

B6 GI Leb Accession

Comments

GI Lab Contact Information

Process (STA) SELECTION Fax (STV) 842-2864

Denote place correlations

Page 72/111

Cardiac Troponin/Texgi SST 11/15/18



Gastrointestinal Laboratory Dr. J.M. Steiner

Department of Small Animal Clinical Sciences Texas A&M University 4474 TAMU College Station, TX 77843-4474



longale teat. Heptotes Chryslery studies

Cobalamin Supplementation Study-Dogs and calls with obtainmin deficiency with normal PLL and either normal or low(consistent with [PI) TLI to compare the efficiety of crail vs parentenal cobalamin supplementation. Context Dr. Chang at choheropiji.com lame solv for further information.

Chronic Parepreatitis with Uncontrolled Diabetes Melliture-Socking dogs with chronic parecreatitis and uncontrolled diabetes melitius for encollerent into a drug trial/implication provided at no cost). Contact Or. Sue Yee Lins at slim@cum tamu edu or Dr. Sina Marsille at smarsille@cum tamu edu.

Dogs with Primary Hyperlipidemia. Prescription diet naive dogs newly diagnosed with primary hyperlipidemia are eligible to be enrolled in a dietary trial. Contact Dr. Lawrence at ylawrence@com temp adu for more information.

Dogs with Chronic Parcreatitis-Dogs with chronic parcreatitis (EPL) >450µg/L) and hypertriplycendemia (>300 mg/d) are eligible to be enrolled in a dietary trial. Contact Dr. Lawrence at ylawrence@com.htmu.edu:

Chronic enterographies in dogs-Please till out this brief form http://times/Looms/bd-ansoil to see if your patient qualifies.

Felline Chronic Pancreatitis—Cats with chronic pancreatitis for more than 2 weeks and 6°U >10 µg/L are eligible for empliment into a treatment trial investigating the efficacy of prednisolone or cyclosporine. Please contact Dr. Varnkate for further information all pylenkate@porn.lama.edu.

We can not accept parkages that are marked "Ital Receiver"

Use our preprinted shipping labels to save on shipping. Call 979-862-2651 for assistance. The GI Lab is not here to accept packages on the weekend. Samples may be compromised if you ship for aminal on Saturday or Sunday or if shipped via US Mail.

GII Lab Contact Information

Francisco (primi primi p

Extend grade grant terms with a verticed forms with fighter.

TAURINE Panel 11/15/18

	TELEFORE FAIR EAST	- 1402 - 1404 -		
	reis en			
	B6	90013 1 1 1 1 1 1 1 1 1		
lees/Corresery	time: John Desning	Libertonia d'Are. Marci -		
		te w sisse	DDAY 40000000	***************************************
aris <u>sara</u>				
			4-11-174	
Santa Contact	B6		В6	email or mail of the
	B6			(100 (100 to 100 to
ation Name	B6	Joe chal		
2		arment Carrier	. Kana: .	B6
Lenni Deri		<u>, 24°</u>		
	Pasta Wite	Accid Union F	B	0
est Tarm	Company Array	5 A230 Cres	B6	
iaurina Rac	udas (us cae smb) ,		Lithium He	
Bi	6 whom Boos	B6		
		rAddint!	With the state of	
	Romal Rays	No oreast the	Normal Recei	No linown ris
		to delicate;		tor deficiency
C#	80-120	-4 0	300-600	>201
Desg	60-120	-4 0	760-150	>150 Laurine Gelicens)

INDUSTRIES OF MANAGEMENT PROPERTY PROPERTY.

TAURINE Panel 11/15/18



CARONOLOGY SERVICE UPDATES: DOG FOOD & DILATED CARDIOMYOPATHY

The Cardinings Service has developed this document in response to the alerts from the FOA. These alerts identify an associated risk for some praintine diets containing certain ingredients (separate like peak, pea components, lentils, white proteines, severt potations) and a diagnosis of disted cardiomyopathy (DCM). The links provided throughout this document can be copied and pasted to obtain additional information.

FCA. Alerts found here:

https://www.bla.gov/Access/vietericary/Newerf versts/CVM/Updates/scort/15200-htm. https://www.bla.gov/Access/vietericary/Newscarces/to/Access/Access/to/Access/vieterical/t6270-htm.

What is Elated Cardiom, repairs (55M)?

DCM is a heart recode discrete that results in a weak pump function and heart chamber enlargement. In the early stages of this disease pata may appear totally healthy with no apparent clinical signs. Later in the course of this disease, digs may agree a heart morney, an arrhythmia (megular heart best), collapse episodes, weakness or traditions with exercise, and even trouble preating from congestive heart failure. While there are some treeds of dogs (the Cobernana) that have a garantee predisposition to development of DCM, there are also not found factors that may result in this disease.

What chould be do?

If you are feeding a diet of concern based upon the FCA alert we recommend that you consult with your veterinaries or veterinary continuous. We provide 4 general points for guidence below:

1. An initial step is to consider whether you are willing or interested in performing additional testing to assess whether your pet is affected with DCM. If you believe your dog is at risk, showing any of the aforementioned clinical signs or would prefer to simply rule out any heart disease, we recommend that you first have your pet's taurine levels tested (both whole blood and placers levels) as well as seek an echocardiogram by a board-pertitled veterinary cardiologist. Low taurine levels are associated with development of DCM in dogs and are sometimes a component of this current issue.

indownships on tauring besting can be found here: https://www.velmed.uc/divis.edu/febris/eminc-acid-leboration

2. At this strue, diet change is recommended when possible and should be considered regardless of the results obtained figure any testing. You can consult with your veterinaries in selecting a new diet that evoids the ingredients of concern listed by the FDA. When selecting this diet, we recommend that you choose a diet that is manufactured with rigorous quality control measures and research behind the formulation. A way to ensure that your diet meets these recommendations is to tiplice the following guidelines that were generated by a large number of the world's leading experts in veterinary number.

Francisco podelines formi here:

titips flower waard org MSAVA impdista for a work flower extronal flowering the Best Front for your flat out

If your put is identified through testing to have a low blood faurine level or evidence of DCM by echocardiogram, we urge
you to separt this information to the FDA.

FIA appring guidelines burst have page from Mugarikis at islamas (Salet Healin Deposal colored con 14.745). An

E. Work with your veterinarian(s) to determine the best opera of action and medical treatments if indicates, in the case of a DCM diagnosis, diet change alone may not be sufficient and additional medications may be prescribed.

Please continue to receive the FCA website and the UC Davis School of Veterlaary Medicine Newsfeeds for updates and recommendations repaiding this leave.

Diet hx

	lease amover the follow		Y FORM IN about your b	eist:	
36	Owners herry	E	36	dolars danc	B6
Foot	c's specifie? (check the po-	ot on the live is	- Enc	miner	'n issoches
he banks procure	da Linuxii - EEafa 1866 (
DiServal eng	competicities only of Official about the s	am engit C	that way		
w ALL put toods Please victors t	e people food; mans, misc he trans, specific prosect.	K, dental shake and haven be a	i, rawhilpes, and a yee hitper exactly is	any other food to that you get is a	en that your pec eng
shipment (or 2004 AAA)	A - Same School School	ulation Plant and	mont your buy	try and deprite	seat some food
поле врести у	potent and flavory	Form	Amount	How others?	Fed since
	ns, & Sweet Potent Adult	39		2 sythey	Jan 1018
Day Saint Barrer		The second section of the sect	7.04	- Brokering SC V-VC SUSSI Statement	Aug 2016 Aug 2016
	1122 1222 1222	Steel	3 Post Sent	Access to the Control of the Control	Dec 2015
n Whenley	NUTRICK WHEELS	Company of the State of the Sta		Account 12 years a second	DA POTALS
+ Beek on	Control of	Parmon	1.5400.000	Charles and the	Charge of the state of the stat
Street end . I	30 shortheaustrain bull	100			MICHT
Secon-	LE MANNE LOCAL	(h)	132 CAR	m-Zwee	
ci Whitely	ncion (Cont. pro)	100	TAN DUNG	2.5 GON	~ 2011 (TUH-
Scatt assume	6 American P.A.				
		of Post sharef			
Ores On Ores On Ores On Ores On Ores On Ores On	id If yes, please led who Bhand/C id	ti onde and giv oncentration	s brands and are	Acco	em per dag
					7.1.114
	Poor Poor Poor Poor Poor Poor Poor Poor	DG Green specific products of press the portion of the product of the portion of	Description of the property of	B6 Owners name From Pools From District appeals appeals on the time pools on the line pools that opening the pools of charge on your period appeals are the man 1-2 remount on the trace for parts are desired the parts are desired to the parts a	Description of the property of

Client:	D6
Patient:	ВО

Vitals Results

B6 3:29:53 PM	Weight (kg)	
B6 2:23:42 PM	Weight (kg)	DC
B6 10:41:26 AM	Weight (kg)	DO
B6 2:45:48 PM	Weight (kg)	
B6 2:01:47 PM	Weight (kg)	

ECG from Cardio

В6

B6 (198-54-98)

Takks becomes by

Takks becomes by

Takks becomes by

B6

ECG from Cardio

B6

ECG from Cardio

B6 B6 FILLS SH Supposite Supposite States Supposite Supp

B6

В6

B6 (1-1) (22.99 Superior State Control of the last superior of the last superior on the last superior of the last superior on the last superior of the last superior of the last superior on the last superior of the last

B6 B6 S133 k2.344 #egs If of 8

B6

В6 данная эт

Total Decreesing.
Forta Desirate Francis of the two
Serious cos

В6

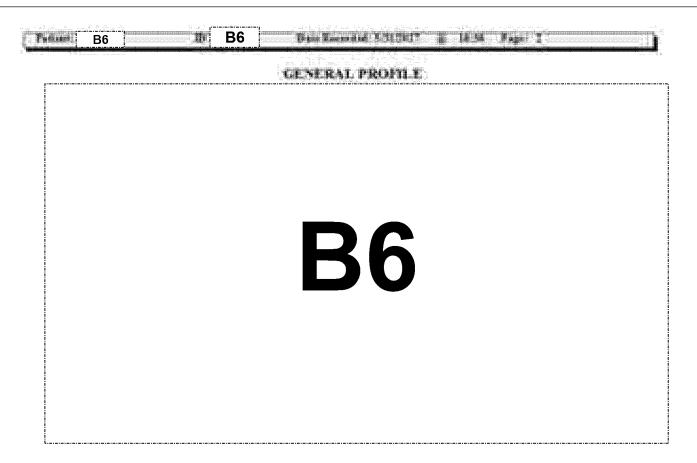
B6

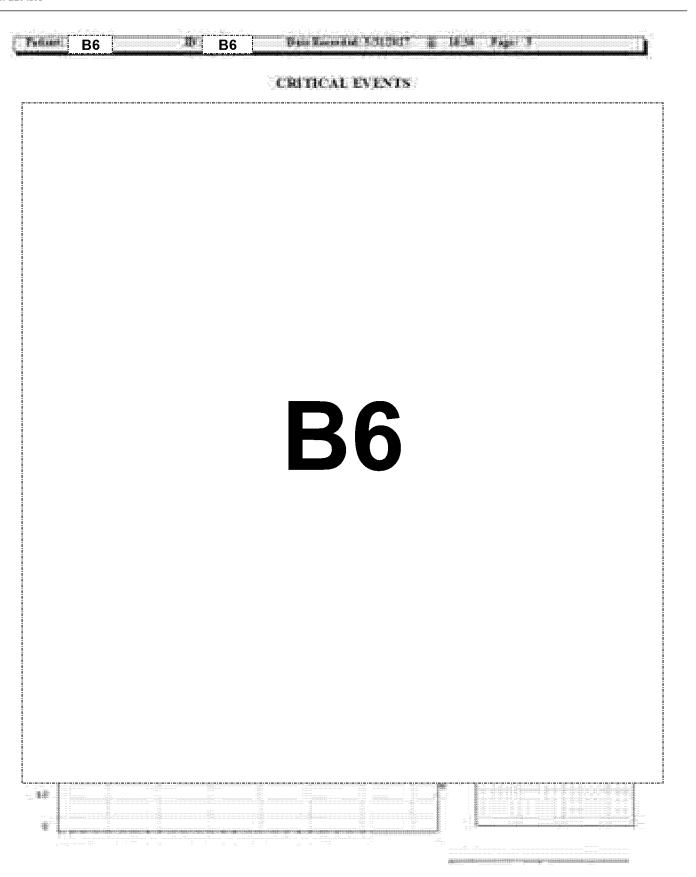
Toda service per toda s

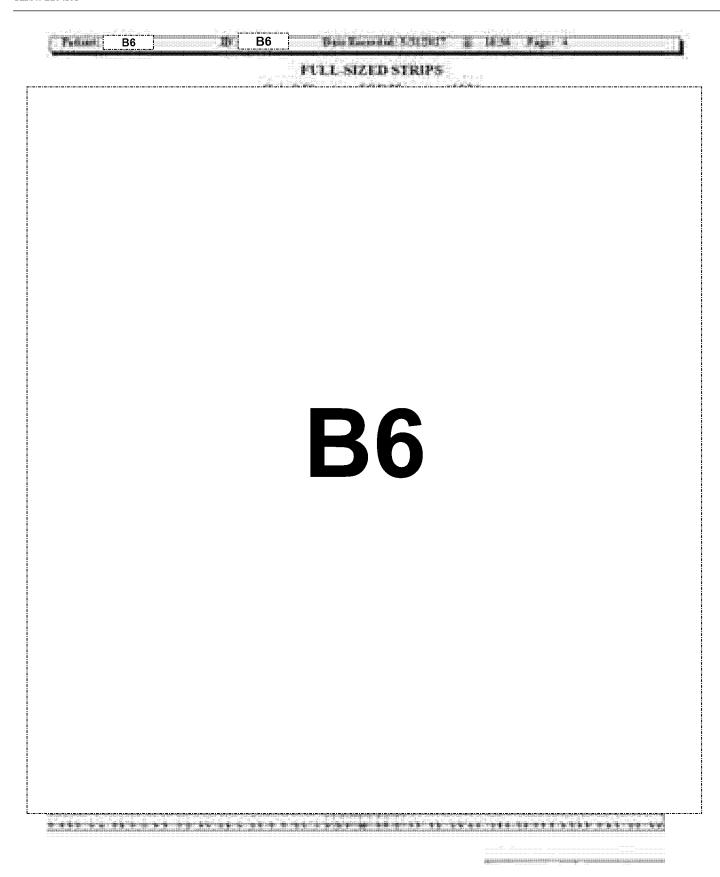
B6 B6 BB+43-set sequence of the sequence of th

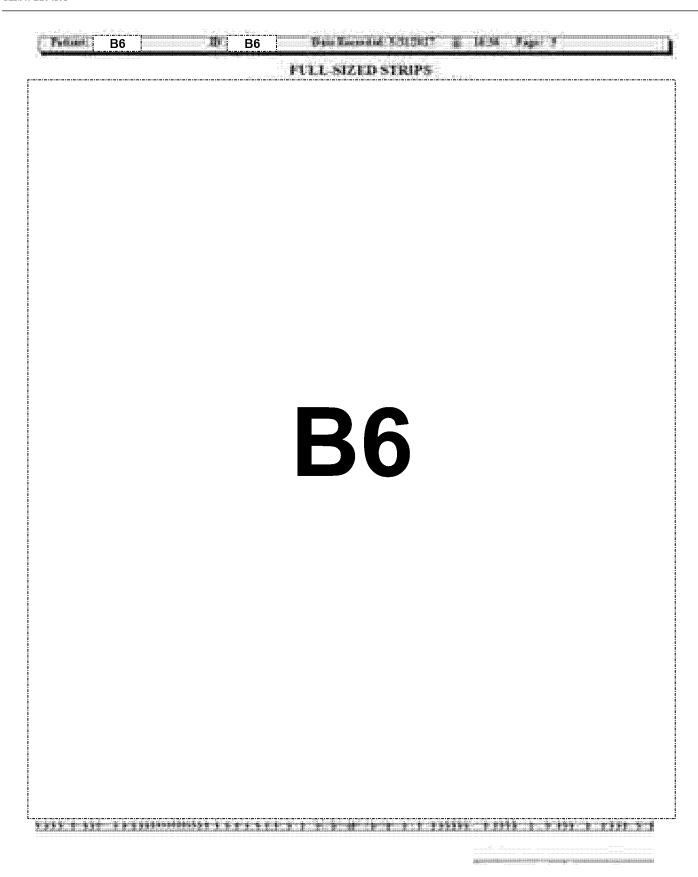
B6 B6 B1 B1 43 BH Baselije Bas

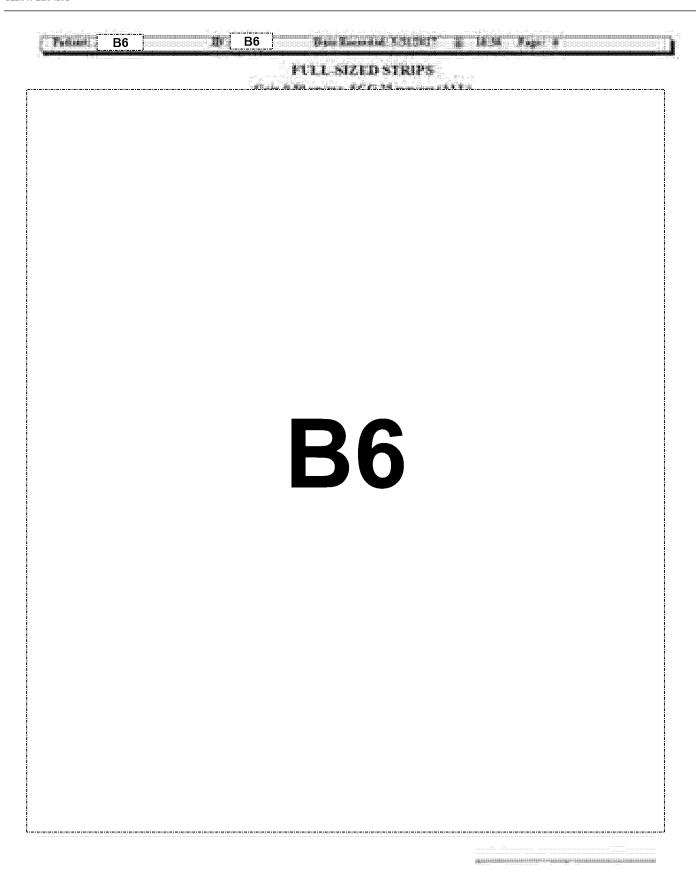
CANINE HOLTER MONITORING REPORT HOLTER MONITOR REPORT Intere Physician Patent Name: **B6** Data of Birth: Scan Number er: Case Recorded: В6 Dista Processed 469/2017 Age Warning. 100 Recorder loans 20.47.1 A californit Montag Tech Preprinciple. initications. **Bugar** Medications: **B6** Physiden's Signature

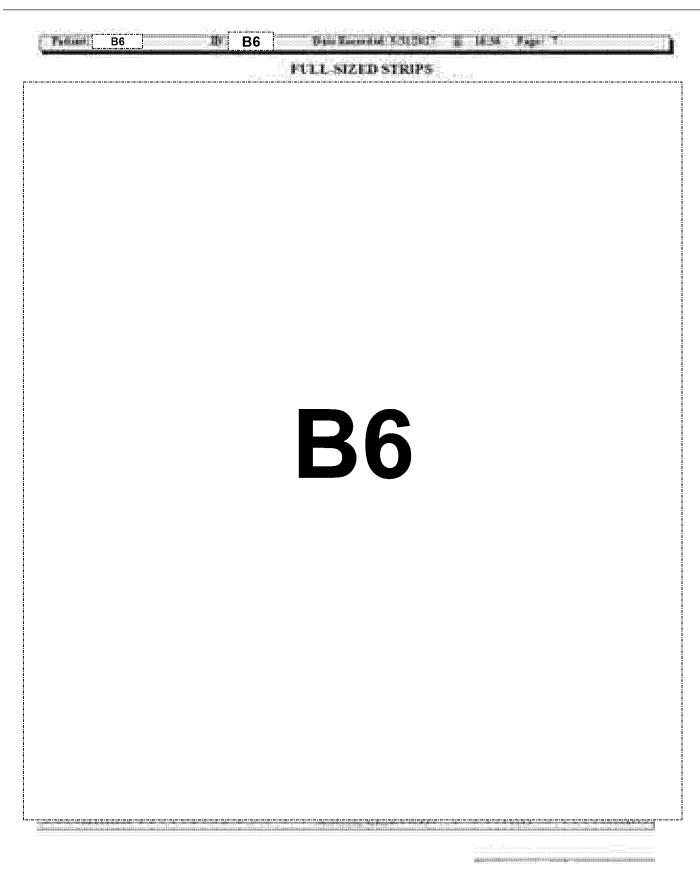


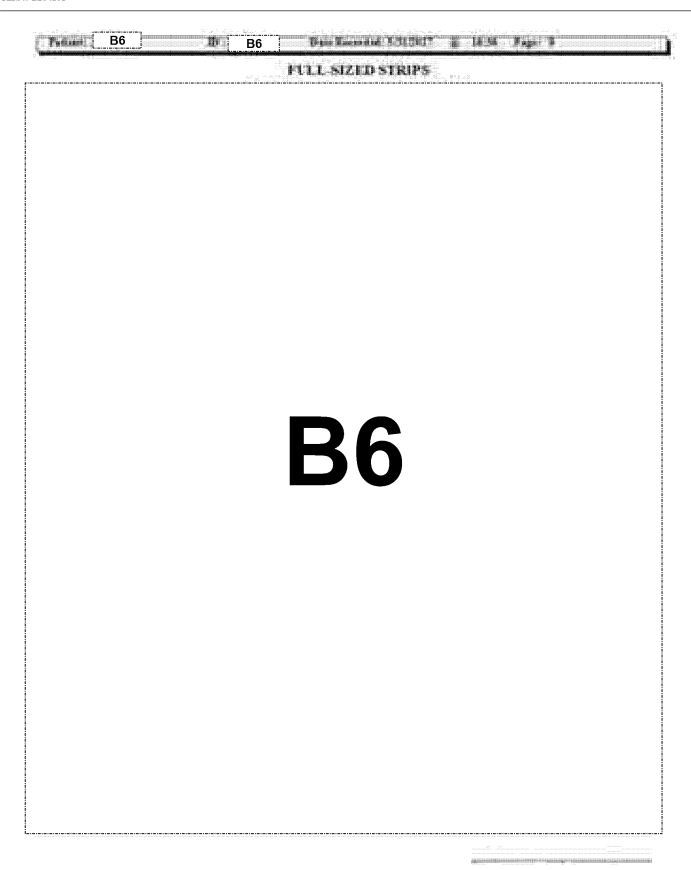


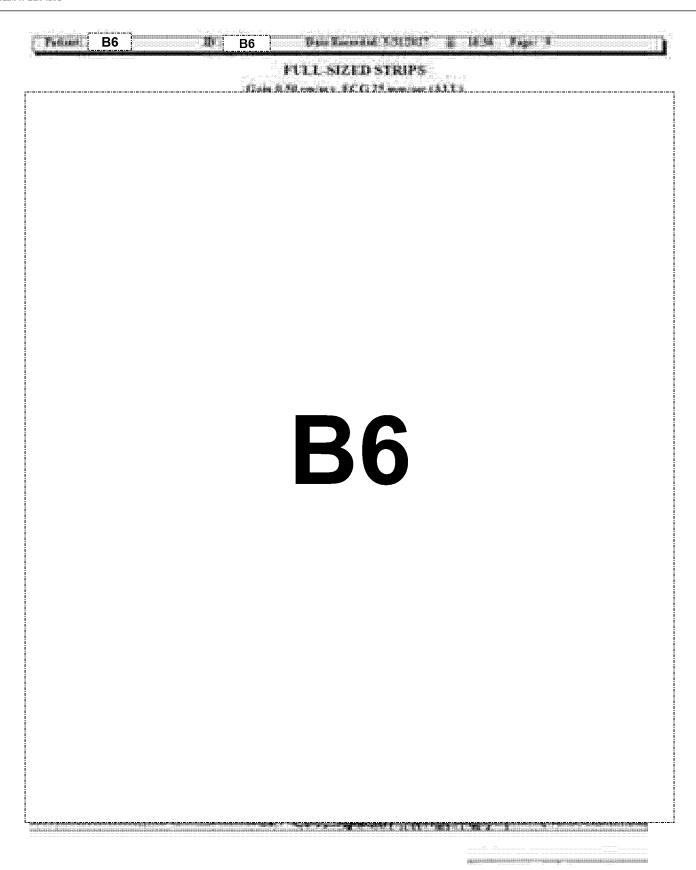


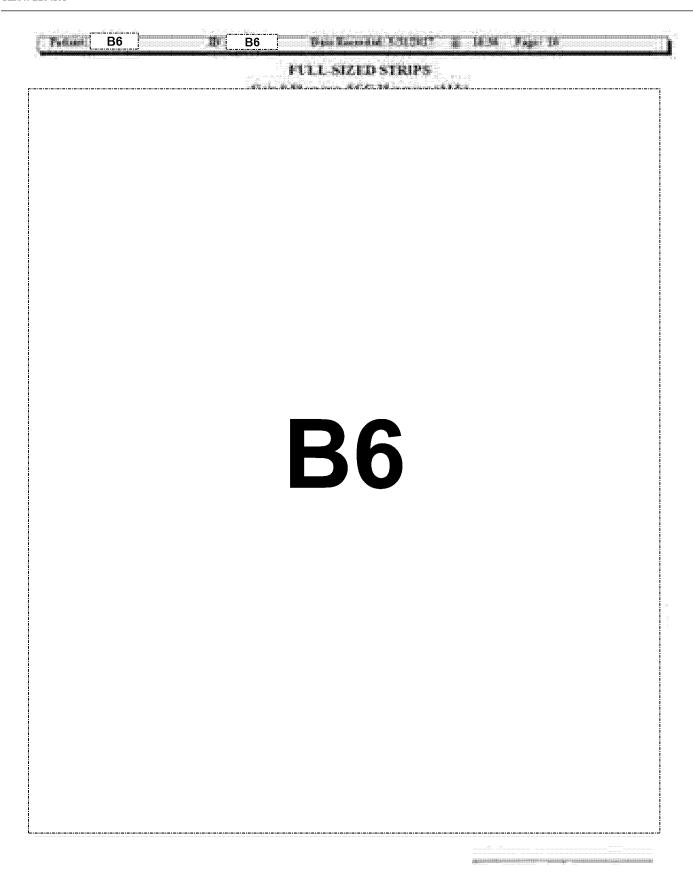


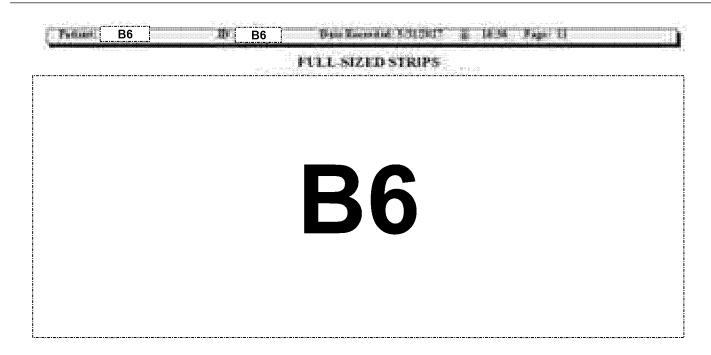












В6

B6 Elbert D. See That is the second DT That is the second of the See Internal

B6

В6

B6 2:11||24-der drops_f ed 4
Tilts discremity
Tilts complies alone at the feet

B6

B6 IIII AV der Fulta Surveyilly Fulta champion annual of an feet

B6

B6 II.19171 me Mata Survey(19 Torta complya sema) of last Sec-taring Sur

Patient History

	03:28 PM	Appointment	
	04:51 PM	Appointment	
	04:52 PM	Appointment	
	04:53 PM	Appointment	
	04:58 PM	Appointment	
	04:58 PM	Appointment	
	04:59 PM	Appointment	
	05:19 PM 02:33 PM	Purchase UserForm	
	i		
	02:45 PM	Purchase	
D	03:29 PM	Vitals	
B6	03:30 PM	Purchase	B6
	03:40 PM	Treatment	
	04:02 PM	UserForm	B6
	05:47 PM	Email	
	05:47 PM	Email	
	12:15 PM	Appointment	
	02:10 PM	UserForm	
	02:23 PM	UserForm	
	02:23 PM	Vitals	
	03:10 PM	Treatment	
	03:10 PM	Purchase	
	03:22 PM	Purchase	
	04:46 PM	UserForm	
	03:24 PM	Email	
	02:20 PM	Appointment	
	02:20 PM	Appointment	
<u> </u>	02:22 PM	Appointment	

Page 103/111

Client:
Patient:

B6

Patient History

	•		
[02:18 PM	UserForm	
	02:22 PM	UserForm	
	į		
	03:07 PM	Treatment	
	00.00 F) (D 1	
	03:39 PM	Purchase	
	03:52 PM	Purchase	
	04:15 PM	Purchase	
	04:36 PM	Prescription	
	04:38 PM	Purchase	
	09:56 AM	Appointment	
	10:46 AM	Appointment	
	00.50 AM	A	
	09:50 AM	Appointment	
	00.57 434	HaarEarra	
	09:57 AM	UserForm	
	10:17 AM	Purchase	
	10:26 AM	Treatment	
	10:41 AM	Vitals	
	11:08 AM	Purchase	
	11.20 AM	Purchase	
Be	11:51 AM	UserForm	
	J 11.511 IIVI		B6
	05:22 PM	Email	
	08:51 AM	Appointment	
	02:19 PM	UserForm	
	02:43 PM	UserForm	
	02:45 PM	Treatment	
	02:45 PM	Vitals	
	02:46 PM	Purchase	
	03:26 PM	Purchase	
	12:57 PM	Email	
	10:35 AM	UserForm	
	05:14 PM	Appointment	
	06:58 PM	Appointment	
	00.501141	rppomunom	
	01:02 PM	UserForm	
	01:04 PM	Treatment	
	02:01 PM	Vitals	
	02:22 PM	Prescription	
t			

Page 104/111

Patient History

03:00 PM	Deleted Reason	
03:00 PM	Deleted Reason	
03:00 PM	Deleted Reason	
B6 03:22 PM 03:25 PM	Purchase Purchase	B6
03:25 PM	Purchase	
03:36 PM	Labwork	
03:36 PM	Purchase	
04:48 PM	UserForm	
06:08 PM	Email	



B6

B6 Free Faters

25 Willard Street

Forter Hospital for Small Animals

North Grafton, MA 01516 Telephone (508) 939-5396 For (508) 839-8739

http://wimed.tufts.edu/

В6			
Desar B6			
Thank you for refe	B6	with their pet	B6
If you have any qu	estions, or quocen	sc, please contact	us at 500-887-4981.
Thank you,			
В6	DWM, DACK	(N (Cordiology)	



B6

B6

Desar B6

Thank you for referring B6 with their per B6

If you have any questions, or concerns, please contact us at 500 887-4988.

Thank you.

B6 DVM, DACVIN (Cardiology)

Fonter Hospital for Small Amena's SS Willard Street Horth Grafton, MA 01516 Telephone (SOR) \$3955395 For (SOR) \$39-8730 http://retined.tuffs.edu/

B6 Feetale B6





Forter Hospital for Small Amena's SS Willard Street North Grafton, MA 01516 Telephone (SGR) 839-5395 For (SGR) 839-8730 http://webmed.tufts.edu/

В6	Female
B6	ner Faten

В6				
Desar	В6			
Thank you	the referri	■ В6	with these ped B6	
15		lons, er concern	s, please contact us at 500 887-49	485
Thank you	L.			
	В6	DVM (R	zsident, Cardiology)	





Descr B6

Thank you be referring B6 with their pet B6.

If you have any questions, or concurrs, please contact us of 500 887-4988.

Thank you,

B6 DW4, DACMIN (Contichogy)

Forter Hospital for Small Amena's SS Willard Street Horth Grafton, MA 01536 Telephone (SOR) 939-5395 For (SOR) 839-7951 http://retmed.bulls.edu/

B6	Forum
B6	oer: Fatien





B6

Thank you for referring B6 with their per B6

If you have any questions, or concurre, please contact us of 500 807-1980.

Thank you,

B6 DWM, DACMIN (Condeday)

Forter Hospital for Small Amena's SS Willard Street Horth Grafton, MA 01536 Telephone (SOR) 939-5395 For (SOR) 839-7951 http://retmed.bulls.edu/

B) 	on air
B6	litueer	Faten





Descr. B6

Thank you for referring B6 with these per B6.

If you have any questions, or concurre, please contact us of 500 807-1988.

Thank you,

B6 DAM, DACMIN (Condislogy)

Forter Hospital for Small Amena's SS Willard Street Horth Grafton, MA 01516 Telephone (SOR) 839-5395 For (SOR) 839-7951 http://retmed.bulls.edu/

Counce Bases Fases B6 To: Cleary, Michael *; HQ Pet Food Report Notification B6

Sent: 12/4/2018 11:21:28 PM

Subject: Earthborn Meadow Feast dry: Lisa Freeman - EON-372834

Attachments: 2059624-report.pdf; 2059624-attachments.zip

A PFR Report has been received and PFR Event [EON-372834] has been created in the EON System.

A "PDF" report by name "2059624-report.pdf" is attached to this email notification for your reference. Please note that all documents received in the report are compressed into a zip file by name "2059624-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-372834

ICSR #: 2059624

EON Title: PFR Event created for Earthborn Meadow Feast dry; 2059624

AE Date	11/20/2018	Number Fed/Exposed	5
Best By Date		Number Reacted	4
Animal Species	Dog	Outcome to Date	Stable
Breed	Boxer (German Boxer)		
Age	3 Years		
District Involved	PFR-New England DO		

Product information

Individual Case Safety Report Number: 2059624

Product Group: Pet Food

Product Name: Earthborn Meadow Feast dry

Description: Littermate diagnosed with reduced cardiac contractility Eating BEG diet (Earthborn) so screened all housemates Subjectively reduced contractility on echo and elevated NT-proBNP and cardiac troponin I

Taurine pending Owner changing diet and will recheck in 3 months

Submission Type: Initial

Report Type: Adverse Event (a symptom, reaction or disease associated with the product)

Outcome of reaction/event at the time of last observation: Stable

Number of Animals Treated With Product: 5 Number of Animals Reacted With Product: 4

Product Name	Lot Number or ID	Best By Date
Earthborn Meadow Feast dry		

Sender information

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

Owner information				
B6				
B6	USA			

To view this PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-372834

To view the PFR Event Report, please click the link below: https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none&e=0&issueType=12&issueId=389803

This email and attached document are being provided to you in your capacity as a Commissioned Official with the U.S. Department of Health and Human Services as authorized by law. You are being provided with this information pursuant to your signed Acceptance of Commission.

This email message is intended for the exclusive use of the recipient(s) named above. It may contain information that is protected, privileged, or confidential. Any dissemination, distribution, or copying is strictly prohibited.

The information is provided as part of the Federal-State Integration initiative. As a Commissioned Official and state government official, you are reminded of your obligation to protect non-public information, including trade secret and confidential commercial information that you receive from the U.S. Food and Drug Administration from further disclosure. The information in the report is intended for situational awareness and should not be shared or acted upon independently. Any and all actions regarding this information should be coordinated through your local district FDA office.

Failure to adhere to the above provisions could result in removal from the approved distribution list. If you think you received this email in error, please send an email to FDAReportableFoods@fda.hhs.gov immediately.

Report Details - EON-	5							
ICSR:	2059624							
Type Of Submission:	Initial							
Report Version:	FPSR.FDA.PETF.V.V1							
Type Of Report:	Adverse Event (a symptom, reaction or disease associated with the product)							
Reporting Type:	Voluntary							
Report Submission Date:	2018-12-04 18:12:06 EST							
Reported Problem:	Problem Description:	Littermate diagnosed with reduced cardiac contractility Eating BEG diet (Earthborn) so screened all housemates Subjectively reduced contractility on echo and elevated NT-proBNP and cardiac troponin I Taurine pending Owner changing diet and will recheck in 3 months						
	Date Problem Started:							
	Concurrent Medical Problem:							
	Outcome to Date:	Stable						
Product Information:	Product Name:	Earthborn Meadow Feast dry						
	Product Type:	Pet Food						
	Lot Number:							
	Package Type:	BAG						
	Product Use Information:							
	Manufacturer /Distributor Information:							
	Purchase Location Information:							
Animal Information:	Name:	В6						
	Type Of Species:							
	Type Of Breed:	Boxer (German Boxer)						
	Gender:							
	Reproductive Status:	Neutered						
	Weight:	30.3 Kilogram						
	Age:	3 Years						
	Assessment of Prior Health:							
	Number of Animals Given the Product:							
	Number of Animals Reacted:	4						
	Owner Information:	Owner Information provided:	Yes					
		Contact:	Name:	В6	3			
			Phone:	В6				
			Email:	E	86			
		Address:	B6					
	Healthcare Professiona Information	i iudiido ituilio:	Tufts Cummings	School of Vet	erinary Med	icine		
		Contact:	Phone: (_isa Freeman (508) 887-4523 isa.freeman@				

		Address	200 Westboro Rd North Grafton Massachusetts 01536 United States	
Sender Information:	Name:	Lisa Freeman		
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States		
	Contact:		5088874523 : lisa.freeman@tufts.edu	
	Permission To Contact Sender:	Yes		
	Preferred Method Of Contact:			
Additional Documents:				
	Attachment:	,	records.pdf	
		: Medical records		
	77-	Medical Records		

Cummings Veterinary Medical Center

Foster Hospital for Small Animals

55 Willard Street North Grafton, MA 01536 (508) 839-5395

		All Medical Records		
Client:	DC	Patient: B6		
Address:	B6	Breed: Boxer	Species:	Canine
İ	j	DOB: B6	Sex:	Male
				(Neutered)
	Home Phone: B6			
	Work Phone: () -			
	Cell Phone: B6			
Referring 1	Information			
[
		B6		
Client:				
Patient:	B6			
			 ;	
Initial Comp				
Scanned Reco	ord			
		·······		
SOAP Text	Nov 20 2018 12:22PM - B6			
Initial Comp	laint:			
DCM Study				
·				
SOAP Text	Nov 20 2018 1:10PM -	B6		
	l			
D				
Disposition/I	Recommendations			

Client:	
Patient:	!

B6

Cummings Veterinary Medical Center

AT	TU	FTS	UN	IVE	RS	ITY

Client:	B6
Veterinarian:	
Patient ID:	B6
Visit ID:	

Lab Results Report

Foster Hospital for Small Animals

55 Willard Street North Grafton, MA 01536 (508) 839-5395

Patient:	В6
Species:	Canine
Breed:	Boxer
Sex:	Male (Neutered)
Age:	B6 Years Old

	11/20/2018 5:45:23 PM	Accession ID: B6	
Test	Results	Reference Range	Units
Troponin I Research - FHSA	B6	0 - 0.08	mg/dl

stringsoft

3/13

В6

B6

Printed Tuesday, December 04, 2018

IDEXX BNP - 11/20/2018

Client B6 Patient B6 IDEXX Reference Laboratories IDEXX VetConnect 1-888-433-9967 Client: B6 Date: 11/20/2018 TUFTS UNIVERSITY 200 WESTBORO RD NORTH GRAFTON, Massachusetts 01536 Patient B6 Species CANINE Breed: BOXER Requisition #: 433149 Accession # B6 Ordered by: NOTS PECIFIED 508-839-5395 Gender: MALE NEUTERED Age: 3Y Account #88933 CARDIOPET proBNP - CANINE CARDIOPET proBNP B6 **B6** HIGH 0 - 900 pmol/L - CANINE

Please note: Complete interpretive comments for all concentrations of Cardiopet proBNP are available in the online directory of services. Serum specimens received

at room temperature may have decreased NI-proBNP concentrations.

B6

CARDIAC TROPONIN/TEXGI SST 11/20/18



Gastrointestinal Laboratory

Dr. J.M. Steiner

Department of Small Animal Clinical Sciences **Texas A&M University**

4474 TAMU

Result

College Station, TX 77843-4474



Website User ID: clinpath@tufts.edu

GI Lab Assigned Clinic ID: 11405

Tufts University-Clinical Pathology Lab Attn: B6 Attn: 200 Westboro Road North Grafton, MA 01536 USA

Phone: Fax:

Animal Name: Owner Name:

Species: Date Received:

508 887 4669 9 508 839 7936

B6

Canine Nov 27, 2018

Assay Date

Tufts University-Clinical Pathology Lab Tracking Number: 1811200093

GI Lab Accession

Reference Interval

≤0.06

B6

Ultra-Sensitive Troponin I Fasting B6 no/mL

11/27/18

Comments:

11/20/2018 1:18 PM CARDIAC TROPONIN/TEXGI SST

GI Lab Contact Information

Phone: (979) 862-2861 Fax: (979) 862-2864

Email: gilab@cvm.tamu.edu vetmed.tamu.edu/gilab

CARDIAC TROPONIN/TEXGI SST 11/20/18



Gastrointestinal Laboratory

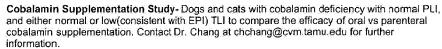
Dr. J.M. Steiner

Department of Small Animal Clinical Sciences Texas A&M University 4474 TAMU

College Station, TX 77843-4474



Ongoing studies



Chronic Pancreatitis with Uncontrolled Diabetes Mellitus- Seeking dogs with chronic pancreatitis and uncontrolled diabetes mellitus for enrollment into a drug trial(medication provided at no cost). Contact Dr. Sue Yee Lim at slim@cvm.tamu.edu or Dr. Sina Marsilio at smarsilio@cvm.tamu.edu

Dogs with Primary Hyperlipidemia- Prescription diet naïve dogs newly diagnosed with primary hyperlipidemia are eligible to be enrolled in a dietary trial. Contact Dr. Lawrence at ylawrence@cvm.tamu.edu for more information.

Dogs with Chronic Pancreatitis-Dogs with chronic pancreatitis (cPLi >400µg/L) and hypertriglyceridemia (>300 mg/dl) are eligible to be enrolled in a dietary trial. Contact Dr. Lawrence at ylawrence@cvm.tamu.edu

Chronic enteropathies in dogs-Please fill out this brief form http://tinyurl.com/ibd-enroll to see if your patient qualifies.

Feline Chronic Pancreatitis- Cats with chronic pancreatitis for more than 2 weeks and fPLI >10 µg/L are eligible for enrollment into a treatment trial investigating the efficacy of prednisolone or cyclosporine. Please contact Dr. Yamkate for further information at pyamkate@cvm.tamu.edu.

We can not accept packages that are marked "Bill Receiver"

Use our preprinted shipping labels to save on shipping. Call 979-862-2861 for assistance. The GI Lab is not here to accept packages on the weekend. Samples may be compromised if you ship for arrival on Saturday or Sunday or if shipped via US Mail.

GI Lab Contact Information

Phone: (979) 862-2861 Fax: (979) 862-2864 Email: gilab@cvm.tamu.edu vetmed.tamu.edu/gilab

Client:	D6
Patient:	ВО

Diet hx

s name	B6)	Owner's na	DО		Today's date	ZO NOV ZO
	i						23
			appetite? (mark the po				t's appetite)
Exampl	ie: Poo	r			Exc	ellent	
	Dan	_			1=		
	Poo	r			——————————————————————————————————————	ellent	
Eats a	about the san	ne amount as	r pet's appetite over th usual □Eats less han usual □Other_	than usual	? (check all that a Eats more tha		
Over the	e last few we weight □G	eks, has your ained weight	pet (check one) Stayed about the	same weight E	IDon't know		
Please	list below ALI	Lipet foods in	eople food, treats, sna	ck dental chews	s rawhides and a	any other food it	em that your net
current	v eats. Pleas	e include the	orand, specific product	t, and flavor so v	ve know exactly v	what you net is e	erri mai your per
							•
Exampl	les are shown	n in the table –	please provide enoug	gh detail that we	could go to the si	tore and buy the	exact same foo
							T
			luct and flavor) & Sweet Potato Adult	Form	Amount	How often?	Fed since
	an hamburgei		s Sweet Potato Adult	dry	1 ½ cup	2x/day	Jan 2018
	oni original be			microwaved treat	3 oz 1/2	1x/week	Jan 2015
Rawhid		sei liavoi	-	treat	6 inch twist	1x/day 1x/week	Aug 2015 Dec 2015
100 11111		MEADOWF	FAST	DEY	~11/2C+		FEB 2016
BEI	TIDUCIV -	THE PLANT	C 1/21	VET	1.126	2x Day	TEDIOLO
		1000					
	= 2						
							<u>, </u>
	lditional diet i	nformation cai	n be listed on the back	of this sheet			
*Any ao		3	-t- t		-1		
	alua anu dint		its to your pet (for exa	mpie: vitamins,	giucosamine, ratt	y acids, or any o	otner
Do you	give any diet	ary supplemei			e bialius aliu aliiu		ount per day
Do you	give any dieta nents)? I	ary supplemer □Yes □No					built per day
Do you supplen	nents)? I	□Yes □No	Brand/C	Concentration		7 1111	
Do you supplen	nents)? I	□Yes □No □Yes □No_	Brand/C	Concentration			
Do you supplen Faurine Carnitin	nents)? I	□Yes □No □Yes □No_ □Yes □No	Brand/C	Concentration			
Do you supplen Faurine Carnitin Antioxid	nents)? 	□Yes □No □Yes □No_ □Yes □No	Brand/C	Concentration			
Do you supplen Faurine Carnitin Antioxid Multivita	nents)? 	DYes DNo DYes DNo DYes DNo DYes DNo DYes DNO DYes DNO DYes DNO	Brand/C	Concentration			
Do you supplen Faurine Carnitin Antioxid Multivita Fish oil Coenzyl	nents)?	DYes DNo DYes DNo DYes DNo DYes DNo DYes DNO DYes DNO DYes DNO	Brand/C	Concentration			
Do you supplen Faurine Carnitin Antioxid Multivita Fish oil Coenzyl Other (p	nents)?	DYes DNo DYes DNo DYes DNo DYes DNo DYes DNO DYes DNO DYes DNO	Brand/C	Concentration			
Do you supplen Carnitin Antioxid Multivitarish oil Coenzyl Other (p. Example	nents)?	UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNO UYes UNO	Brand/C	Concentration		500 mg table	ets – 1 per day
Do you supplen Faurine Carnitin Antioxid Multivitarish oil Coenzyl Other (p	nents)?	UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNO UYes UNO	Brand/C	Concentration		500 mg table	ets – 1 per day \TBSP) i–2×
Do you supplen Faurine Carnitin Antioxid Multivita Fish oil Coenzyl Other (pExample	nents)?	UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNO UYes UNO	Brand/C	Concentration		500 mg table	ets – 1 per day LTBSP) I–2,×
Do you supplen Faurine Carnitin Antioxid Multivitarish oil Coenzyl Other (p	nents)?	UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNO UYes UNO	Brand/C Nati	ure's Bounty		500 mg table	ets – 1 per day LTBSP) I–2,×
Do you supplen Faurine Carnitin Antioxid Multivitar Fish oil Coenzyl Other (p	nents)?	UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNO UYes UNO	Brand/C	ure's Bounty		500 mg table	ets – 1 per day LTBSP) I–2,x
Do you supplen Taurine Carnitin Antioxid Multivita Fish oil Coenzyl Other (pExample	nents)?	UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNO UYes UNO	Brand/C Nati	ure's Bounty		500 mg table	ets – 1 per day LTBSP) I–2,x
Do you supplen Taurine Carnitin Antioxid Multivita Fish oil Coenzy Other (pExample)	nents)?	DYes DNo DYes DNo DYes DNo DYes DNO DYes DNO DYes DNO DYes DNO DYes DNO	Brand/C Notes - Doc. S	ure's Bounty		500 mg table	ets – 1 per day LTBSP) I–2,x
Do you supplen Faurine Carnitin Antioxid Multivita Fish oil Coenzy Other (pExample N) PPL	nents)?	UYes UNO UYes UNO UYes UNO UYes UNO UYes UNO UYes UNO UYes UNO UYes UNO UYes UNO UYes UNO UYes UNO UYes UNO	Brand/C Notes - Doc. S	ure's Bounty		500 mg table	ets – 1 per day LTBSP) I−2,×
Taurine Carnitin Carnitin Carnitin Carnitin Coenzyl Other (p Example A) PPU	you administ not give any not me with a min and a min and a min and a min and a min a min and a min a	UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNo UYes UNO UYes UNO UYes UNO	Note - DOC S	ure's Bounty		500 mg table	ets – 1 per day LTBSP) I–2,x

ECG from Cardio

B6

11/20/2018 3:27:51 PM Tufts University Tufts Cummings School of Vet Med

Cardiology

B6

ECG from Cardio

B6

11/20/2018 3:28:15 PM

Page 1 of 2

Tufts University Tufts Cummings School of Vet Med Cardiology

B6

ECG from Cardio

B6

11/20/2018 3:28:15 PM

Page 2 of 2

Tufts University Tufts Cummings School of Vet Med Cardiology

B6

Patient History

11/20/2018 11:45 AM	Appointment	
11/20/2018 12:23 PM 11/20/2018 01:11 PM 11/20/2018 04:04 PM 11/20/2018 04:04 PM 11/20/2018 04:04 PM 11/20/2018 04:55 PM 11/20/2018 05:45 PM 11/20/2018 05:46 PM 11/21/2018 11:25 AM	UserForm UserForm Purchase Purchase Purchase Treatment Labwork Purchase UserForm	B6
11/26/2018 11:33 AM	Email	



11/22/2018

Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://wetmed.tufts.edu/

B6	Male (Neutered)
Canine Box	er Fawn
433149	

Dear B6			
Thank you for referring	В6	with their pet	B6
		· -	
If you have any question	ns, or concerns	, please contac	t us at 508-887-4988
Thank you,			
B6	DVM, DACVIN	1 (Cardiology)	

Report Details - EON-	5					
ICSR:	2059624					
Type Of Submission:	Initial					
Report Version:	FPSR.FDA.PETF.V.V1					
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	associated with t	he product)		
Reporting Type:	Voluntary					
Report Submission Date:	2018-12-04 18:12:06 EST					
Reported Problem:	Problem Description:	(Earthborn) so screened all housemates Subjectively reduced cont echo and elevated NT-proBNP and cardiac troponin I Taurine pendichanging diet and will recheck in 3 months				
	Date Problem Started:	11/20/2018				
	Concurrent Medical Problem:	No				
	Outcome to Date:	Stable				
Product Information:	Product Name:	Earthborn Meadow F	- east dry			
	Product Type:		7			
	Lot Number:					
	Package Type:	BAG				
	Product Use Information:	Description:	See diet history	in medical record for	more info	
	Manufacturer /Distributor Information:					
	Purchase Location Information:					
Animal Information:	Name:	B6				
	Type Of Species:	Dog				
	Type Of Breed:	: Boxer (German Boxer)				
	Gender:					
	Reproductive Status:	Neutered				
	Weight:	30.3 Kilogram				
	Age:	3 Years				
	Assessment of Prior Health:					
	Number of Animals Given the Product:	5				
	Number of Animals Reacted:	4				
	Owner Information:	Owner Information provided:	171.77			
		Contact:	Name:	В6		
			Phone:	B6		
			Email:	B6		
		Address:				
			B6			
			United States	i		
	Healthcare Professional	Practice Name:	Tufts Cummina	s School of Veterinan	v Medicine	
	Information:	Contact:	? 	Lisa Freeman	,	
			Phone:	(508) 887-4523		
			Email:	lisa.freeman@tufts.e	du	

		Address: 200 Wes	tboro Rd
		North Gr	afton
		Massach 01536	usetts
		United S	tates
Sender Information:	Name:	isa Freeman	
	Address:	200 Westboro Rd	
		North Grafton Massachusetts	
		01536	
		United States	
	Contact:		
		Email: lisa.freem	nan@tufts.edu
	Permission To Contact Sender:	′es	
	Preferred Method Of Contact:	Email	
Additional Documents:			
	Attachment:	B6 records.pdf	
		Medical records	
	Туре:	Medical Records	

From: PFR Event <pfreventcreation@fda.hhs.gov>

To: Cleary, Michael *; HQ Pet Food Report Notification; B6

Sent: 2/24/2019 9:40:39 PM

Subject: Purina One Smart Blend Lamb and Rice dry: Lisa Freeman - EON-380707

2063114-report.pdf; 2063114-attachments.zip

A PFR Report has been received and PFR Event [EON-380707] has been created in the EON System.

A "PDF" report by name "2063114-report.pdf" is attached to this email notification for your reference. Please note that all documents received in the report are compressed into a zip file by name "2063114-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-380707

Attachments:

ICSR #: 2063114

EON Title: PFR Event created for Purina One Smart Blend Lamb and Rice dry; 2063114

AE Date	08/01/2018	Number Fed/Exposed	3
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Worse/Declining/Deteriorating
Breed	Doberman Pinscher		
Age	B6 Years		
District Involved	PFR-New England DO		

Product information

Individual Case Safety Report Number: 2063114

Product Group: Pet Food

Product Name: Purina One Smart Blend Lamb and Rice dry

Description: DCM and CHF diagnosed Aug 2018 We saw 1/11/19 - CHF still not well controlled Eating Purina

Lamb and Rice - unlikely to be associated with DCM but reporting just in case Owner is now changing to

different diet and will recheck in 3 months 2 other dogs eating same diet - we have not screened them yet. BNP =

B6, troponin **B6**, but taurine normal (**B6** plasma, **B6** whole blood)

Submission Type: Initial

Report Type: Adverse Event (a symptom, reaction or disease associated with the product)

Outcome of reaction/event at the time of last observation: Worse/Declining/Deteriorating

Number of Animals Treated With Product: 3 Number of Animals Reacted With Product: 1

Product Name	Lot Number or ID	Best By Date
Purina One Smart Blend Lamb and Rice dry		

Sender information

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

Owner information



To view this PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-380,707

To view the PFR Event Report, please click the link below:

 $\underline{https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none\&e=0\&issueType=12\&issueId=397716}$

This email and attached document are being provided to you in your capacity as a Commissioned Official with the U.S. Department of Health and Human Services as authorized by law. You are being provided with this information pursuant to your signed Acceptance of Commission.

This email message is intended for the exclusive use of the recipient(s) named above. It may contain information that is protected, privileged, or confidential. Any dissemination, distribution, or copying is strictly prohibited.

The information is provided as part of the Federal-State Integration initiative. As a Commissioned Official and state government official, you are reminded of your obligation to protect non-public information, including trade secret and confidential commercial information that you receive from the U.S. Food and Drug Administration from further disclosure. The information in the report is intended for situational awareness and should not be shared or acted upon independently. Any and all actions regarding this information should be coordinated through your local district FDA office.

Failure to adhere to the above provisions could result in removal from the approved distribution list. If you think you received this email in error, please send an email to FDAReportableFoods@fda.hhs.gov immediately.

Report Details - EON-	380707				
ICSR:	2063114				
	Initial				
Type Of Submission:	FPSR.FDA.PETF.V.V1				
Report Version:	:: 				
Type Of Report:		reaction or disease a	associated with the product)		
Reporting Type:	Voluntary				
Report Submission Date:	-4 				
Reported Problem:	Problem Description:	DCM and CHF diagnosed Aug 2018 We saw 1/11/19 - CHF still not well controlled Eating Purina Lamb and Rice - unlikely to be associated with DCM but reporting just in case Owner is now changing to different diet and will recheck in 3 months 2 other dogs eating same diet - we have not screened them yet. BNP = B6 troponini B6 but taurine normal (B6 plasma, B6 whole blood)			
	Date Problem Started:	08/01/2018			
	Concurrent Medical Problem:	No			
	Outcome to Date:	Worse/Declining/Det	teriorating		
Product Information:	Product Name:	Purina One Smart B	lend Lamb and Rice dry		
	Product Type:	7	•		
	Lot Number:	4 2 2 2 2 4 4 7			
	Product Use Information:	Description:	1/2 cup twice daily since a puppy See diet history for additional details		
	Manufacturer /Distributor Information:				
	Purchase Location Information:	4			
Animal Information:	Name:	B6			
Ammai miormation.	Type Of Species:				
		i: Doberman Pinscher			
	Gender:	5			
	Reproductive Status:				
	3}	29.9 Kilogram			
		B6 Years			
	Assessment of Prior Health:	ž			
	Number of Animals Given the Product:	3			
	Number of Animals Reacted:	1			
	Owner Information:	Owner Information provided:	Yes		
		Contact:	Phone: B6		
		Address:	R6		
			United States		
	Healthcare Professional Information:	Practice Name:	Tufts Cummings School of Veterinary Medicine		
	miormation;	Contact:	Name: Lisa Freeman		
			Phone: (508) 887-4523		
			Email: lisa.freeman@tufts.edu		

		Address:	200 Westboro F North Grafton Massachusetts 01536 United States	₹d	
Sender Information:	Name:	Lisa Freeman			
		200 Westboro Rd North Grafton Massachusetts 01536 United States			
	Contact:	Phone: 5088874523			
			lisa.freeman@tu	ufts.edu	
	Permission To Contact Sender:	Yes			
	Preferred Method Of Contact:	Email			
Additional Documents:					
		<pre>rpt_medical_record_ Medical records</pre>	previev B6	pdf	
		Medical Records			
	турс.	ivicalcal recoords			

Report Details - EON-	380709				
ICSR:	2063117				
Type Of Submission:	Initial				
Report Version:	FPSR.FDA.PETF.V.V1				
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	associated with the p	roduct)	
Reporting Type:	Voluntary				
Report Submission Date:	2019-02-24 17:31:22 EST				
Reported Problem:	Problem Description:	referred to us for studiet related. Screene and their hearts were	dy. Eating Fromm Lg ed other 2 standard p	VM. Echoed by another cardiologist who Breed Adult (not grain free) so unclear if oodles in household eating same diet changed diet for all 3 dogs to lams iths	
	Date Problem Started:	01/29/2019			
	Concurrent Medical Problem:	Yes			
	Pre Existing Conditions:		B	6	
	Outcome to Date:	Stable			
Product Information:	Product Name:	Fromm Large Breed	Adult dry		
	Product Type:	Pet Food			
	Lot Number:				
	Package Type:	BAG			
	Product Use Information:				
	Manufacturer /Distributor Information:				
	Purchase Location Information:				
Animal Information:	Name:	В6			
	Type Of Species:	Dog			
	Type Of Breed:	Poodle - Standard			
	Gender:	Male			
	Reproductive Status:	Neutered			
	Weight:	24 Kilogram			
	Age:	16 Years			
	Assessment of Prior Health:	Good			
	Number of Animals Given the Product:	3			
	Number of Animals Reacted:	1			
	Owner Information:	Owner Information provided:	Yes		
		Contact:	Name:		
			Phone:	B6	
			Email:		
		Address:	DC		
			B6 United States		
	Healthcare Professional Information:	Practice Name: Contact:		hool of Veterinary Medicine Freeman	

			Phone:	(508) 887-4523
			Email:	lisa.freeman@tufts.edu
		Address:	200 Westboro North Grafton Massachusetts 01536 United States	
Sender Information:	Name:	Lisa Freeman		
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States		
	Contact:	Phone:	5088874523	
		Email:	lisa.freeman@t	ufts.edu
	Permission To Contact Sender:	Yes		
	Preferred Method Of Contact:	Email		
Additional Documents:				
	Attachment:	rpt_medical_record_	preview.pdf	
	Description:	Medical records		
		Medical Records		

To: Cleary, Michael *; HQ Pet Food Report Notification; B6

Sent: 2/24/2019 10:36:57 PM

Subject: Fromm Large Breed Adult dry: Lisa Freeman - EON-380709

Attachments: 2063117-report.pdf; 2063117-attachments.zip

A PFR Report has been received and PFR Event [EON-380709] has been created in the EON System.

A "PDF" report by name "2063117-report.pdf" is attached to this email notification for your reference. Please note that all documents received in the report are compressed into a zip file by name "2063117-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-380709

ICSR #: 2063117

EON Title: PFR Event created for Fromm Large Breed Adult dry; 2063117

AE Date	01/29/2019	Number Fed/Exposed	3
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	Poodle - Standard		
Age	16 Years		
District Involved	PFR-New England DO		

Product information

Individual Case Safety Report Number: 2063117

Product Group: Pet Food

Product Name: Fromm Large Breed Adult dry

Description: Murmur and arrhythmia ausculted by RDVM. Echoed by another cardiologist who referred to us for study. Eating Fromm Lg Breed Adult (not grain free) so unclear if diet related. Screened other 2 standard poodles in household eating same diet and their hearts were fine. Owners have changed diet for all 3 dogs to Iams MiniChunks and we will recheck in 3 months

Tains willichunks and we will re

Submission Type: Initial

Report Type: Adverse Event (a symptom, reaction or disease associated with the product)

Outcome of reaction/event at the time of last observation: Stable

Number of Animals Treated With Product: 3 Number of Animals Reacted With Product: 1

Product Name	Lot Number or ID	Best By Date
Fromm Large Breed Adult dry		

Sender information

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

Owner information

 	B6	
B6	USA	

To view this PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-380709

To view the PFR Event Report, please click the link below:

 $\underline{https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none\&e=0\&issueType=12\&issueId=397718$

This email and attached document are being provided to you in your capacity as a Commissioned Official with the U.S. Department of Health and Human Services as authorized by law. You are being provided with this information pursuant to your signed Acceptance of Commission.

This email message is intended for the exclusive use of the recipient(s) named above. It may contain information that is protected, privileged, or confidential. Any dissemination, distribution, or copying is strictly prohibited.

The information is provided as part of the Federal-State Integration initiative. As a Commissioned Official and state government official, you are reminded of your obligation to protect non-public information, including trade secret and confidential commercial information that you receive from the U.S. Food and Drug Administration from further disclosure. The information in the report is intended for situational awareness and should not be shared or acted upon independently. Any and all actions regarding this information should be coordinated through your local district FDA office.

Failure to adhere to the above provisions could result in removal from the approved distribution list. If you think you received this email in error, please send an email to FDAReportableFoods@fda.hhs.gov immediately.

Report Details - EON-	380709				
ICSR:	2063117				
Type Of Submission:	Initial				
Report Version:	FPSR.FDA.PETF.V.V1				
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	associated with the product)		
Reporting Type:	Voluntary				
Report Submission Date:	.;) ;;; 				
Reported Problem:	Problem Description:	referred to us for studiet related. Screene and their hearts were	mia ausculted by RDVM. Echoed by another cardiologist who dy. Eating Fromm Lg Breed Adult (not grain free) so unclear if ed other 2 standard poodles in household eating same diet e fine. Owners have changed diet for all 3 dogs to lams will recheck in 3 months		
	Date Problem Started:	01/29/2019			
	Concurrent Medical Problem:	Yes			
	Pre Existing Conditions:				
	Outcome to Date:				
Product Information:	Product Name:	Fromm Large Breed	Adult dry		
	Product Type:	ļ			
	Lot Number:	7			
	Package Type:	7.7			
	Product Use Information:	Description:	Please see diet history for additional details		
	Manufacturer /Distributor Information:				
	Purchase Location Information:				
Animal Information:	Name:	В6			
	Type Of Species:	Dog			
	3)	Poodle - Standard			
	Gender:	7			
	Reproductive Status:	Neutered			
	Weight:	24 Kilogram			
	Age:	16 Years			
	Assessment of Prior Health:	Good			
	Number of Animals Given the Product:	3			
	Number of Animals Reacted:	1			
	Owner Information:	Owner Information provided:	Yes		
		Contact:	Name: Phone: Email:		
		Address:	B6 United States		
	Healthcare Professional Information:	Practice Name: Contact:	Tufts Cummings School of Veterinary Medicine		

			Phone:	(508) 887-4523
			Email:	lisa.freeman@tufts.edu
		Address:	200 Westboro North Grafton Massachusetts 01536 United States	
Sender Information:	Name:	Lisa Freeman		
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States		
	Contact:	Phone:	5088874523	
		Email:	lisa.freeman@t	ufts.edu
	Permission To Contact Sender:	Yes		
	Preferred Method Of Contact:	Email		
Additional Documents:				
	Attachment:	rpt_medical_record_	preview.pdf	
	Description:	Medical records		
		Medical Records		

Foster Hospital for Small Animals

55 Willard Street North Grafton, MA 01536 (508) 839-5395

A 11	Medical	Pagar	·de
AII	Medica	i Kecoi	us

B6

Patient: B6
Breed: Poodle
DOB: B6

Species: Canine
Sex: Male
(Neutered)

Home Phone: **B6**Cell Phone: () -

Referring Information

Client:

Address:

B6

Client: B6

Initial Complaint:

Scanned Record

Initial Complaint:

Cardiology New - per Dr. Freeman

SOAP Text Feb 1 2019 9:52AM - Rush, John

Initial Complaint:

R6

- Blood draw and ECG for DCM study

Client: Patient:

B6

Disposition/Recommendations

Lab Results Report

AT TUFTS UNIVERSITY

Veterinarian:	
Patient ID: B6	
Visit ID:	

Foster Hospital for Small Animals

55 Willard Street North Grafton, MA 01536 (508) 839-5395

Patient:	B6
Species:	Canine
Breed:	Poodle
Sex:	Male (Neutered)
Age:	B6 Year's Old

		Accession ID:		
Test	Results	Reference Range	Units	

	4/24	B6
	., 2 .	
stringsoft		Printed Sunday, February 24, 2019

Vitals Results

Weight (kg) 2/1/2019 1:49:26 PM 24.0000

Patient History		
01/30/2019 12:06 PM	Appointment	
02/01/2019 08:30 AM	UserForm	
02/01/2019 08:30 AM	UserForm	
02/01/2019 08:38 AM	UserForm	B6
02/01/2019 09:06 AM	Purchase	B 6
02/01/2019 01:49 PM 02/01/2019 05:45 PM	Vitals UserForm	
02/06/2019 04:01 PM	Appointment	
	Page 4/2	24

Page 4/24

Client:	DC
Patient:	Bb

P	atient	History

02/18/2019 11:34 AM	Appointment	
02/20/2019 09:24 AM 02/20/2019 09:25 AM 02/20/2019 09:25 AM	Purchase Purchase Purchase	
02/20/2019 10:31 AM	UserForm	B6
02/20/2019 05:20 PM	Appointment	
02/20/2019 05:47 PM	Email	
02/21/2019 04:30 PM	Purchase	

B6
B6 Male (Neutered)
Carrine Poodle Reige
Patient ID: 438325

STANDARD CONSENT FORM

I am the owner, or agent for the owner, of the above described animal and have the authority to execute consent. I hereby authorize the Cummings School of Veterinary Medicine at Tufts University (herein after Cummings School) to prescribe for treatment of said animal according to the following terms and conditions.

Cummings School and its officers, agents and employees will provide such veterinary medical care as they deem reasonable and appropriate under the circumstances.

Cummings School and its officers, agents, and employees will use all reasonable care in the treatment of the above mentioned animal, but will not be liable for any loss or accident that may occur or any disease that may develop as a result of the care and treatment provided.

Lunderstand that the above identified animal may be treated by Cummings School students under the supervision and assistance of Cummings School staff members.

In executing this form, I hereby expressly adknowledge that risks, benefits and alternative forms of treatment have been explained to me. I understand said explanation, and I consent to treatment. Should any additional treatments or diagnostics be required during the continued care of my animal, I understand that I will be given the opportunity to discuss and consent to these additional procedures. I understand that further or additional treatment may be required without an opportunity for discussion and consideration by me, in the case of the development of any life-threatening emergency during the continued care of my animal and I expressly consent to all such reasonable treatment as required. I realize and understand that results cannot be guaranteed.

If any equipment is left with the animal, it will be accepted with the understanding that Cummings School assumes no responsibility for any loss of equipment that may occur.

I agree to pick up the animal when notified that it is ready for release.

In the event the animal is not picked up, and if ten (10) days have expired since a registered letter was sent to the address given above, notifying me to call for the animal, the animal may be sold or otherwise disposed of in a humane manner and the proceeds applied to the charges incurred in caring and treating the animal. Failure to remove said animal will not and does not relieve me from obligation for the costs of services rendered.

I hereby grant to the Cummings School of Veterinary Medicine at Tufts University, its officers and employees (collectively referred to herein as Cummings School), and its agents and assigns (the Grantees) the irrevocable rights to photograph / videotape the operation or procedure to be performed, including appropriate and otherwise use such photographs and images for, and in connection with, a Grantee's medical, scientific, educational, and publicity purposes, by any means, methods and media (print and electronic) now known or, in the future, developed that the Grantee deems appropriate (provided that such photographs and images may not be used in for-profit commercials, unless such commercials are publicizing educational programs at Cummings School). As medical and surgical treatment necessitates the removal of tissue, cells, fluids or body parts of my animal, I authorize the Grantees to dispose of or use these tissues, cells, fluids or body parts for scientific and educational purposes.

Lunderstand that a FINANCE CHARGE will be applied to all accounts unpaid after 30 days. The FINANCE CHARGE is computed on a monthly rate of 1.33% per month, which is an annual percentage rate of 1.6% applied to the average daily balance outstanding, with a minimum fee of \$.50.

I do further agree that should any payment, or the full amount of the sum stated above, become overdue more than 20 days from the above agreed upon time of payment or payments, the entire balanceshall be considered in default and become due and payable. I further agree to be responsible for any or all collection agency and/or attorney fees necessary to collect the full amount.

I do further agree to comply with hours of visitation in conjunction with our Hospital's policy.

I have read, understand, and agree to accept the terms and conditions herein.

	Owner's name	В6	Date: 2/1/2019	
		B	3	2/1/19 Date
Ĺ				j - <i>L</i>

If the individual admitting the arimal is someone other than the legal owner, please complete the portion below:

The owner of the anima	B6	nas grante	ed me authority to obtain medical treatment and to bind this owner
• •	cal servio	s provided at	t Cummings School pursuant to the terms and conditions described
above			
Authorized Agent - Please	De inst		Secretal Circumstance
ALLINIZAJAGAL - PIGBE	HEL		Agent's Signature
Street Address			Date
Town/City St	ate	Zip	_

upper heart chamber as well.

Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Far (508) 839-7951 http://wetmed.turks.edu/

Discharge Instructions

<u>Patient</u>	<u>Owner</u>		
Name: B6	Name:	B6	Patient ID: 438325
Species: Canine	Address:	B6	
Beige Male (Neutered) Poodle	Ĺ	DU	<u>]</u>
Birthdate: B6			
Attending Cardiologist: John E. Rush DVM, MS, DACVI	M (Cardiology), D	ACVECC	
B6			
Cardiology Resident:			
	B6		
C-E-L-T-L-			
Cardiology Technician:			
B6			
DU			
L	i		
Also Veterinary Nutritionist Dr. Lisa Fre	eman.		
Student: B6			
Admit Date: 1/30/2019 10:27:28 AM			
Discharge Date: 2/1/2019			
•			
	-		tricular arrhythmias (ventricular tachycardia,
ventricular bigeminy), short runs of sup	praventricular am	ythmias	
C D			
Case Summary: Thank you for bringing R6 to Tuffe	: Cardiology Sarvir	o for each estion of hic	dilated cardiomyopathy (DOM). This disease is
			of the walls of the heart, reduced cardiac
pump function, and enlargement of th			
anhythmias which can be life threaten	ing and also requ	ire medical managem	ent. If you notice that B6 breathing
			also have some arrhythmias that are
			ions to try to limit the arrhythmias that he is
experiencing. We would like to adjus()	B6 diet and	we provided same die	tary recommendations below.
Diagnostic test results and findings:			
-	walls of the cham	bers of his heart are t	thinner than normal and he has reduced
contenction function. The left of			

ECG findings: The ECG showed arrhythmias that are mostly ventricular in origin but there are alos some from the

Labwork findings: We will call you when we have the results of his bloodwork. Most of it should come back

tomorrow, but some of it will take a week or so to return.

Monitoring at home:

- We would like you to monitor your dog's breathing rate and effort at home, ideally during sleep or at a time of rest.
 The doses of drugs will be adjusted based on the breathing rate and effort.
- O In general, most dogs with heart failure that is well controlled have a breathing rate at rest of less than 35 breaths per minute. In addition, the breathing effort, noted by the amount of belly wall motion used for each breath, is fairly minimal if heart failure is controlled.
- An increase in breathing rate or effort will usually mean that you should give an extra close of _______Bt difficulty breathing is not improved by within 30-60 minutes give another close, and if after giving 2 closes of furosemide then we recommend that a recheck exam be scheduled and/or that your clog be evaluated by an emergency clinic.
- O There are instructions for monitoring breathing, and a form to help keep track of breathing rate and drug doses, on the Tufts HeartSmart web site (http://vet.tufts.edu/heartsmart/at-home-monitoring/).
- We also want you to watch for weakness or collapse, a reduction in appetite, worsening cough, or distention of the belly as these findings indicate that we should do a recheck examination.
- Of the second of the second

i ana spany.		
Recommended Medications:		
	B6	
	DO	

Diet suggestions:

Dogs with heart failure accumulatemore fluid in their body if they eat large amounts of sodium (salt). Sodium can be found in all foods, but some foods are lower in sodium than others. Many pet treats, people foods, and supplements used to give pills often have more sodium than is desirable - a sheet that has suggestions for low sodium treats can be found on the HeartSmart web site (http://vet.tufts.edu/heartsmart/diet/)

Your dog's usual diet may also have more sodium than recommended - we want him/her to continue to eat his/her normal diet for the first 7 to 14 days so we can make sure he is tolerating medications well, but after that time we would recommend slowly introducing one of the lower sodium diets on the HeartSmart list (25% of the new diet and 75% old diet for 2-3 days, then 50.50, etc.). Hopefully you can find a diet on the list that your dog likes to eat. Alternatively, if you are attached to the current diet you can research the amount of sodium in the diet to ensure that the sodium content is similar to those on the list.

- O The FDA is currently investigating an apparent association between diet and a type of heart disease called dilated cardiomyopathy. The exact cause is still unclear, but it appears to be associated with boutique diets and those containing exotic ingredient or are grain-free. Therefore, we are currently recommending that dogs do not eat these types of diets.
- Werecommend switchin B6 o commercial diet made by a well-established company that is not grain-free and does not contain any exocorngredients, such as langaroo, duck, lamb, venison, lentils, peas, beans, buffalo, tapioca, barley, and chidqueas.
- O The FDA issued a statement regarding this issue (https://www.fda.gov/AnimalVeterinary/NewsEvents/CVMUpdates/uom613305.htm) and a recent article published by Dr. Lisa Freeman on the Cummings School's Petfoodology blog can further explain these findings (http://webnutrition.tufts.edu/2018/06/a-broken-heart-risk-of-heart-disease-in-boutique-or-grain-free-diets-and-ex otic-ingredients/).
- Our nutritionists have compiled a list of dog foods that are good options for dogs with heart disease.

Dry Food Options:

Royal Canin Early Cardiac (veterinary diet) Purina Pro Plan Adult Weight Management Purina Pro Plan Bright Mind Adult Small Breed Formula Iams Chunks

Canned Food Options:

Hill's Science Diet Adult 1-6 Healthy Cuisine Roasted Chicken, Carrot, and Spinach Stew Royal Canin Mature 8+

If your dog has special nutritional needs or requires a homecooked diet, we recommend you schedule an appointment with our nutritionists (508-887-4696).

Exercise Recommendations:

We recommend limited activity. Leash walking only is ideal, and short walks to start. Repetitive or strenuous high energy activities (repetitive ball chasing, running fast off-leash, etc.) are generally not advised at this stage of heart failure.

Recheck Visits:

Thank you for enrolling 86 in our clinical study. Ideally 86 would get an ECG (or an Alivecor reading sent to us) in around two weeks once he has had some time on the anti-arrhythmic medication. It would also be great if you can obtain an Alivecor reading if 86 has an episode of collapse or abnormal behavior.

A recheck of liver values, kidney values, and electrolytes is recommended in 2-3 weeks and then about 1 month after that, so we can keep an eye on the liver values, kidney values, and potassium. This can be done at your primary care veterinarian.

B6 supposed to have an appointment here at Tufts in about 3 months. We will perform an echo, ECG and bloodwork at this time.

Thank you for entrusting us with 86 care! It was a pleasure to meet you all today and he was a very good boy. Please contact our Cardiology liaison at (508)-887-4696 or email us at cardiology liaison at (508)-887-4696 or email us at cardiology liaison at (508)-887-4696 or email us at cardiology liaison at (508)-887-4696 or email us at cardiology liaison for scheduling and non-emergent questions or concerns.

Please visit our HeartSmart website for more information http://vet.tulits.edu/heartsmart/

Prescription Refill Discloimer:

For the safety and well-being of our patients, your pet must have had an examination by one of our veterinarians within the past year in order to obtain prescription medications.

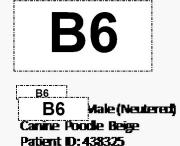
Ordering Food:

Please check with your primary veterinarian to purchase the recommended diet(s). If you wish to purchase your food from us, please call 7-10 days in advance (508-887-4629) to ensure the food is in stock. Alternatively, veterinary diets can be ordered from online retailers with a prescription/veterinary approval.

Clinical Trials:

Clinical trials are studies in which our veterinary doctors work with you and your pet to investigate a specific disease process or a promising new test or treatment. Please see our website: website: website: websi

	,		_
Саве В6	Owner B6	Discharge Instructions	



Outside Prescription Log

B6

3. Date:

Clinician:

Prescription:

Pharmacy sent to:

Completed by:

Origin of request:

4. Date:

Clinician:

Prescription:

Pharmacy sent to:

Completed by:

Origin of request:

5. Date:

Clinician:

Prescription:

Pharmacy sent to:

Completed by:

Origin of request:

6. Date:

Clinician:

Prescription:

Pharmacy sent to:

Completed by:

Origin of request:

7. Date:

Clinician:

Prescription:

Pharmacy sent to:

Completed by: Origin of request:

8. Date:

Clinician:

Prescription:

Pharmacy sent to:

Completed by:

Origin of request:

9. Date:

Clinician:

Prescription:

Pharmacy sent to:

Completed by:

Origin of request:

10. Date:

Clinician:

Prescription:

Pharmacy sent to:

Completed by:

Origin of request:

Cummings Veterinary Medical Center AT TUFTS UNIVERSITY

Cardiology Liaison: 508-887-4696

B6

Patient ID: 438325

B6 Canine ars Old Male (Neutered) Poodle

Cardiology Appointment Report Enrolled in DCM Study

Darte: 2/1/2019
Attending Cardiologist:
John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC (PRIMARY)
B6
Cardiology Resident:
B6
Cardiology Technician:
B6
Presenting Complaint:
DCM diagnosed 1/29/19 by B6 (VPCs but asymptomatic). Eating BEG diet x 3 years
B6
Concurrent Diseases B6 General Medical History: B6 Diet and Supplements: Fromm Large Breed Adult dry
Cardiovascular History:
Prior CHF diagnosis? no
Prior heart murmur? yes
Prior ATE? no
Prior arrhythmia? yes
Monitoring respiratory rate and effort at home? no
Cough? maybe
Shortness of breath or difficulty breathing? no
Syncope or collapse? no
Sudden onset lameness? chronic lameness and weakness back legs
Exercise intolerance? limited by above
Current Medications Pertinent to CV System: Medication: B6

B6		
Medication:	B6	
Cardiac Physical Examinat	ion:	
		B6
Muscle condition: Normal Mild muscle loss		Moderate cachecia Marked cachecia
Cardiovascular Physical Ex Murmur Grade: None I I/VI II II/VI	carn:	□ rv/vi □ v/vi □ vv/vi
Murmur location/descripti	ion: left apical	
Jugular vein: Bottom 1/3 of the ned Middle 1/3 of the ned		1/2 way up theneck Top 2/3 of theneck
Arterial pulses: Weak Good Strong		■ Bounding ■ Pulse deficits ■ Pulsus paradoxus ■ Other:
Arrhythmia: None Sinus arrhythmia Premature beats		Bradycardia Tachycardia
Gallop: Yes No Intermittent		Pronounced Other:
Pulmonary assessments: Eupneic Mild dyspnea Marked dyspnea Normal BV sounds		Pulmonary crackles Wheezes Upper airway stridor
Abdominal exam: minimal Normal Hepatomegaly	exam	Mild ascites Marked ascites

Abdominal distension	
Problems:	
Prior DCM, arrhythmia, +/- cough/gag fro	om laryngeal disease vs other
Diagnostic plan: Echocardiogram	Dialysis profile
Chemistry profileECG	■ Thoracic radiographs ■ NT-proBNP
Renal profile Blood pressure	▼ Troponin I Other tests: DOM study testing
	DC
	B6
Assessment and recommendations: DCM with VPCs and APCs and some runs	of SVT and ventricular tachycardia. Suspect the cough/gag is
related to more chronic laryngeal disease	e, but the dog is breathing with slightly more effort than normal
at rest. DCM may be related to diet or ma at B6 since maybe arrhythmias more fr	ay be unrelated. Recommend continuing B6 but maybe equent now than before 85 yes day-to-day variation?), give
furosemide if dyspnea develops, ideally s	tart low dos B6 if tolerated (potassium is a bit high on recent
	ally too). The dog has enough arrhythmia that I would likely start ight be the choice, but the dog has increased liver enzymes - if
we start this then follow LEs closely. I am	not sure if sotalol would be tolerated. [B6 is TID and
	ut this might be an option if B6 Is not well tolerated. Recheck ECG and kidney values, potassium, and liver enzymes
in about 2 weeks. Discussed Alivecor opti	
Final Diagnosis:	
DCM with cardiac arrhythmias	
Heart Failure Classification Score:	
ISACHC Classification:	_
□ la ☑ lb close to ll	□ IIIa □ IIIb
ACVIM Classification:	
_	
<u> </u>	<u> </u>
■ A ■ B1 ■ B2 close to C	□ C □ D

M-Mode **IVSd** cm LVIDd cm LVPWd cm IVSs. cm LVIDs cm **LVPWs** cm EDV(Teich) ml ESV(Teich) ml EF(Teich) % % %FS SV(Teich) ml Ao Diam cm LA Diam cm LA/Ao Max LA cm TAPSE1 cm M-Mode Normalized **IVSdN** $\{0.290 - 0.520\}$ LVIDdN (1.350 - 1.730)! **LVPWdN** $\{0.330 - 0.530\}$ **IVS**sN $\{0.430 - 0.710\}$ LVIDsN **B6** $\{0.790 - 1.140\}$! **LVPWsN** (0.530 - 0.780)!Ao Diam N $\{0.680 - 0.890\}$ LA Diam N $\{0.640 - 0.900\}$! **2**D **SALA** cm Ao Diam cm SALA / Ao Diam **IVSd** cm LVIDd cm LVPWd cm EDV(Teich) ml IVSs. cm **LVIDs** cm LVPWs cm ESV(Teich) ml EF(Teich) % %FS % SV(Teich) ml LV Major cm LV Minor cm Sphericity Index **LVLd LAX** cm

LVAd LAX LVEDV A-L LAX LVEDV MOD LAX **LVLs LAX** LVAs LAX **LVESV A-L IAX LVESV MOD LAX** HR **EF A-L IAX LVEF MOD LAX** SV A-L LAX SV MOD LAX CO A-L LAX CO MOD LAX R-R HR CO A-L LAX CO MOD LAX

<u>Doppler</u>

MR Vmax

MR maxPG

MV E Vel

MV DecT

MV Dec Slope

MV A Vel

MV E/A Ratio

E'

e/e' a'

s'

AV Vmax

AV maxPG

PV Vmax

PV maxPG

TR Vmax

TR maxPG

B6

cm ml ml cm cm ml mΙ **BPM** % % ml ml l/min l/min ms **BPM** l/min l/min

m/s mmHg m/s ms m/s m/s

m/s

m/s m/s m/s mmHg m/s mmHg m/s

Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://vetmed.tufts.edu/

Discharge	nstructions
Cardiology	Technician

Patient	Owner		
Name: B6	Maine: B6		Patient ID: 438325
Species: Canine	Address		
Beige Male (Neutered) Poodle		B6	
Birthdate: B6	L		
Attending Cardiologist: John E. Rush DVM, MS, DACVIM (Ca	rdiology), DACVECO		
B6			
Cardiology Resident:		: 	·
Be	6		
Cardiology Technician:	!		··
DC			
B6			
Date: 2/20/2019			
We saw B6 today for an EOG and a cher	nistry panel. We are	happy to hear	he is doing well at home, although he has
been a bit more clingy at night in the last we			
see. His bloodwork looked ok, although his li			
beta blocker called Carvadilol.		-	
Medications:			
	В	V	



Recheck Visits: A recheck visit is scheduled for

	May 30th at 10:00am
Thank you for bringing	B6 to see us today, he is such a sweet boy!
Kind Regards,	
	ting us wilt B6 care. Please contact our Cardiology liaison at (508)-887-4696 or email us at for scheduling and non-emergent questions or concerns.
Please visit our HeartS http://vet.tulits.edu/h	Smart website for more information heartsmart/
	biner: I-being of our patients, your pet must have had an examination by one of our veterinarians within the pa prescription medications.
please call 7-10 days in	r primary veterinarian to purchase the recommended diet(s). If you wish to purchase your food from us, n advance (508-887-4629) to ensure the food is in stock. Alternatively, veterinary diets can be ordered from prescription/veterinary approval.
	es in which our veterinary doctors work with you and your pet to investigate a specific disease process or a treatment. Please see our website: <u>vet.tufts.edu/crmc/olinical-studies</u>



Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://vetmed.tufts.edu/

В6	
B6	Male (Neutered)
Canine Po	oodle Beige
B6	

2/12/2019

Dear B6			
Thank you for referring	B6	with their pet	В6

If you have any questions, or concerns, please contact us at 508-887-4988.

Thank you,



Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://wetmed.tufts.edu/

B6 B6	Male (Neutered)
Canine	Poodle Beige
B6	

2/12/2019

Dear B6			
Thank you for referring	В6	with their pe	В6

If you have any questions, or concerns, please contact us at 508-887-4988.

Thank you,



Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://wetmed.tufts.edu/

В6			
В6		e (Neul	ered)
Canne P	COUR	peige	
B6			

2/23/2019

Dear B6			
Thank you for referring	В6	with their pet	В6

If you have any questions, or concerns, please contact us at 508-887-4988.

Thank you,



Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://wetmed.tufts.edu/

В6		
B6	Male (Neutere	d)
Canine	Poodle Beige	
B6]	

2/23/2019

Dear B6			
Thank you for referring	B6 with th	eir pet B6	
If you have any questions, (or concerns, plea	se contact us at 508-	887-4988
Thank you,			

Report Details - EON-	380720			
ICSR:	2063120			
Type Of Submission:	Initial			
Report Version:	FPSR.FDA.PETF.V.V1			
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	associated with	the product)
Reporting Type:	Voluntary			
Report Submission Date:	2019-02-24 19:08:40 EST			
Reported Problem:	Problem Description:	showed DCM. We ev	valuated as part	r. Echo done by mobile ultrasonographer of study 2/1/19 - has DCM Eating BEG diet ement dry and we will recheck in 3 months
	Date Problem Started:	02/01/2019		
	Concurrent Medical	Yes		
	Problem:			
	Pre Existing Conditions:	7	<u> </u>	
	Outcome to Date:	Stable		
Product Information:	Product Name:	Earthborn Coastal C	atch dry	
	Product Type:	Pet Food		
	Lot Number:			
	Package Type:	BAG		
	Product Use	Description:	Please see die	t history for more info
	Information:			
	Manufacturer /Distributor Information:			
	Purchase Location	75 72 72 73 73 74 74 75 75 75 75 75 75 75 75 75 75 75 75 75		
	Information:			
Animal Information:	Name:	В6		
	Type Of Species:	Dog		
	Type Of Breed:	Retriever - Golden		
	Gender:	Male		
	Reproductive Status:	Neutered		
	Weight:	36.3 Kilogram		
	Age:	B6 Years		
	Assessment of Prior Health:	Excellent		
	Number of Animals Given the Product:	1		
	Number of Animals Reacted:	1		
	Owner Information:	Owner Information provided:	Yes	
		Contact:	Name:	DA
			Phone:	B6
			Email:	***************************************
		Address:		
			B6	
				'
			United States	i
	Healthcare Professional	Draotico Ness	Tuffe Cummin-	se Sahaal of Votorinany Madicina
	Information:	Practice Name:	2	s School of Veterinary Medicine
		Contact:	1	Lisa Freeman
			Phone:	(508) 887-4523

Address: 200 Westboro Rd North Grafton Massachusetts Onto 1508 United States Name:				Email: lisa.freeman@tufts.edu	
Address: 200 Westboro Rd North Grafton Massachusetts 01536 United States Contact: Phone: 5088874523 Email: lisa.freeman@tufts.edu Permission To Contact Sender: Preferred Method Of Contact: Email Additional Documents: Attachment: rpt_medical_record_preview.pdf Description: Medical records			Address:	North Grafton Massachusetts 01536	
North Grafton Massachusetts 01536 United States	Sender Information:	Name:	Lisa Freeman		
Permission To Contact Sender: Preferred Method Of Contact: Additional Documents: Attachment: rpt_medical_record_preview.pdf Description: Medical records			North Grafton Massachusetts 01536 United States		
Permission To Contact Sender: Preferred Method Of Contact: Additional Documents: Attachment: rpt_medical_record_preview.pdf Description: Medical records		Contact:	Phone:	5088874523	
Sender: Preferred Method Of Contact: Email Additional Documents: Attachment: rpt_medical_record_preview.pdf Description: Medical records			Email:	lisa.freeman@tufts.edu	
Preferred Method Of Contact: Additional Documents: Attachment: rpt_medical_record_preview.pdf Description: Medical records			Yes		
Attachment: rpt_medical_record_preview.pdf Description: Medical records			Email		
Description: Medical records	Additional Documents:				
				preview.pdf	
Type: Medical Records					

To: Cleary, Michael *; HQ Pet Food Report Notification B6

Sent: 2/25/2019 12:17:08 AM

Subject: Earthborn Coastal Catch dry: Lisa Freeman - EON-380720

Attachments: 2063120-report.pdf; 2063120-attachments.zip

A PFR Report has been received and PFR Event [EON-380720] has been created in the EON System.

A "PDF" report by name "2063120-report.pdf" is attached to this email notification for your reference. Please note that all documents received in the report are compressed into a zip file by name "2063120-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-380720

ICSR #: 2063120

EON Title: PFR Event created for Earthborn Coastal Catch dry; 2063120

AE Date	02/01/2019	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	Retriever - Golden		
Age	B6 Years		
District Involved	PFR-New England DO		

Product information

Individual Case Safety Report Number: 2063120

Product Group: Pet Food

Product Name: Earthborn Coastal Catch dry

Description: Annual RDVM visit identified murmur. Echo done by mobile ultrasonographer showed DCM. We evaluated as part of study 2/1/19 - has DCM Eating BEG diet Changed to Pro Plan Weight management dry and

we will recheck in 3 months **Submission Type:** Initial

Report Type: Adverse Event (a symptom, reaction or disease associated with the product)

Outcome of reaction/event at the time of last observation: Stable

Number of Animals Treated With Product: 1 Number of Animals Reacted With Product: 1

Product Name	Lot Number or ID	Best By Date
Earthborn Coastal Catch dry		

Sender information

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

Owner information

B6

USA

To view this PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-380720

To view the PFR Event Report, please click the link below:

 $\frac{https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none\&e=0\&issueType=12\&issueId=397729$

This email and attached document are being provided to you in your capacity as a Commissioned Official with the U.S. Department of Health and Human Services as authorized by law. You are being provided with this information pursuant to your signed Acceptance of Commission.

This email message is intended for the exclusive use of the recipient(s) named above. It may contain information that is protected, privileged, or confidential. Any dissemination, distribution, or copying is strictly prohibited.

The information is provided as part of the Federal-State Integration initiative. As a Commissioned Official and state government official, you are reminded of your obligation to protect non-public information, including trade secret and confidential commercial information that you receive from the U.S. Food and Drug Administration from further disclosure. The information in the report is intended for situational awareness and should not be shared or acted upon independently. Any and all actions regarding this information should be coordinated through your local district FDA office.

Failure to adhere to the above provisions could result in removal from the approved distribution list. If you think you received this email in error, please send an email to FDAReportableFoods@fda.hhs.gov immediately.

Report Details - EON-	380720		
ICSR:	2063120		
Type Of Submission:	Initial		
Report Version:	FPSR.FDA.PETF.V.V1		
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	associated with the product)
Reporting Type:	Voluntary		7
Report Submission Date:	-9 Quantum		
Reported Problem:	Problem Description:	showed DCM. We ev	dentified murmur. Echo done by mobile ultrasonographer valuated as part of study 2/1/19 - has DCM Eating BEG diet in Weight management dry and we will recheck in 3 months
	Date Problem Started:	· · · · · · · · · · · · · · · · · · ·	<u> </u>
	Concurrent Medical Problem:	5 	
	-	B6	
	Pre Existing Conditions: Outcome to Date:	7	
Product Information:	Product Name:	Earthborn Coastal C	atch dry
22 2.22 - 2.11	Product Type:	<u> </u>	J. J. J. J. J. J. J. J. J. J. J. J. J. J
	Lot Number:	7	
	Package Type:	BAG	
	Product Use	Description:	Please see diet history for more info
	Information:	J. J. J. J. J. J. J. J. J. J. J. J. J. J	r leader see discriminary for more mile
	Manufacturer /Distributor Information:		
	Purchase Location Information:		
Animal Information:	Name:		
	Type Of Species:	B6	
	3	Retriever - Golden	
	Gender:	7	
	Reproductive Status:	<u> </u>	
	3)	36.3 Kilogram	
		B6 Years	
	Assessment of Prior	<u>:</u> :::::::::::::::::::::::::::::::::::	
	Health: Number of Animals	1	
	Given the Product:		
	Number of Animals Reacted:	- The state of the	
	Owner Information:	Owner Information provided:	Yes
		Contact:	Name:
			Phone: B6
			Email:
		Address:	
		- 123,000	B6
			DU
			i United States
	Healthcare Professional	Practice Name:	Tufts Cummings School of Veterinary Medicine
	Information:	}	1
		Contact:	
	1		Phone: (508) 887-4523

			Email: lisa.freeman@tufts.edu
		Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States
ender Information:	Name:	Lisa Freeman	
		200 Westboro Rd North Grafton Massachusetts 01536 United States	
	Contact:		5088874523
			lisa.freeman@tufts.edu
	Permission To Contact Sender:	Yes	
	Preferred Method Of Contact:	Email	
Additional Documents:			
	Attachment:	rpt_medical_record_	preview.pdf
	Description:	Medical records	
	Type:	Medical Records	

Foster Hospital for Small Animals

55 Willard Street North Grafton, MA 01536 (508) 839-5395

All	Medical	Records

Client: Address: **B6**

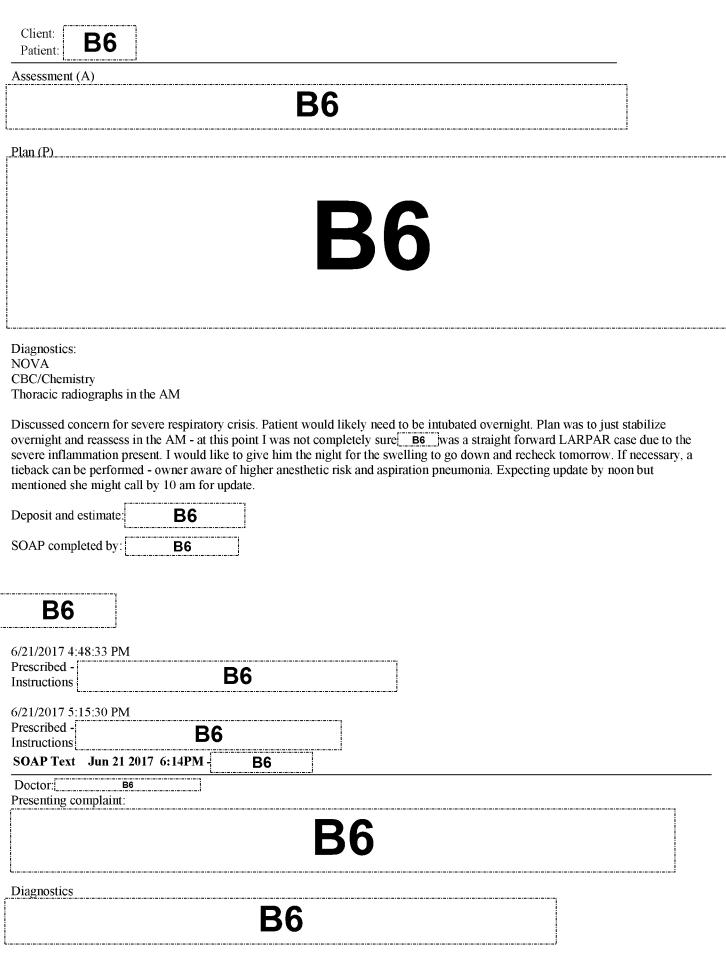
Home Phone: Work Phone: Cell Phone: **B6**

Patient: **B6**Breed: Golden Retriever
DOB: **B6**

Species: Canine Sex: Male

(Neutered)

Referring Information B6	
Client: Patient: B6	
Initial Complaint: Emergency	
SOAP Text Jun 20 2017 11:44PM - B6	
6/20/2017 11:44:47 PM EXAM, GENERAL	
Subjective (S) Dx wit B6 at RDVM today - got IV fluids and B6 by injection (owner didn't give B6 orally). He was seen at RDVM because he was panting and lethargic and had nasal discharge. He was grunting and was well at home. Wretching at home before presentation. Got bully stick yesterday night. Other owner took stick out of mobefore - unsure if he was chewing on it or what. Been slowing down a little past couple months. No breathing difficulty Curren meds: B6	uth the night
Objective (O)	
B6	
H/L: NMA, NSR, SSFP; severe inspiratory stridor/dyspnea; harsh BVS bilaterally, no crackles/wheezes	



Page 2/81

Treatments

B6

Exam:

Subjective (S): attitude: quiet, sedated

BCS: 7/9

Hydration: normal

Objective (O)

B6

H/L:NMA NSR fPSS normal BV sounds bilaterally with normal RR and RE, snores at rest

B6

Assessment (A)

Dx Plan (P) **B6**

Tx Plan

B6

Communication Summary:

See CComm notes

SOAP Text Jun 22 2017 8:00AM - B6

Doctor: B6
Presenting complaint:

B6

Page 3/81

Client: Patient: B6
B6
Diagnostics
B6
6/21
B6
Treatments
B6
Exam: Subjective (S): attitude: quiet, sedated BCS: 7/9 Hydration: normal
Objective (O) B6
H/L:NMA NSR fPSS normal BV sounds bilaterally with normal RR and RE, snores at rest
B6
Assessment (A) B6
Plan B6
histo pending
Communication Summary: See CComm notes
6/22/2017 10:55:51 AM B6
6/22/2017 11:27:48 AM B6
Page 4/81

Client: B6	
Instructions - B6	
6/22/2017 11:29:01 AM	
В6	
SOAP Text Jun 23 2017 10:47AM - B6	l
Doctor: B6	
Presenting complaint:	
B6	
DU	
Diagnostics	
B6	
В	
6/21	
B6	
DO	
6/22	
B6	
Treatments	
B6	
Exam:	
Subjective (S): attitude: quiet, interactive BCS: 7/9	
Hydration: normal	
Objective (O)	
B6	
DO	
H/L:NMA NSR fPSS normal BV sounds bilaterally with normal RI	R and RE, minimal airway noise
B6	

Page 5/81

Client: DC
Patient: B6
Rectal:np
Assessment (A)
B6
Plan
B6
Communication Summary: See CComm notes
B6
6/23/2017 4:39:18 PM Prescribed - B6
Prescribed - B6 Instructions - B6
6/23/2017 4:39:37 PM
Prescribed - B6 Instructions - B6
instructions -
6/23/2017 5:03:32 PM
Prescribed Instructions B6
SOAP Text Jun 24 2017 2:59PM - B6
Doctor B6
Presenting complaint:
Diagnostics
6/20
DC .
B6
6/21
B6
6/22
B6
DU

Page 6/81

Treatments

Client:	В6	
Patient:	DU	
Current -	36	B6
BCS:	(S): attitude 7/9 ation: normal	: quiet, interactive
Objective	(O)	
		B6
H/L:NMA stertorous	NSR fPSS r	normal BV sounds bilaterally with normal RR and RE, minimal airway noise - but after eating was more
		B6
Assessmen	nt (A)	B6
Plan		
		B6
Communio See CCom	cation Summ m notes	ary:
	9:14:51 AM	
Prescribed Instruction	is	B6
		2017 4:06PM - B6
Doctor Presenting	B6 complaint:	
		B6
Diagnostic	S	
		B6
i		Page 7/81

Client: Patient: B6
6/21
B6
6/22
B6
Treatments
B6
Exam: Subjective (S): attitude: quiet, interactive BCS: 7/9 Hydration: normal
Objective (O)
B6
H/L:NMA NSR fPSS normal BV sounds bilaterally with normal RR and RE, minimal airway noise
B6
Assessment (A)
B6
Plan
B6
Communication Summary: See CComm notes
SOAP Text Jun 26 2017 9:19AM - B6
B6 6/26/17 Presenting complaint:
B6
Page 8/81

Client: Patient: B6
B6
Overnight update: Clinically well, but had a fever of 105.7 at 10PM. resolved with time and B6
Diagnostics 6/20
B6
6/21
B6
6/22
B6
Treatments B6
Exam: Subjective (S): attitude: BAR, interactive BCS: 7/9 Hydration: normal
Objective (O)
B6
H/L: NMA NSR fPSS normal BV sounds bilaterally with normal RR and RE, minimal airway noise
B6
Assessment (A)
Plan
B6
Page 9/81

Patient: B6
Communication Summary B6
B6
6/26/2017 2:45:50 PM Prescribed - DC
Instructions B6
6/26/2017 2:46:40 PM
Prescribed - Instructions B6
6/26/2017 2:47:03 PM
Prescribed - Instructions B6
Initial Complaint:
Emergency
SOAP Text Jan 14 2019 12:03PM - B6
EXAM, GENERAL 1/14/19
Subjective (S)
B6 MC Golden - this week lethargic, o' thinks very lethargic yesterday and could have died. Having to encourage him
to get up out of bed, doesn't want to do anything, but one day did go for a long walk. Yesterday had episode in
afternoon where he was extremely lethargic but recovered later so didn't have evaluated. No V/D, no C/S or oculonasal discharge. No changes in appetite. Full bloodwork 2 weeks ago, noted new murmur grade 2/6,
recommended echo which is scheduled for Feb 5th. O wants sooner.
has been trying to lose weight, T4 checked and was low normal, tick negative 2 weeks ago. Has hot spot that was noted
on Friday, put cone on but no topical or oral medications for it, was covered with bacitracin temporarily. Previous hot
spots. B6
Diet: Earthborne Coastal grain free kibble - good appetite, drinking normally. Hx of B6
Medication: B6
Vaccines: B6
Travel: None.
Objective (O)
B6
H/L: Grade I-II/VI left systolic murmur, FPSS, no arrhythmia, eupneic, normal BV sounds bilaterally
R6

Assessment (A)

A1: Lethargy: diagnosis open

A2: New heart murmur: DMVD vs. DCM vs. other

Plan (P)

-Recommend recheck CBC/chem/UA - declined

В6

-Keep scheduled appointment with Cardio for echo

Client communication: Patient presented to ER for hot spot and was placed in exam room to wait due to dog aggression/fear aggression. Met with client - introduced myself and client revealed that she was actually here because was displaying extreme lethargy yesterday and she is concerned for cardiac disease, as her vet recently diagnosed a heart murmur and recommended a cardio consult and workup, which is scheduled for February. Client is very concerned that lethargy is cardiac related and wants echo sooner. She describes patient as non responsive and unwilling to get up yesterday, afraid he might die, but did not want to seek care yesterday. He seemed better in the afternoon and went for his normal walk. Explained to client that I am unlikely able to get a cardio consult today for a stable patient, unless we find significant changes on exam such as lung changes or arrhythmia, and again don't suspect that lethargy will be cardiac in origin but need to perform a full exam. Discussed exam findings - normal patient, low grade murmur, warrants workup but not today. Offered recheck bloodwork since done 2 weeks ago but lethargy is new, client declined. Would like treatment for hot spot and will keep cardio appointment.

	r
SOAP completed by:	B6

Initial Complaint:

Cardiology Recheck - DCM study - will be fasted - fearful dog will be waiting in car

SOAP Text Feb 1 2019 1:48PM - Rush, John

Disposition/Recommendations

AT TUFTS UNIVERSITY

Client:	B6
Veterinarian:	
Patient ID:	B6
Visit ID:	

Lab Results Report

Foster Hospital for Small Animals

55 Willard Street North Grafton, MA 01536 (508) 839-5395

Patient:	B6
Species:	Canine
Breed:	Golden Retriever
Sex:	Male (Neutered)
Age:	B6 Years Old

Nova Full Panel-ICU	6/20/2017 11:58:25 PM	Accession ID: B6	
Test	Results	Reference Range	Units
SO2%		94 - 100	%
HCT (POC)		38 - 48	%
HB (POC)		12.6 - 16	g/dL
NA (POC)		140 - 154	mmol/L
K (POC)		3.6 - 4.8	mmol/L
CL(POC)		109 - 120	mmol/L
CA (ionized)		1.17 - 1.38	mmol/L
MG (POC)		0.1 - 0.4	mmol/L
GLUCOSE (POC)		80 - 120	mg/dL
LACTATE		0 - 2	mmol/L
BUN (POC)	B6	12 - 28	mg/dL
CREAT (POC)		0.2 - 2.1	mg/dL
TCO2 (POC)		0 - 0	mmol/L
nCA		0 - 0	mmol/L
nMG		0 - 0	mmol/L
GAP		0 - 0	mmol/L
CA/MG		0 - 0	mol/mol
BEecf		0 - 0	mmol/L
BEb		0 - 0	mmol/L
A		0 - 0	mmHg
NOVA SAMPLE		0 - 0	\ <u>-</u>
	<u> </u> j		

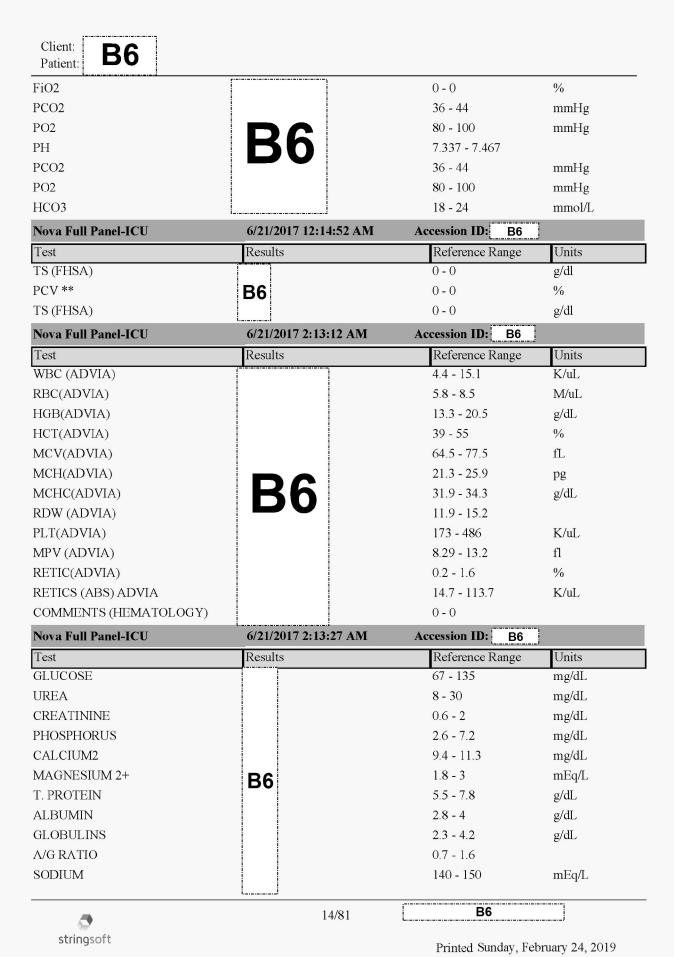
stringsoft

13/81

B6

Stringsoft

Printed Sunday, February 24, 2019



Page 14/81

	TOGULO	0 - 0	Onto
Cest	Results	Reference Rang	
OIKILOCYTOSIS Jova Full Panel-ICU	B6 6/21/2017 12:35:00 PM	O - O Accession ID: B	6
some erythrocytes are smudged and the			e effects of lipemia.
ee comment(s)			
RBC MORPHOLOGY		0 - 0	
No Morphologic Abnormalities			
WBC MORPHOLOGY	ii	0 - 0	
EOS (ABS)ADVIA		0 - 1.4	K/uL
MONOS (ABS)ADVIA		0.1 - 1.5	K/uL
LYMPHS (ABS)ADVIA		1 - 4.8	K/uL
SEGS (AB)ADVIA	B6	2.8 - 11.5	K/ul
EOS%	DC	0 - 16	%
MONOS%		1 - 15	%
LYMPHS%		7 - 47	%
SEGS%		43 - 86	%
Test	Results	Reference Rang	
Nova Full Panel-ICU	6/21/2017 2:13:10 AM	Accession ID: B	
DSMOLALITY (CALCULATED)		291 - 315	mmol/L
AMYLASE		409 - 1250	U/L
TRIGLYCERIDES		30 - 338	mg/dl
CHOLESTEROL		82 - 355	mg/dL
CK		22 - 422	U/L
AST		9 - 54	U/L
ALT		14 - 86	U/L
GGT		0 - 10	U/L
ALK PHOS	B6	12 - 127	U/L
BILIRUBIN	D A	0 - 0.2	mg/dL
D.BILIRUBIN		0 - 0.1	mg/dL
Γ BILIRUBIN		0.1 - 0.3	mg/dL
NA/K		29 - 40	
AGAP		8 - 19	
CO2 (BICARB)		14 - 28	mEq/L
CHLORIDE POTASSIUM		3.7 - 5.4	mEq/L
		106 - 116	mEq/L

В6 15/81 stringsoft

Printed Sunday, February 24, 2019

Client: B6 Patient:			
Microscopic Findings:			
	B6		
Cytologic Interpretation: B6			!
Comments:	B6		
Electronically Signed by 6/21/2017@1:			J
B6			
AP results CYTOLOGY REPORT		0 - 0	
Clinical History: Sample Source: Mass B6 Slides Received: 1			
Microscopic Findings:			
	B6		
Cytologic Interpretation:			-
Comments:			
	B6		
Electronically Signed by 6/21/2017@1:	11 PM	0.0	
AP results CYTOLOGY REPORT		0 - 0	
Clinical History: Sample Source: Mass (B6 Slides Received: 1			
Microscopic Findings:			
	B6		
Ø	16/81	B6	
stringsoft		Printed Sunday, February 2	4, 2019
	Daga 16/81		

Page 16/81

Client: B6			
	B6		
Cytologic Interpretation: B6			i
Comments:	B6		
Electronically Signed by 6/21/2017@.			
B6	. 11 1 11/1		
Nova Full Panel-ICU	6/21/2017 12:35:00 PM	Accession ID: B6	
Test	Results	Reference Range 0 - 0	Units
AP results PRELIMINARY BIOPSY REPORT			
Microscopic Findings:			
	B6		
Gross Description:	B6		
Electronically Signed by 6/23/2017@3			
B6			
	i	0 - 0	
AP results PRELIMINARY BIOPSY REPORT			
Microscopic Findings:			
	B6		
Gross Description:	B6		
Electronically Signed by 6/23/2017@3	3:23 PM	i	
B6			
AP results		0 - 0	
PRELIMINARY BIOPSY REPORT			
	17/81	B6	
stringsoft		Printed Sunday, Feb	ruary 24, 2019

Page 17/81

Client: Patient:	B6				
Microscop	ic Findings:				
			B6		
Gross Desc	cription:	Bı	6		
Electronica	ally Signed by B6	6/23/2017@3:23 PM		0 - 0	
AP results BIOPSY R	EPORT			0-0	
Diagnosis:		B6			
Microscop	ic Findings:				·····
			B6		
Gross Desc	eription:	В6			
Comment:					₁
			B6		
Electronica	ally Signed by B6	6/30/2017@11:19 AM			
L		l		0 - 0	
AP results BIOPSY R	EPORT				
Diagnosis:					
		B6			
Microscop	ic Findings:				
			B6		
Gross Desc	eription:				
5)		18/81	В6	
string	soft			Printed Sunday, Febr	uary 24, 2019

Page 18/81

Client: Patient: B6	·······
B6	
Comment:	
B6	,
Electronically Signed by 6/30/2017@11:19 AM	
B6	
	0 - 0
AP results	
BIOPSY REPORT	
D'	
Diagnosis: B6	
·	
Microscopic Findings:	
DC	
B6	
Gross Description:	
1	j
Comment:	
B6	
Electronically Signed by 6/30/2017@11:19 AM	
B6	

Nova Full Panel-ICU **B6** 6/26/2017 11:34:12 AM Accession ID: Test Reference Range Units Results WBC (ADVIA) 4.4 - 15.1 K/uL RBC(ADVIA) 5.8 - 8.5M/uL HGB(ADVIA) 13.3 - 20.5 g/dL HCT(ADVIA) 39 - 55 % 64.5 - 77.5 fLMCV(ADVIA) **B6** MCH(ADVIA) 21.3 - 25.9 pg MCHC(ADVIA) 31.9 - 34.3 g/dL RDW (ADVIA) 11.9 - 15.2 PLT(ADVIA) 173 - 486 K/uL MPV (ADVIA) 8.29 - 13.2fl RETIC(ADVIA) 0.2 - 1.6%

stringsoft

Printed Sunday, February 24, 2019

B6

19/81

Client: **B6**

RETICS (ABS) ADVIA
COMMENTS (HEMATOLOGY)

B6

14.7 - 113.7 K/uL
0 - 0

Nova Full Panel-ICU	6/26/2017 11:34:10 AM	Accession ID: B6	
Test	Results	Reference Range	Units
SEGS%		43 - 86	%
LYMPHS%		7 - 47	%
MONOS%		1 - 15	%
EOS%		0 - 16	%
SEGS (AB)ADVIA		2.8 - 11.5	K/ul
LYMPHS (ABS)ADVIA	DC	1 - 4.8	K/uL
MONOS (ABS)ADVIA	B6	0.1 - 1.5	K/uL
EOS (ABS)ADVIA		0 - 1.4	K/uL
WBC MORPHOLOGY		0 - 0	
No Morphologic Abnormalities			
ACANTHOCYTES		0 - 0	
POIKILOCYTOSIS		0 - 0	

20/81 B6

stringsoft

Printed Sunday, February 24, 2019

Vitals Results

-		
6/21/2017 12:08:06 AM	Notes	
6/21/2017 1:11:50 AM	Respiratory Rate	
6/21/2017 1:14:59 AM	Temperature (F)	
6/21/2017 1:15:05 AM	Heart Rate (/min)	
6/21/2017 1:15:11 AM	Respiratory Rate	
6/21/2017 1:51:23 AM	Weight (kg)	
6/21/2017 2:09:14 AM	Nursing note	
6/21/2017 3:06:54 AM	Respiratory Rate	
6/21/2017 4:08:04 AM	Quantify IV fluids (mls)	
6/21/2017 4:15:21 AM	Notes	B6
6/21/2017 4:15:37 AM	Heart Rate (/min)	L L U
6/21/2017 4:15:42 AM	Respiratory Rate	
6/21/2017 4:56:54 AM	Respiratory Rate	
6/21/2017 5:29:10 AM	Respiratory Rate	
6/21/2017 5:29:33 AM	Heart Rate (/min)	
6/21/2017 8:00:07 AM	Respiratory Rate	
6/21/2017 8:05:00 AM	Quantify IV fluids (mls)	
6/21/2017 8:05:46 AM	Heart Rate (/min)	
6/21/2017 8:15:57 AM	Notes	

Page 20/81

Client: **B6**

Vitals Results		
6/21/2017 8:42:45 AM	Eliminations	
6/21/2017 9:05:55 AM	Respiratory Rate	
6/21/2017 9:56:24 AM	Respiratory Rate	
6/21/2017 10:20:08 AM	Heart Rate (/min)	
6/21/2017 10:20:17 AM	Temperature (F)	
6/21/2017 11:20:32 AM	Respiratory Rate	
6/21/2017 11:28:48 AM	Quantify IV fluids (mls)	
6/21/2017 11:29:15 AM	Nursing note	\$
6/21/2017 11:57:30 AM	Heart Rate (/min)	
6/21/2017 11:57:41 AM	Respiratory Rate	
6/21/2017 1:34:24 PM	Respiratory Rate	
6/21/2017 1:42:09 PM	Heart Rate (/min)	
6/21/2017 1:42:15 PM	Respiratory Rate	
6/21/2017 2:52:19 PM	Respiratory Rate	
6/21/2017 3:47:24 PM	Quantify IV fluids (mls)	
6/21/2017 3:49:14 PM	Heart Rate (/min)	
6/21/2017 3:50:21 PM	Nursing note	
6/21/2017 3:54:12 PM	Respiratory Rate	
6/21/2017 4:25:03 PM	Respiratory Rate	DC
6/21/2017 4:51:03 PM	Nursing note	B6
6/21/2017 5:26:32 PM	Temperature (F)	
6/21/2017 5:26:51 PM	Heart Rate (/min)	
6/21/2017 5:53:46 PM	Respiratory Rate	
6/21/2017 6:53:35 PM	Respiratory Rate	
6/21/2017 7:02:31 PM	Quantify IV fluids (mls)	
6/21/2017 7:13:37 PM	Heart Rate (/min)	
6/21/2017 7:16:53 PM	Amount eaten)
6/21/2017 7:23:54 PM	Eliminations	
6/21/2017 7:30:08 PM	Notes	
6/21/2017 7:59:23 PM	Respiratory Rate	
6/21/2017 8:58:25 PM	Respiratory Rate	
6/21/2017 9:18:22 PM	Eliminations	
6/21/2017 9:30:08 PM	Heart Rate (/min)	
6/21/2017 9:48:38 PM	Respiratory Rate	
6/21/2017 10:49:14 PM	Respiratory Rate	
6/21/2017 11:02:12 PM	Quantify IV fluids (mls)	
6/21/2017 11:46:39 PM	Heart Rate (/min)	
6/21/2017 11:46:47 PM	Respiratory Rate	
	r,	

Page 21/81

Client:	ſ
Patient:	Ĺ

Vital	e Ree	nlte
v man	s nes	ults

6/22/2017 12:14:17 AM	Nursing note
6/22/2017 12:54:08 AM	Respiratory Rate
6/22/2017 1:04:11 AM	Heart Rate (/min)
6/22/2017 1:04:28 AM	Temperature (F)
6/22/2017 1:26:28 AM	Respiratory Rate
6/22/2017 2:53:02 AM	Respiratory Rate
6/22/2017 3:09:30 AM	Quantify IV fluids (mls)
6/22/2017 3:09:56 AM	Heart Rate (/min)
6/22/2017 3:10:07 AM	Urine Output (mls)
6/22/2017 3:35:40 AM	Respiratory Rate
6/22/2017 4:52:22 AM	Respiratory Rate
6/22/2017 4:54:33 AM	Heart Rate (/min)
6/22/2017 5:53:00 AM	Respiratory Rate
6/22/2017 5:53:58 AM	Notes
6/22/2017 6:34:23 AM	Respiratory Rate
6/22/2017 7:46:42 AM	Quantify IV fluids (mls)
6/22/2017 7:47:07 AM	Respiratory Rate
6/22/2017 7:54:10 AM	Heart Rate (/min)
6/22/2017 7:54:39 AM	Nursing note
6/22/2017 9:53:59 AM	Nursing note
6/22/2017 10:52:03 AM	Respiratory Rate
6/22/2017 10:52:31 AM	Temperature (F)
6/22/2017 10:52:39 AM	Heart Rate (/min)
6/22/2017 10:53:42 AM	Eliminations
6/22/2017 10:55:51 AM	Anesthesia Notes
6/22/2017 11:23:11 AM	Quantify IV fluids (mls)
6/22/2017 11:26:32 AM	Heart Rate (/min)
6/22/2017 11:28:14 AM	Respiratory Rate
6/22/2017 11:57:04 AM	Temperature (F)
6/22/2017 12:47:32 PM	Respiratory Rate
6/22/2017 1:03:39 PM	Eliminations
6/22/2017 1:46:43 PM	Heart Rate (/min)
6/22/2017 1:46:49 PM	Respiratory Rate
6/22/2017 2:51:18 PM	Respiratory Rate
6/22/2017 3:23:43 PM	Quantify IV fluids (mls)
6/22/2017 3:29:26 PM	Amount eaten

B6

	,
Client: Patient:	DU
Patient:	DU

Vitals Results		
6/22/2017 3:32:42 PM	Eliminations	
6/22/2017 3:34:45 PM	Heart Rate (/min)	
6/22/2017 3:54:20 PM	Respiratory Rate	
6/22/2017 3:54:36 PM	Notes	
6/22/2017 4:00:16 PM	Eliminations	
6/22/2017 4:32:14 PM	Respiratory Rate	
6/22/2017 4:53:11 PM	Respiratory Rate	
6/22/2017 5:31:23 PM	Eliminations	
6/22/2017 6:02:43 PM	Respiratory Rate	
6/22/2017 6:03:03 PM	Temperature (F)	
6/22/2017 6:14:36 PM	Heart Rate (/min)	
6/22/2017 7:00:35 PM	Respiratory Rate	
6/22/2017 7:19:26 PM	Eliminations	
6/22/2017 7:44:00 PM	Eliminations	
6/22/2017 7:54:57 PM	Respiratory Rate	
6/22/2017 7:55:15 PM	Heart Rate (/min)	
6/22/2017 7:56:11 PM	Quantify IV fluids (mls)	
6/22/2017 8:18:55 PM	Nursing note	
6/22/2017 9:13:49 PM	Respiratory Rate	
5/22/2017 10:13:58 PM	Eliminations	B6
5/22/2017 10:14:01 PM	Eliminations	
6/22/2017 10:17:22 PM	Heart Rate (/min)	
5/22/2017 10:17:29 PM	Respiratory Rate	
5/22/2017 10:18:11 PM	Amount eaten	
5/22/2017 10:49:12 PM	Respiratory Rate	
6/23/2017 12:15:03 AM	Notes	
6/23/2017 12:16:25 AM	Quantify IV fluids (mls)	
5/23/2017 12:16:38 AM	Respiratory Rate	
5/23/2017 12:16:47 AM	Heart Rate (/min)	
5/23/2017 12:17:44 AM	Notes	
5/23/2017 12:18:01 AM	Eliminations	
5/23/2017 12:45:54 AM	Respiratory Rate	
5/23/2017 1:12:07 AM	Heart Rate (/min)	
5/23/2017 1:12:20 AM	Temperature (F)	
5/23/2017 2:07:00 AM	Respiratory Rate	
6/23/2017 2:57:34 AM	Respiratory Rate	
5/23/2017 3:08:59 AM	Quantify IV fluids (mls)	
6/23/2017 3:09:27 AM	Eliminations	
6/23/2017 3:09:36 AM	Amount eaten	

Page 23/81

Client:	[
Patient:	Ĺ

Vitals Results

6/23/2017 3:16:35 AM	Notes
6/23/2017 4:00:25 AM	Heart Rate (/min)
6/23/2017 4:00:43 AM	Respiratory Rate
6/23/2017 4:16:11 AM	Nursing note
6/23/2017 4:57:44 AM	Respiratory Rate
6/23/2017 6:02:26 AM	Respiratory Rate
6/23/2017 6:02:45 AM	Heart Rate (/min)
6/23/2017 6:52:28 AM	Respiratory Rate
6/23/2017 6:52:51 AM	Eliminations
6/23/2017 6:53:07 AM	Weight (kg)
6/23/2017 6:53:22 AM	Heart Rate (/min)
6/23/2017 6:54:04 AM	Quantify IV fluids (mls)
6/23/2017 7:53:45 AM	Respiratory Rate
6/23/2017 9:12:45 AM	Respiratory Rate
6/23/2017 9:33:36 AM	Heart Rate (/min)
6/23/2017 9:33:44 AM	Respiratory Rate
6/23/2017 9:33:52 AM	Temperature (F)
6/23/2017 9:33:57 AM	Amount eaten
6/23/2017 10:50:22 AM	Quantify IV fluids (mls)
6/23/2017 10:54:22 AM	Nursing note
6/23/2017 11:02:57 AM	Respiratory Rate
6/23/2017 11:13:16 AM	Eliminations
6/23/2017 11:21:24 AM	Heart Rate (/min)
6/23/2017 11:22:18 AM	Respiratory Rate
6/23/2017 1:22:19 PM	Respiratory Rate
6/23/2017 1:23:48 PM	Heart Rate (/min)
6/23/2017 1:58:45 PM	Respiratory Rate
6/23/2017 2:16:37 PM	Eliminations
6/23/2017 2:17:02 PM	Nursing note
6/23/2017 2:49:43 PM	Respiratory Rate
6/23/2017 3:55:36 PM	Quantify IV fluids (mls)
6/23/2017 3:56:08 PM	Notes
6/23/2017 3:56:46 PM	Eliminations
6/23/2017 4:14:11 PM	Respiratory Rate
6/23/2017 4:16:57 PM	Heart Rate (/min)
6/23/2017 4:27:58 PM	Eliminations
6/23/2017 4:57:57 PM	Respiratory Rate
6/23/2017 5:10:34 PM	Eliminations

B6

Page 24/81

Client:	D6
Patient	DU

Vitals	Results
--------	---------

Vitals Results			
6/23/2017 5:14:04 PM	Amount eaten		
6/23/2017 5:29:03 PM	Heart Rate (/min)		
6/23/2017 5:29:10 PM	Temperature (F)		
6/23/2017 5:56:42 PM	Respiratory Rate		
6/23/2017 6:37:55 PM	Respiratory Rate		
6/23/2017 7:15:13 PM	Eliminations		
6/23/2017 7:39:44 PM	Quantify IV fluids (mls)		
6/23/2017 7:41:47 PM	Heart Rate (/min)		
6/23/2017 7:43:21 PM	Respiratory Rate		
6/23/2017 8:23:36 PM	Eliminations		
6/23/2017 9:23:31 PM	Respiratory Rate		
6/23/2017 9:28:01 PM	Heart Rate (/min)		
6/23/2017 9:28:07 PM	Amount eaten		
6/23/2017 10:10:29 PM	Respiratory Rate		
6/23/2017 11:20:09 PM	Respiratory Rate		
6/23/2017 11:38:19 PM	Quantify IV fluids (mls)		
6/23/2017 11:42:07 PM	Eliminations		
6/24/2017 12:12:58 AM	Heart Rate (/min)		
6/24/2017 12:13:10 AM	Respiratory Rate		
6/24/2017 1:07:14 AM	Respiratory Rate		
6/24/2017 1:48:11 AM	Heart Rate (/min)	B6	
6/24/2017 1:48:20 AM	Temperature (F)		
6/24/2017 2:07:07 AM	Respiratory Rate		
6/24/2017 3:07:13 AM	Quantify IV fluids (mls)		
6/24/2017 3:08:02 AM	Eliminations		
6/24/2017 3:10:45 AM	Amount eaten		
6/24/2017 3:12:36 AM	Respiratory Rate		
6/24/2017 3:55:43 AM	Heart Rate (/min)		
6/24/2017 3:55:51 AM	Respiratory Rate		
6/24/2017 4:50:14 AM	Notes		
6/24/2017 5:05:09 AM	Respiratory Rate		
6/24/2017 5:30:06 AM	Nursing note		
6/24/2017 5:30:35 AM	Respiratory Rate		
6/24/2017 5:30:49 AM	Heart Rate (/min)		
6/24/2017 8:52:54 AM	Respiratory Rate		
6/24/2017 8:53:42 AM	Quantify IV fluids (mls)		
6/24/2017 8:53:50 AM	Heart Rate (/min)		
6/24/2017 8:58:15 AM	Eliminations		
6/24/2017 8:59:48 AM	Eliminations		
6/24/2017 9:08:05 AM	Respiratory Rate		
		L	

Page 25/81

Client:
Patient:



Vitals Results

vitais Results	
6/24/2017 9:46:34 AM	Amount eaten
6/24/2017 11:15:30 AM	Quantify IV fluids (mls)
6/24/2017 12:31:06 PM	Eliminations
6/24/2017 3:13:56 PM	Quantify IV fluids (mls)
6/24/2017 3:14:17 PM	Eliminations
6/24/2017 3:17:16 PM	Amount eaten
6/24/2017 7:29:57 PM	Eliminations
6/24/2017 7:31:31 PM	Quantify IV fluids (mls)
6/24/2017 9:15:51 PM	Amount eaten
6/24/2017 9:35:42 PM	Amount eaten
6/24/2017 11:11:15 PM	Quantify IV fluids (mls)
6/24/2017 11:11:24 PM	Eliminations
6/25/2017 2:01:40 AM	Nursing note
6/25/2017 3:30:46 AM	Amount eaten
6/25/2017 3:32:36 AM	Quantify IV fluids (mls)
6/25/2017 3:39:55 AM	Eliminations
6/25/2017 7:39:55 AM	Weight (kg)
6/25/2017 7:40:12 AM	Eliminations
6/25/2017 7:41:25 AM	Quantify IV fluids (mls)
6/25/2017 9:43:47 AM	Weight (kg)
6/25/2017 9:43:57 AM	Eliminations
6/25/2017 9:47:09 AM	Amount eaten
6/25/2017 9:50:24 AM	Quantify IV fluids (mls)
6/25/2017 10:42:19 AM	Temperature (F)
6/25/2017 10:42:31 AM	Notes
6/25/2017 11:59:42 AM	Eliminations
6/25/2017 12:51:44 PM	Heart Rate (/min)
6/25/2017 12:51:45 PM	Respiratory Rate
6/25/2017 1:44:04 PM	Eliminations
6/25/2017 1:44:18 PM	Quantify IV fluids (mls)
6/25/2017 1:55:23 PM	Notes
6/25/2017 1:56:59 PM	Eliminations
6/25/2017 2:02:20 PM	Quantify IV fluids (mls)
6/25/2017 3:28:10 PM	Eliminations
6/25/2017 3:28:25 PM	Heart Rate (/min)
6/25/2017 3:28:26 PM	Respiratory Rate
6/25/2017 3:30:41 PM	Amount eaten
	26/01

B6

Page 26/81

C11.	i
Client:	i
CHCIII.	
	:
D 4. 4	•
Patient:	i
i acionic.	

Vitals Results

6/25/2017 5:18:47 PM	Quantify IV fluids (mls)
6/25/2017 5:18:55 PM	Eliminations
6/25/2017 5:44:04 PM	Notes
6/25/2017 7:45:05 PM	Heart Rate (/min)
6/25/2017 7:45:06 PM	Respiratory Rate
6/25/2017 7:46:46 PM	Eliminations
6/25/2017 9:29:34 PM	Notes
6/25/2017 10:19:35 PM	Eliminations
6/25/2017 10:19:48 PM	Quantify IV fluids (mls)
6/25/2017 10:24:30 PM	Amount eaten
6/25/2017 10:24:48 PM	Temperature (F)
6/25/2017 10:29:29 PM	Nursing note
6/25/2017 11:16:25 PM	Temperature (F)
6/25/2017 11:44:31 PM	Heart Rate (/min)
6/25/2017 11:44:32 PM	Respiratory Rate
6/26/2017 12:23:56 AM	Eliminations
6/26/2017 1:19:56 AM	Notes
6/26/2017 1:20:25 AM	Eliminations
6/26/2017 1:20:38 AM	Quantify IV fluids (mls)
6/26/2017 3:18:28 AM	Heart Rate (/min)
6/26/2017 3:18:29 AM	Respiratory Rate
6/26/2017 3:24:36 AM	Eliminations
6/26/2017 5:19:54 AM	Eliminations
6/26/2017 5:20:05 AM	Notes
6/26/2017 5:20:44 AM	Quantify IV fluids (mls)
6/26/2017 8:03:25 AM	Weight (kg)
6/26/2017 8:03:31 AM	Eliminations
6/26/2017 8:36:52 AM	Temperature (F)
6/26/2017 8:37:03 AM	Heart Rate (/min)
6/26/2017 8:37:04 AM	Respiratory Rate
6/26/2017 9:15:52 AM	Eliminations
6/26/2017 10:03:31 AM	Notes
6/26/2017 11:20:02 AM	Temperature (F)
6/26/2017 11:21:40 AM	Heart Rate (/min)
6/26/2017 11:21:41 AM	Respiratory Rate
6/26/2017 11:28:12 AM	Eliminations
6/26/2017 11:39:28 AM	Amount eaten

B6

Page 27/81

Client:	DC
Patient:	DO

ľ	/ita	ıle	Res	mi	lt c
٦	/ Ita	us.	Nes	u	LO

6/26/2017 1:26:31 PM	Eliminations
6/26/2017 1:27:02 PM	Notes
6/26/2017 4:02:49 PM	Heart Rate (/min)
6/26/2017 4:02:50 PM	Respiratory Rate
2/1/2019 1:48:14 PM	Weight (kg)

Patient History

Patient History		
06/20/2017 10:57 PM	UserForm	
06/20/2017 10:57 PM	UserForm	
06/20/2017 10:57 PM	Email	
06/20/2017 11:15 PM	Treatment	
06/20/2017 11:58 PM	Purchase	
06/21/2017 12:08 AM	Vitals	
06/21/2017 12:08 AM	Purchase	
06/21/2017 12:08 AM	Purchase	
06/21/2017 12:09 AM	Purchase	
06/21/2017 12:09 AM	Purchase	
06/21/2017 12:09 AM	Purchase	
06/21/2017 12:15 AM	Labwork	
06/21/2017 12:21 AM	UserForm	
06/21/2017 01:11 AM	Treatment	
06/21/2017 01:11 AM	Vitals	
06/21/2017 01:14 AM	Treatment	
06/21/2017 01:14 AM	Vitals	
06/21/2017 01:15 AM	Treatment	B6
06/21/2017 01:15 AM	Vitals	
06/21/2017 01:15 AM	Treatment	
06/21/2017 01:15 AM	Vitals	
06/21/2017 01:16 AM	Treatment	
06/21/2017 01:18 AM	Treatment	
06/21/2017 01:51 AM	Vitals	
06/21/2017 01:57 AM	Treatment	
06/21/2017 02:09 AM	Vitals	
06/21/2017 02:13 AM	Purchase	
06/21/2017 02:13 AM	Purchase	
06/21/2017 03:06 AM	Treatment	
06/21/2017 03:06 AM	Vitals	
06/21/2017 03:13 AM	Treatment	
06/21/2017 04:08 AM	Treatment	
06/21/2017 04:08 AM	Vitals	
06/21/2017 04:09 AM	Treatment	
06/21/2017 04:12 AM	Treatment	

Page 28/81

Client: Patient:	B6

Patient History		
06/21/2017 04:15 AM	Treatment	
06/21/2017 04:15 AM	Treatment	
06/21/2017 04:15 AM	Vitals	
06/21/2017 04:15 AM	Treatment	
06/21/2017 04:15 AM	Vitals	
06/21/2017 04:15 AM	Treatment	
06/21/2017 04:15 AM	Vitals	
06/21/2017 04:17 AM	Treatment	
06/21/2017 04:23 AM	Treatment	
06/21/2017 04:52 AM	UserForm	
06/21/2017 04:56 AM	Treatment	
06/21/2017 04:56 AM	Vitals	
06/21/2017 05:29 AM	Treatment	
06/21/2017 05:29 AM	Vitals	
06/21/2017 05:29 AM	Treatment	
06/21/2017 05:29 AM	Vitals	
06/21/2017 08:00 AM	Treatment	
06/21/2017 08:00 AM	Vitals	
06/21/2017 08:05 AM	Treatment	
06/21/2017 08:05 AM	Vitals	
06/21/2017 08:05 AM	UserForm	
06/21/2017 08:05 AM	Treatment	B6
06/21/2017 08:05 AM	Vitals	LU
06/21/2017 08:10 AM	Purchase	
06/21/2017 08:15 AM	Treatment	
06/21/2017 08:15 AM	Vitals	
06/21/2017 08:15 AM	Vitals	
06/21/2017 08:42 AM	Vitals	
06/21/2017 08:48 AM	Purchase	
06/21/2017 08:48 AM	Treatment	
06/21/2017 09:05 AM	Vitals	
06/21/2017 09:07 AM	Purchase	
06/21/2017 09:55 AM	Treatment	
06/21/2017 09:56 AM	Treatment	
06/21/2017 09:56 AM	Vitals	
06/21/2017 10:20 AM	Vitals	
06/21/2017 10:20 AM	Vitals	
06/21/2017 11:08 AM	Treatment	
06/21/2017 11:20 AM	Treatment	
06/21/2017 11:20 AM	Treatment	
06/21/2017 11:20 AM	Treatment	
06/21/2017 11:20 AM	Vitals	
06/21/2017 11:24 AM	Treatment	
06/21/2017 11:28 AM	Treatment	
06/21/2017 11:28 AM	Treatment	
06/21/2017 11:28 AM	Vitals	

Page 29/81

	,
Client:	D6
Patient:	DO
	·

Patient History		
06/21/2017 11:29 AM	Vitals	
06/21/2017 11:57 AM	Treatment	
06/21/2017 11:57 AM	Vitals	
06/21/2017 11:57 AM	Treatment	
06/21/2017 11:57 AM	Vitals	
06/21/2017 12:02 PM	Purchase	
06/21/2017 12:19 PM	Treatment	
06/21/2017 12:33 PM	Purchase	
06/21/2017 12:35 PM	Purchase	
06/21/2017 01:34 PM	Treatment	
06/21/2017 01:34 PM	Vitals	
06/21/2017 01:35 PM	Treatment	
06/21/2017 01:38 PM	Treatment	
06/21/2017 01:42 PM	Treatment	
06/21/2017 01:42 PM	Vitals	
06/21/2017 01:42 PM	Treatment	
06/21/2017 01:42 PM	Vitals	
06/21/2017 02:52 PM	Treatment	
06/21/2017 02:52 PM	Vitals	
06/21/2017 03:47 PM	Treatment	
06/21/2017 03:47 PM	Vitals	
06/21/2017 03:49 PM	Treatment	
06/21/2017 03:49 PM	Vitals	B6
06/21/2017 03:49 PM	UserForm	
06/21/2017 03:50 PM	Vitals	
06/21/2017 03:54 PM	Treatment	
06/21/2017 03:54 PM	Vitals	
06/21/2017 04:25 PM	Treatment	
06/21/2017 04:25 PM	Vitals	
06/21/2017 04:49 PM	Treatment	
06/21/2017 04:51 PM	Vitals	
06/21/2017 05:00 PM	Prescription	
06/21/2017 05:15 PM	Task	
06/21/2017 05:17 PM	Prescription	
06/21/2017 05:17 TM	Treatment	
06/21/2017 05:26 PM	Vitals	
06/21/2017 05:26 PM	Treatment	
06/21/2017 05:26 PM	Vitals	
06/21/2017 05:50 PM	Treatment	
06/21/2017 05:53 PM	Treatment	
06/21/2017 05:53 PM	Vitals	
06/21/2017 06:19 PM	UserForm	
06/21/2017 06:32 PM	UserForm	
06/21/2017 06:53 PM	Treatment	

Page 30/81

i
DC
DU

06/22/2017 01:04 AM

06/22/2017 01:04 AM 06/22/2017 01:04 AM

06/22/2017 01:04 AM

06/22/2017 01:26 AM

06/22/2017 01:26 AM

06/22/2017 02:53 AM 06/22/2017 02:53 AM

06/22/2017 02:55 AM

06/22/2017 03:09 AM

Patient History		
06/21/2017 06:53 PM	Vitals	
06/21/2017 07:02 PM	Treatment	
06/21/2017 07:02 PM	Vitals	
06/21/2017 07:12 PM	Treatment	
06/21/2017 07:13 PM	Treatment	
06/21/2017 07:13 PM	Vitals	
06/21/2017 07:16 PM	Treatment	
06/21/2017 07:16 PM	Vitals	
06/21/2017 07:23 PM	Vitals	
06/21/2017 07:30 PM	Treatment	
06/21/2017 07:30 PM	Vitals	
06/21/2017 07:59 PM	Treatment	
06/21/2017 07:59 PM	Vitals	
06/21/2017 08:58 PM	Treatment	
06/21/2017 08:58 PM	Vitals	
06/21/2017 09:18 PM	Vitals	
06/21/2017 09:30 PM	Treatment	
06/21/2017 09:30 PM	Vitals	
06/21/2017 09:48 PM	Treatment	
06/21/2017 09:48 PM	Vitals	
06/21/2017 10:49 PM	Treatment	
06/21/2017 10:49 PM	Vitals	
06/21/2017 11:01 PM	Treatment	B6
06/21/2017 11:02 PM	Treatment	
06/21/2017 11:02 PM	Vitals	
06/21/2017 11:46 PM	Treatment	
06/21/2017 11:46 PM	Vitals	
06/21/2017 11:46 PM	Treatment	
06/21/2017 11:46 PM	Vitals	
06/22/2017 12:00 AM	Purchase	
06/22/2017 12:00 AM	Purchase	
06/22/2017 12:14 AM	Vitals	
06/22/2017 12:54 AM	Treatment	
06/22/2017 12:54 AM	Vitals	
06/22/2017 12:57 AM	Treatment	
06/22/2017 01:04 AM	Treatment	

Page 31/81

Treatment

Treatment

Treatment

Vitals

Vitals

Vitals Treatment

Vitals

Treatment

Treatment

Client: Patient:	B6
ratient.	

Patient	History
----------------	---------

Patient History		
06/22/2017 03:09 AM	Treatment	
06/22/2017 03:09 AM	Vitals	
06/22/2017 03:09 AM	Treatment	
06/22/2017 03:09 AM	Vitals	
06/22/2017 03:10 AM	Vitals	
06/22/2017 03:35 AM	Treatment	
06/22/2017 03:35 AM	Vitals	
06/22/2017 04:52 AM	Treatment	
06/22/2017 04:52 AM	Vitals	
06/22/2017 04:54 AM	Treatment	
06/22/2017 04:54 AM	Vitals	
06/22/2017 05:53 AM	Treatment	
06/22/2017 05:53 AM	Vitals	
06/22/2017 05:53 AM	Treatment	
06/22/2017 05:53 AM	Vitals	
06/22/2017 06:34 AM	Treatment	
06/22/2017 06:34 AM	Vitals	
06/22/2017 07:46 AM	Treatment	
06/22/2017 07:46 AM	Vitals	
06/22/2017 07:47 AM	Treatment	
06/22/2017 07:47 AM	Vitals	
06/22/2017 07:54 AM	Treatment	
06/22/2017 07:54 AM	Vitals	
06/22/2017 07:54 AM	Vitals	
		B6
06/22/2017 07:54 AM	Vitals	
06/22/2017 09:53 AM	Vitals	
06/00/0017 00 55 AM	D 1	
06/22/2017 09:55 AM	Purchase	
06/22/2017 09:55 AM	Purchase Treatment	
06/22/2017 09:55 AM		
06/22/2017 10:20 AM	Purchase	
06/22/2017 10:52 AM	Treatment	
06/22/2017 10:52 AM	Vitals	
06/22/2017 10:52 AM	Treatment	
06/22/2017 10:52 AM	Vitals	
06/22/2017 10:52 AM	Treatment	
06/22/2017 10:52 AM	Vitals	
06/22/2017 10:53 AM	Vitals	
COLDENZOTT TO.JJ FINI	v rears	
06/22/2017 10:55 AM	Vitals	
		
06/22/2017 10:58 AM	Purchase	
06/22/2017 10:58 AM	Purchase	
06/22/2017 10:58 AM	Purchase	
06/22/2017 11:17 AM	Treatment	
06/22/2017 11:21 AM	Purchase	
		i

Page 32/81

Client:	R6
Patient:	DU

06/22/2017 11:21 AM Treatment 06/22/2017 11:23 AM Vitals 06/22/2017 11:26 AM Treatment 06/22/2017 11:26 AM Vitals 06/22/2017 11:28 AM Vitals 06/22/2017 11:28 AM Vitals 06/22/2017 11:29 AM Prescription 06/22/2017 11:33 AM Purchase 06/22/2017 11:33 AM Prescription 06/22/2017 11:55 AM Treatment 06/22/2017 11:57 AM Vitals 06/22/2017 12:02 PM Purchase 06/22/2017 12:47 PM Vitals 06/22/2017 12:47 PM Vitals 06/22/2017 12:47 PM Vitals 06/22/2017 12:47 PM Vitals 06/22/2017 12:47 PM Vitals	
06/22/2017 11:23 AM Vitals 06/22/2017 11:26 AM Treatment 06/22/2017 11:26 AM Vitals 06/22/2017 11:28 AM Treatment 06/22/2017 11:29 AM Prescription 06/22/2017 11:33 AM Purchase 06/22/2017 11:33 AM Prescription 06/22/2017 11:55 AM Treatment 06/22/2017 11:57 AM Vitals 06/22/2017 12:02 PM Purchase 06/22/2017 12:47 PM Treatment 06/22/2017 12:47 PM Vitals	
06/22/2017 11:23 AM Vitals 06/22/2017 11:26 AM Treatment 06/22/2017 11:26 AM Vitals 06/22/2017 11:28 AM Treatment 06/22/2017 11:29 AM Prescription 06/22/2017 11:33 AM Purchase 06/22/2017 11:33 AM Prescription 06/22/2017 11:55 AM Treatment 06/22/2017 11:57 AM Vitals 06/22/2017 12:02 PM Purchase 06/22/2017 12:47 PM Treatment 06/22/2017 12:47 PM Vitals	
06/22/2017 11:26 AM Treatment 06/22/2017 11:26 AM Vitals 06/22/2017 11:28 AM Treatment 06/22/2017 11:29 AM Prescription 06/22/2017 11:33 AM Purchase 06/22/2017 11:33 AM Prescription 06/22/2017 11:55 AM Treatment 06/22/2017 11:57 AM Vitals 06/22/2017 12:02 PM Purchase 06/22/2017 12:47 PM Treatment 06/22/2017 12:47 PM Vitals 06/22/2017 12:47 PM Vitals	
06/22/2017 11:26 AM Vitals 06/22/2017 11:28 AM Treatment 06/22/2017 11:29 AM Prescription 06/22/2017 11:33 AM Purchase 06/22/2017 11:33 AM Prescription 06/22/2017 11:55 AM Treatment 06/22/2017 11:57 AM Treatment 06/22/2017 12:57 AM Vitals 06/22/2017 12:02 PM Purchase 06/22/2017 12:47 PM Treatment 06/22/2017 12:47 PM Vitals	
06/22/2017 11:28 AM Vitals 06/22/2017 11:29 AM Prescription 06/22/2017 11:33 AM Purchase 06/22/2017 11:33 AM Prescription 06/22/2017 11:55 AM Treatment 06/22/2017 11:57 AM Vitals 06/22/2017 12:02 PM Purchase 06/22/2017 12:47 PM Treatment 06/22/2017 12:47 PM Vitals 06/22/2017 12:47 PM Vitals	
06/22/2017 11:29 AM Prescription 06/22/2017 11:33 AM Purchase 06/22/2017 11:33 AM Prescription 06/22/2017 11:55 AM Treatment 06/22/2017 11:57 AM Vitals 06/22/2017 12:02 PM Purchase 06/22/2017 12:47 PM Treatment 06/22/2017 12:47 PM Vitals 06/22/2017 12:47 PM Vitals	
06/22/2017 11:33 AM Purchase 06/22/2017 11:33 AM Prescription 06/22/2017 11:55 AM Treatment 06/22/2017 11:57 AM Vitals 06/22/2017 12:02 PM Purchase 06/22/2017 12:47 PM Treatment 06/22/2017 12:47 PM Vitals	
06/22/2017 11:33 AM Prescription 06/22/2017 11:55 AM Treatment 06/22/2017 11:57 AM Treatment 06/22/2017 11:57 AM Vitals 06/22/2017 12:02 PM Purchase 06/22/2017 12:47 PM Treatment 06/22/2017 12:47 PM Vitals	
06/22/2017 11:55 AM Treatment 06/22/2017 11:57 AM Treatment 06/22/2017 11:57 AM Vitals 06/22/2017 12:02 PM Purchase 06/22/2017 12:47 PM Treatment 06/22/2017 12:47 PM Vitals	
06/22/2017 11:57 AM Treatment 06/22/2017 11:57 AM Vitals 06/22/2017 12:02 PM Purchase 06/22/2017 12:47 PM Treatment 06/22/2017 12:47 PM Vitals	
06/22/2017 11:57 AM Vitals 06/22/2017 12:02 PM Purchase 06/22/2017 12:47 PM Treatment 06/22/2017 12:47 PM Vitals	
06/22/2017 12:02 PM Purchase 06/22/2017 12:47 PM Treatment 06/22/2017 12:47 PM Vitals	
06/22/2017 12:47 PM Treatment 06/22/2017 12:47 PM Vitals	
06/22/2017 12:47 PM Vitals	
06/22/2017 12:47 PM Vitals	
· · · · · · · · · · · · · · · · · · ·	
06/22/2017 01:03 PM Vitals	
06/22/2017 01:46 PM Treatment	
06/22/2017 01:46 PM Vitals	
06/22/2017 01:46 PM Vitals 06/22/2017 01:46 PM Treatment 06/22/2017 01:46 PM Vitals 06/22/2017 02:51 PM Treatment	
06/22/2017 01:46 PM Vitals	
06/22/2017 02:51 PM Treatment	
06/22/2017 02:51 PM Vitals	
06/22/2017 03:23 PM Treatment	
06/22/2017 03:23 PM Vitals	
06/22/2017 03:29 PM Treatment	
06/22/2017 03:29 PM Vitals	
06/22/2017 03:32 PM Treatment	
06/22/2017 03:32 PM Vitals	
06/22/2017 03:34 PM Treatment	
06/22/2017 03:34 PM Vitals	
06/22/2017 03:54 PM Treatment	
06/22/2017 03:54 PM Vitals	
06/22/2017 03:54 PM Treatment	
06/22/2017 03:54 PM Vitals	
06/22/2017 04:00 PM Vitals	
06/22/2017 04:32 PM Vitals	
06/22/2017 04:32 PM Vitals 06/22/2017 04:53 PM Treatment	
06/22/2017 04:53 PM	
06/22/2017 04.33 PM VItals 06/22/2017 05:31 PM Vitals	
06/22/2017 05:31 PM VItals 06/22/2017 06:02 PM Treatment	
06/22/2017 06:02 PM Vitals	
06/22/2017 06:03 PM Treatment	
06/22/2017 06:03 PM Vitals	

Page 33/81

1	
Client:	D6
Patient:	DU
	L

Patient History		
06/22/2017 06:14 PM	Treatment	
06/22/2017 06:14 PM	Vitals	
06/22/2017 06:40 PM	Treatment	
06/22/2017 07:00 PM	Treatment	
06/22/2017 07:00 PM	Vitals	
06/22/2017 07:19 PM	Vitals	
06/22/2017 07:19 PM	Vitals	
06/22/2017 07:44 PM	Vitals	
06/22/2017 07:51 PM	Treatment	
06/22/2017 07:54 PM	Treatment	
06/22/2017 07:54 PM	Vitals	
06/22/2017 07:55 PM	Treatment	
06/22/2017 07:55 PM	Vitals	
06/22/2017 07:56 PM	Treatment	
06/22/2017 07:56 PM	Vitals	
06/22/2017 08:18 PM	Vitals	
06/22/2017 09:13 PM	Treatment	
06/22/2017 09:13 PM	Vitals	
06/22/2017 10:13 PM	Vitals	
06/22/2017 10:14 PM	Treatment	
06/22/2017 10:14 PM	Vitals	
06/22/2017 10:17 PM	Treatment	
06/22/2017 10:17 PM	Vitals	
06/22/2017 10:17 PM	Treatment	B6
06/22/2017 10:17 PM	Vitals	
06/22/2017 10:18 PM	Treatment	
06/22/2017 10:18 PM	Vitals	
06/22/2017 10:49 PM	Treatment	
06/22/2017 10:49 PM	Vitals	
06/23/2017 12:00 AM	Purchase	
06/23/2017 12:00 AM	Purchase	
06/23/2017 12:15 AM	Treatment	
06/23/2017 12:15 AM	Vitals	
06/23/2017 12:16 AM	Treatment	
06/23/2017 12:16 AM	Vitals	
06/23/2017 12:16 AM	Treatment	
06/23/2017 12:16 AM	Vitals	
06/23/2017 12:16 AM	Treatment	
06/23/2017 12:16 AM	Vitals	
06/23/2017 12:17 AM	Treatment	
06/23/2017 12:17 AM	Treatment	
06/23/2017 12:17 AM	Vitals	
06/23/2017 12:18 AM	Treatment	
06/23/2017 12:18 AM	Vitals	
06/23/2017 12:45 AM	Treatment	
06/23/2017 12:45 AM	Vitals	

Page 34/81

Client: **B6**

Patient	History
---------	---------

Patient History		
06/23/2017 01:12 AM	Treatment	
06/23/2017 01:12 AM	Vitals	
06/23/2017 01:12 AM	Vitals	
06/23/2017 01:12 AM	Treatment	
06/23/2017 01:12 AM	Vitals	
06/23/2017 02:07 AM	Treatment	
06/23/2017 02:07 AM	Vitals	
06/23/2017 02:57 AM	Treatment	
06/23/2017 02:57 AM	Vitals	
06/23/2017 02:57 AM	Vitals	
06/23/2017 03:08 AM	Treatment	
06/23/2017 03:08 AM	Vitals	
06/23/2017 03:09 AM	Treatment	
06/23/2017 03:09 AM	Vitals	
06/23/2017 03:09 AM	Treatment	
06/23/2017 03:09 AM	Vitals	
06/23/2017 03:09 AM	Treatment	
06/23/2017 03:16 AM	Treatment	
06/23/2017 03:16 AM	Vitals	
06/23/2017 03:16 AM	Vitals	
06/23/2017 04:00 AM	Treatment	
06/23/2017 04:00 AM	Vitals	
06/23/2017 04:00 AM	Treatment	Kh
06/23/2017 04:00 AM	Vitals	B6
06/23/2017 04:16 AM	Vitals	
06/23/2017 04:57 AM	Treatment	
06/23/2017 04:57 AM	Vitals	
06/23/2017 06:02 AM	Treatment	
06/23/2017 06:02 AM	Vitals	
06/23/2017 06:02 AM	Treatment	
06/23/2017 06:02 AM	Vitals	
06/23/2017 06:52 AM	Treatment	
06/23/2017 06:52 AM	Vitals	
06/23/2017 06:52 AM	Vitals	
06/23/2017 06:52 AM	Treatment	
06/23/2017 06:52 AM	Vitals	
06/23/2017 06:53 AM	Treatment	
06/23/2017 06:53 AM	Vitals	
06/23/2017 06:53 AM	Treatment	
06/23/2017 06:53 AM	Vitals	
06/23/2017 06:54 AM	Treatment	
06/23/2017 06:54 AM	Vitals	
06/23/2017 07:53 AM	Treatment	
06/23/2017 07:53 AM	Vitals	
06/23/2017 08:45 AM	Purchase	
06/23/2017 09:12 AM	Vitals	
06/23/2017 09:22 AM	Treatment	
06/23/2017 09:33 AM	Treatment	

Page 35/81

Patient History		
06/23/2017 09:33 AM	Vitals	
06/23/2017 09:33 AM	Treatment	
06/23/2017 09:33 AM	Vitals	
06/23/2017 09:33 AM	Treatment	
06/23/2017 09:33 AM	Vitals	
06/23/2017 09:33 AM	Treatment	
06/23/2017 09:33 AM	Vitals	
06/23/2017 09:36 AM	Prescription	
06/23/2017 09:37 AM	Purchase	
06/23/2017 09:45 AM	Prescription	
06/23/2017 10:50 AM	Treatment	
06/23/2017 10:50 AM	Vitals	
06/23/2017 10:54 AM	Vitals	
06/23/2017 11:02 AM	Treatment	
06/23/2017 11:02 AM	Vitals	
06/23/2017 11:13 AM	Treatment	
06/23/2017 11:13 AM	Vitals	
06/23/2017 11:18 AM	Treatment	
06/23/2017 11:18 AM	Treatment	
06/23/2017 11:21 AM	Treatment	B6
06/23/2017 11:21 AM	Vitals	
06/23/2017 11:22 AM	Treatment	
06/23/2017 11:22 AM	Vitals	
06/23/2017 12:02 PM	Purchase	
06/23/2017 01:22 PM	Treatment	
06/23/2017 01:22 PM	Vitals	
06/23/2017 01:23 PM	Treatment	
06/23/2017 01:23 PM	Vitals	
06/23/2017 01:58 PM	Treatment	
06/23/2017 01:58 PM	Vitals	
06/23/2017 02:16 PM	Vitals	
06/23/2017 02:17 PM	Vitals	
06/23/2017 02:49 PM	Treatment	
06/23/2017 02:49 PM	Vitals	
06/23/2017 03:47 PM	Treatment	
06/23/2017 03:55 PM	Treatment	
06/23/2017 03:55 PM	Treatment	
06/23/2017 03:55 PM	Vitals	
06/23/2017 03:56 PM	Treatment	
06/23/2017 03:56 PM	Vitals	
06/23/2017 03:56 PM	Treatment	
06/23/2017 03:56 PM	Vitals	
06/23/2017 04:14 PM	Treatment	
06/23/2017 04:14 PM	Vitals	
06/23/2017 04:16 PM	Treatment	

Page 36/81

Client: Patient:	Rh

P	atient	History

Patient History		
06/23/2017 04:16 PM	Vitals	
06/23/2017 04:27 PM	Vitals	
06/23/2017 04:57 PM	Treatment	
06/23/2017 04:57 PM	Vitals	
06/23/2017 05:06 PM	Prescription	
06/23/2017 05:07 PM	Prescription	
06/23/2017 05:09 PM	Prescription	
06/23/2017 05:10 PM	Vitals	
06/23/2017 05:14 PM	Treatment	
06/23/2017 05:14 PM	Vitals	
06/23/2017 05:14 PM	Vitals	
06/23/2017 05:17 PM	Treatment	
06/23/2017 05:29 PM	Treatment	
06/23/2017 05:29 PM	Vitals	
06/23/2017 05:29 PM	Treatment	
06/23/2017 05:29 PM	Vitals	
06/23/2017 05:56 PM	Treatment	
06/23/2017 05:56 PM	Vitals	
06/23/2017 06:37 PM	Treatment	
06/23/2017 06:37 PM	Vitals	
06/23/2017 07:15 PM	Vitals	
06/23/2017 07:36 PM	Treatment	
06/23/2017 07:36 PM	Treatment	B6
06/23/2017 07:39 PM	Treatment	
06/23/2017 07:39 PM	Treatment	
06/23/2017 07:39 PM	Vitals	
06/23/2017 07:41 PM	Treatment	
06/23/2017 07:41 PM	Vitals	
06/23/2017 07:43 PM	Treatment	
06/23/2017 07:43 PM	Vitals	
06/23/2017 08:23 PM	Treatment	
06/23/2017 08:23 PM	Vitals	
06/23/2017 08:59 PM	Treatment	
06/23/2017 09:23 PM	Treatment	
06/23/2017 09:23 PM	Vitals	
06/23/2017 09:28 PM	Treatment	
06/23/2017 09:28 PM	Vitals	
06/23/2017 09:28 PM	Treatment	
06/23/2017 09:28 PM	Vitals	
06/23/2017 10:10 PM	Treatment	
06/23/2017 10:10 PM	Vitals	
06/23/2017 11:20 PM	Treatment	
06/23/2017 11:20 PM	Vitals	
06/23/2017 11:38 PM	Treatment	
06/23/2017 11:38 PM 06/23/2017 11:38 PM	Vitals Treatment	
00/23/201/ 11.38 FW	Heatment	

Page 37/81

Client:	DC
Patient:	DO

Patient History

06/23/2017 11:42 PM	Treatment
06/23/2017 11:42 PM	Vitals
06/24/2017 12:00 AM	Purchase
06/24/2017 12:00 AM	Purchase
06/24/2017 12:12 AM	Treatment
06/24/2017 12:12 AM	Vitals
06/24/2017 12:13 AM	Treatment
06/24/2017 12:13 AM	Vitals
06/24/2017 01:07 AM	Treatment
06/24/2017 01:07 AM	Vitals
06/24/2017 01:48 AM	Treatment
06/24/2017 01:48 AM	Vitals
06/24/2017 01:48 AM	Treatment
06/24/2017 01:48 AM	Vitals
06/24/2017 02:07 AM	Treatment
06/24/2017 02:07 AM	Vitals
06/24/2017 03:07 AM	Treatment
06/24/2017 03:07 AM	Vitals
06/24/2017 03:08 AM	Treatment
06/24/2017 03:08 AM	Vitals
06/24/2017 03:10 AM	Treatment
06/24/2017 03:10 AM	Vitals
06/24/2017 03:12 AM	Treatment
06/24/2017 03:12 AM	Vitals
06/24/2017 03:55 AM	Treatment
06/24/2017 03:55 AM	Treatment
06/24/2017 03:55 AM	Vitals
06/24/2017 03:55 AM	Treatment
06/24/2017 03:55 AM	Vitals
06/24/2017 04:48 AM	Treatment
06/24/2017 04:50 AM	Treatment
06/24/2017 04:50 AM	Vitals
06/24/2017 05:05 AM	Treatment
06/24/2017 05:05 AM	Vitals
06/24/2017 05:30 AM	Vitals
06/24/2017 05:30 AM	Treatment
06/24/2017 05:30 AM	Vitals
06/24/2017 05:30 AM	Treatment
06/24/2017 05:30 AM	Vitals
06/24/2017 08:52 AM	Treatment
06/24/2017 08:52 AM	Vitals
06/24/2017 08:53 AM	Treatment
06/24/2017 08:53 AM	Treatment
06/24/2017 08:53 AM	Vitals
06/24/2017 08:53 AM	Treatment
06/24/2017 08:53 AM	Vitals

B6

Page 38/81

D6
DU

Patient History		
06/24/2017 08:58 AM	Treatment	
06/24/2017 08:58 AM	Vitals	
06/24/2017 08:59 AM	Vitals	
06/24/2017 09:08 AM	Vitals	
06/24/2017 09:39 AM	Purchase	
06/24/2017 09:46 AM	Treatment	
06/24/2017 09:46 AM	Treatment	
06/24/2017 09:46 AM	Vitals	
06/24/2017 11:15 AM	Treatment	
06/24/2017 11:15 AM	Treatment	
06/24/2017 11:15 AM	Vitals	
06/24/2017 11:48 AM	Prescription	
06/24/2017 12:02 PM	Purchase	
06/24/2017 12:30 PM	Treatment	
06/24/2017 12:30 PM	Vitals	
06/24/2017 12:30 PM	Vitals	DC
06/24/2017 12:30 PM	Vitals	B6
06/24/2017 12:30 PM	Vitals	
06/24/2017 12:30 PM	Vitals	
06/24/2017 12:31 PM	Treatment	
06/24/2017 12:31 PM	Vitals	
06/24/2017 03:13 PM	Treatment	
06/24/2017 03:13 PM	Vitals	
06/24/2017 03:14 PM	Treatment	
06/24/2017 03:14 PM	Vitals	
06/24/2017 03:17 PM	Treatment	
06/24/2017 03:17 PM	Vitals	
06/24/2017 05:42 PM	Prescription	
06/24/2017 06:20 PM	Prescription	
06/24/2017 06:25 PM	Treatment	
06/24/2017 07:29 PM	Treatment	
06/24/2017 07:29 PM	Treatment	
		<u></u>

Page 39/81

	·
	i
C11:4.	i
Client:	
CII CII.	:
	!
Patient:	i
rauent.	i

Patient History		,
06/24/2017 07:29 PM	Treatment	
06/24/2017 07:29 PM	Vitals	
06/24/2017 07:31 PM	Treatment	
06/24/2017 07:31 PM	Vitals	
06/24/2017 07:31 PM	Treatment	
06/24/2017 09:15 PM	Treatment	
06/24/2017 09:15 PM	Vitals	
06/24/2017 09:35 PM	Vitals	
06/24/2017 11:11 PM	Treatment	
06/24/2017 11:11 PM	Vitals	
06/24/2017 11:11 PM	Treatment	
06/24/2017 11:11 PM	Vitals	
06/25/2017 12:00 AM	Purchase	
06/25/2017 12:00 AM	Purchase	
06/25/2017 02:01 AM	Vitals	
06/25/2017 03:30 AM	Treatment	
06/25/2017 03:30 AM	Vitals	
06/25/2017 03:31 AM	Treatment	
06/25/2017 03:32 AM	Treatment	
06/25/2017 03:32 AM	Vitals	
06/25/2017 03:32 AM	Treatment	
06/25/2017 03:39 AM	Vitals	B6
06/25/2017 07:39 AM	Vitals	
06/25/2017 07:40 AM	Treatment	
06/25/2017 07:40 AM	Vitals	
06/25/2017 07:41 AM	Treatment	
06/25/2017 07:41 AM	Vitals	
06/25/2017 08:38 AM	Treatment	
06/25/2017 09:11 AM	Treatment	
06/25/2017 09:43 AM	Treatment	
06/25/2017 09:43 AM	Vitals	
06/25/2017 09:43 AM	Treatment	
06/25/2017 09:43 AM	Vitals	
06/25/2017 09:47 AM	Treatment	
06/25/2017 09:47 AM	Vitals	
06/25/2017 09:50 AM	Treatment	
06/25/2017 09:50 AM	Vitals	
06/25/2017 10:42 AM	Treatment	
06/25/2017 10:42 AM	Vitals	
06/25/2017 10:42 AM	Treatment	
06/25/2017 10:42 AM	Vitals	
06/25/2017 11:41 AM	Prescription	
06/25/2017 11:59 AM	Treatment	

Page 40/81

Client:	RG
Patient:	DU
	L

Patient History

Patient History		
06/25/2017 11:59 AM	Vitals	
06/25/2017 12:02 PM	Purchase	
06/25/2017 12:10 PM	Purchase	
06/25/2017 12:51 PM	Treatment	
06/25/2017 12:51 PM	Treatment	
06/25/2017 12:51 PM	Vitals	
06/25/2017 12:51 PM	Vitals	
06/25/2017 01:44 PM	Treatment	
06/25/2017 01:44 PM	Vitals	
06/25/2017 01:44 PM	Treatment	
06/25/2017 01:44 PM	Vitals	
06/25/2017 01:55 PM	Treatment	
06/25/2017 01:55 PM	Vitals	
06/25/2017 01:56 PM	Vitals	
06/25/2017 02:02 PM	Treatment	
06/25/2017 02:02 PM	Treatment	
06/25/2017 02:02 PM	Vitals	
06/25/2017 02:08 PM	Treatment	
06/25/2017 03:28 PM	Treatment	
06/25/2017 03:28 PM	Vitals	
06/25/2017 03:28 PM	Treatment	
06/25/2017 03:28 PM	Vitals	B6
06/25/2017 03:28 PM	Vitals	
06/25/2017 03:28 PM	Vitals	
06/25/2017 03:28 PM 06/25/2017 03:30 PM	Treatment	
06/25/2017 03:30 PM	Vitals	
00/23/2017 03.30 FWI	vitais	
06/25/2017 05:18 PM	Treatment	
06/25/2017 05:18 PM	Vitals	
06/25/2017 05:18 PM	Treatment	
06/25/2017 05:18 PM	Vitals	
06/25/2017 05:14 PM	Treatment	
06/25/2017 05:44 PM	Vitals	
06/25/2017 05:44 PM	Treatment	
00/25/2017 05.111111	Treatment	
06/25/2017 07:44 PM	Treatment	
06/25/2017 07:45 PM	Treatment	
06/25/2017 07:45 PM	Treatment	
06/25/2017 07:45 PM	Vitals	
06/25/2017 07:45 PM	Vitals	
06/25/2017 07:46 PM	Treatment	
06/25/2017 07:46 PM	Vitals	
06/25/2017 09:29 PM	Treatment	
06/25/2017 09:29 PM	Vitals	
00,20,201, 09.2911	v rearb	

Page 41/81

	i
Client:	R6
Patient:	DU
	l

	P	atient	History
--	---	--------	---------

06/25/2017 10:19 PM	Treatment	
06/25/2017 10:19 PM	Vitals	
06/25/2017 10:19 PM	Treatment	
06/25/2017 10:19 PM	Vitals	
06/25/2017 10:24 PM	Treatment	
06/25/2017 10:24 PM	Treatment	
06/25/2017 10:24 PM	Vitals	
06/25/2017 10:24 PM	Treatment	
06/25/2017 10:24 PM	Vitals	
06/25/2017 10:24 TM	Vitals	
00/23/2017 10.29 1 WI	vitais	
06/25/2017 10:29 PM	Vitals	
06/25/2017 11:16 PM	Vitals	
06/25/2017 11:44 PM	Treatment	
06/25/2017 11:44 PM	Vitals	
06/25/2017 11:44 PM	Vitals	
06/25/2017 11:45 PM	Treatment	
06/26/2017 12:00 AM	Purchase	
06/26/2017 12:00 AM	Purchase	
06/26/2017 12:20 AM	Treatment	
06/26/2017 12:23 AM	Treatment	
06/26/2017 12:23 AM	Vitals	B6
06/26/2017 01:19 AM	Treatment	
06/26/2017 01:19 AM	Vitals	
06/26/2017 01:20 AM	Treatment	
06/26/2017 01:20 AM	Vitals	
06/26/2017 01:20 AM	Treatment	
06/26/2017 01:20 AM	Vitals	
06/26/2017 03:18 AM	Treatment	
06/26/2017 03:18 AM	Vitals	
06/26/2017 03:18 AM	Vitals	
06/26/2017 03:24 AM	Treatment	
06/26/2017 03:24 AM	Vitals	
06/26/2017 05:19 AM	Treatment	
00,20,2011 00.19 1 HVI	Houmont	
06/26/2017 05:19 AM	Vitals	
06/26/2017 05:20 AM	Treatment	
06/26/2017 05:20 AM	Vitals	
06/26/2017 05:20 AM	Treatment	
06/26/2017 05:20 AM	Vitals	
06/26/2017 08:03 AM	Treatment	
06/26/2017 08:03 AM	Vitals	
06/26/2017 08:03 AM	Treatment	
06/26/2017 08:03 AM	Vitals	
06/26/2017 08:36 AM	Treatment	
06/26/2017 08:36 AM	Vitals	

Page 42/81

<u></u>		
Patient History		
06/26/2017 08:37 AM	Treatment	
06/26/2017 08:37 AM	Vitals	
06/26/2017 08:37 AM	Vitals	
06/26/2017 08:40 AM	Treatment	
06/26/2017 08:40 AM	Treatment	
06/26/2017 09:15 AM	Treatment	
06/26/2017 09:15 AM	Vitals	
06/26/2017 09:17 AM	Treatment	
06/26/2017 10:03 AM	Treatment	
06/26/2017 10:03 AM	Treatment	
06/26/2017 10:03 AM	Vitals	
06/26/2017 11:20 AM	Treatment	
06/26/2017 11:20 AM	Vitals	
06/26/2017 11:21 AM	Treatment	
06/26/2017 11:21 AM	Vitals	
06/26/2017 11:21 AM	Vitals	
06/26/2017 11:28 AM	Treatment	
06/26/2017 11:28 AM	Vitals	
06/26/2017 11:34 AM	Purchase	
06/26/2017 11:35 AM	Treatment	
06/26/2017 11:39 AM	Treatment	B6
06/26/2017 11:39 AM	Vitals	
06/26/2017 11:54 AM	Purchase	
06/26/2017 12:02 PM	Purchase	
06/26/2017 01:26 PM	Treatment	
06/26/2017 01:26 PM	Vitals	
06/26/2017 01:27 PM	Treatment	
06/26/2017 01:27 PM	Vitals	
06/26/2017 02:23 PM	UserForm	
06/26/2017 03:40 PM	Prescription	
06/26/2017 03:40 PM	Prescription	
06/26/2017 03:41 PM	Prescription	
06/26/2017 03:41 PM	Purchase	
06/26/2017 04:02 PM	Treatment	
06/26/2017 04:02 PM	Vitals	
06/26/2017 04:02 PM	Vitals	
06/26/2017 04:14 PM	Purchase	
06/26/2017 04:15 PM	Treatment	
07/02/2017 05:02 PM	Prescription	
07/10/2017 05:37 PM	Task	

Page 43/81

Patient History

/14/2019 12:25 PM	Purchase	
/14/2019 12:30 PM	Prescription	
14/2019 01:23 PM	Email	
4/2019 01:23 PM	UserForm	
8/2019 03:57 PM	Appointment	
/2019 04:00 PM	Appointment	
/2019 04:01 PM	Appointment	B6
2019 08:00 AM	UserForm	
1/2019 08:01 AM	UserForm	
/2019 01:18 PM	Treatment	
2019 01:31 PM	UserForm	
/2019 01:48 PM	Vitals	į
2019 01:50 PM	Purchase	
/2019 02:27 PM	UserForm	
1/2019 02:57 PM	Appointment	
01/2019 02:58 PM	Prescription	
1/2019 04:34 PM	Purchase	
/2019 04:34 PM	Purchase	
		į





Cummings Veterinary Medical Center

B6

B6 Male (Neutered)
Canine Golden Retriever Golden
Patient ID: 394674

STANDARD CONSENT FORM

Lam the owner, or agent for the owner, of the above described animal and have the authority to execute consent. It hereby authorize the Cummings School of Veterinary Medicine at Tults University (herein after Cummings School) to prescribe for treatment of said animal according to the following terms and conditions.

Cummings School and its officers, agents and employees will provide such veterinary medical care as they deem reasonable and appropriate under the circumstances.

Cummings School and its officers, agents, and employees will use all reasonable care in the treatment of the above mentioned animal, but will not be liable for any loss or accident that may occur or any disease that may develop as a result of the care and treatment provided.

I understand that the above identified animal may be treated by Cummings School students under the supervision and assistance of Cummings School staff members.

In executing this form, I hereby expressly adknowledge that risks, benefits and alternative forms of treatment have been explained to me. I understand said explanation, and I consent to treatment. Should any additional treatments or diagnostics be required during the continued care of my animal, I understand that I will be given the opportunity to discuss and consent to these additional procedures. I understand that further or additional treatment may be required without an opportunity for discussion and consideration by me, in the case of the development of any life-threatening emergency during the continued care of my animal and I expressly consent to all such reasonable treatment as required. I realize and understand that results cannot be guaranteed.

If any equipment is left with the animal, it will be accepted with the understanding that Cummings School assumes no responsibility for any loss of equipment that may occur.

I agree to pick up the animal when notified that it is ready for release.

In the event the animal is not picked up, and if ten (10) days have expired since a registered letter was sent to the address given above, notifying me to call for the animal, the animal may be sold or otherwise disposed of in a humane manner and the proceeds applied to the charges incurred in caring and treating the animal. Failure to remove said animal will not and does not relieve me from obligation for the costs of services rendered.

I hereby grant to the Cummings School of Veterinary Medicine at Tuffs University, its officers and employees (collectively referred to herein as Cummings School), and its agents and assigns (the Grantees) the irrevocable rights to photograph / videotape the operation or procedure to be performed, including appropriate and otherwise use such photographs and images for, and in connection with, a Grantee's medical, scientific, educational, and publicity purposes, by any means, methods and media (print and electronic) now known or, in the future, developed that the Grantee deems appropriate (provided that such photographs and images may not be used in for-profit commercials, unless such commercials are publicizing educational programs at Cummings School). As medical and surgical treatment necessitates the removal of tissue, cells, fluids or body parts of my animal, I authorize the Grantees to dispose of or use these tissues, cells, fluids or body parts for scientific and educational purposes.

Lunderstand that a FINANCE CHARGE will be applied to all accounts unpaid after 30 days. The FINANCE CHARGE is computed on a monthly rate of 1.33% per month, which is an annual percentage rate of 1.6% applied to the average daily balance outstanding, with a minimum fee of \$50.

I do further agree that should any payment, or the full amount of the sum stated above, become overdue more than 20 days from the above agreed upon time of payment or payments, the entire balance shall be considered in default and become due and payable. I further agree to be responsible for any or all collection agency and/or attorney fees necessary to collect the full amount.

I do further agree to comply with hours of visitation in conjunction with our Hospital's policy.

I have read, understand, and agree to accept the terms and conditions herein.

Town/City

State

Ziρ

Owner's name B6 Date: 6/20/2017	
Owner's address: B6	
Owner's Name Signature	- Date
	nal is someone other than the legal owner, te the portion below:
The owner of the anima B6 has granted me au pay the veterinary medical services provided at Cummir	thority to obtain medical treatment and to bind this owner to gs School pursuant to the terms and conditions described above
Authorized Agent - Please Print	Agent's Signature
Street Address	Date



B6

B6 Male (Neutered)

Canine Golden Retriever Golden Patient ID: 394674

STANDARD CONSENT FORM

I am the owner, or agent for the owner, of the above described animal and have the authority to execute consent. I hereby authorize the Cummings School of Veterinary Medicine at Tults University (herein after Cummings School) to prescribe for treatment of said animal according to the following terms and conditions.

Cummings School and its officers, agents and employees will provide such veterinary medical care as they deem reasonable and appropriate under the circumstances.

Cummings School and its officers, agents, and employees will use all reasonable care in the treatment of the above mentioned animal, but will not be liable for any loss or accident that may occur or any disease that may develop as a result of the care and treatment provided.

I understand that the above identified animal may be treated by Cummings School students under the supervision and assistance of Cummings School staff members.

In executing this form, I hereby expressly adknowledge that risks, benefits and alternative forms of treatment have been explained to me. I understand said explanation, and I consent to treatment. Should any additional treatments or diagnostics be required during the continued care of my animal, I understand that I will be given the opportunity to discuss and consent to these additional procedures. I understand that further or additional treatment may be required without an opportunity for discussion and consideration by me, in the case of the development of any life-threatening emergency during the continued care of my animal and I expressly consent to all such reasonable treatment as required. I realize and understand that results cannot be guaranteed.

If any equipment is left with the animal, it will be accepted with the understanding that Cummings School assumes no responsibility for any loss of equipment that may occur.

I agree to pick up the animal when notified that it is ready for release.

In the event the animal is not picked up, and if ten (10) days have expired since a registered letter was sent to the address given above, notifying me to call for the animal, the animal may be sold or otherwise disposed of in a humane manner and the proceeds applied to the charges incurred in caring and treating the animal. Failure to remove said animal will not and does not relieve me from obligation for the costs of services rendered.

I hereby grant to the Cummings School of Veterinary Medicine at Tufts University, its officers and employees (collectively referred to herein as Cummings School), and its agents and assigns (the Grantees) the irrevocable rights to photograph / videotape the operation or procedure to be performed, including appropriate and otherwise use such photographs and images for, and in connection with, a Grantee's medical, scientific, educational, and publicity purposes, by any means, methods and media (print and electronic) nowlenown or, in the future, developed that the Grantee deems appropriate (provided that such photographs and images may not be used in for-profit commercials, unless such commercials are publicizing educational programs at Cummings School). As medical and surgical treatment necessitates the removal of tissue, cells, fluids or body parts of my animal, I authorize the Grantees to dispose of or use these tissues, cells, fluids or body parts for scientific and educational purposes.

Lunderstand that a FINANCE CHARGE will be applied to all accounts unpaid after 30 days. The FINANCE CHARGE is computed on a monthly rate of 1.33% per month, which is an annual percentage rate of 1.6% applied to the average daily balance outstanding, with a minimum fee of \$50.

I do further agree that should any payment, or the full amount of the sum stated above, become overdue more than 20 days from the above agreed upon time of payment or payments, the entire balanceshall be considered in default and become due and payable. I further agree to be responsible for any or all collection agency and/or attorney fees necessary to collect the full amount.

I do further agree to comply with hours of visitation in conjunction with our Hospital's policy.

I have read, understand, and agree to accept the terms and conditions herein.

Town/City

State

Ziρ

Owner's names B6	Date: 6/20/2017			
Owner's address:	B6			
В	6	6/20/17		
Owner's Name Signature		Date		
fthe	_	nimal is someone other than the legal owner, plete the portion below:		
		facte me ba mai neuve		
The owner of the anima	B6 has granted me	authority to obtain medical treatment and to bind this owner to		
pay the veterinary medic	al services provided at Cum	mings School pursuant to the terms and conditions described above		
Authorized Agent - Please	- Print	Agent's Signature		
Street Address		Date		



Treatment Plan

Estimated Charges 06/20/2017

Foster Hospital for Small Animals

SS Willard Street North Grafton MA 01536 (508) 839-5395 http://vetmed.tufts.edu/

B6

This estimate is based upon our preliminary examination. This is an estimate and is not the final bill. Every effort will be made to keep you informed of the current status of your bill throughout your animal's hospitalization. The final fee may vary considerably from this estimated cost.

Patient Description Low City Low Extended High City High Extended B6 1.65

Doctor of Record B6

Client Signature

| Iunderstand that no guarantee of successful treatment is made. I certify that I have read and fully understand the authorization for medical and/or surgical breatment, the reason for why such medical and/or surgical breatment is considered necessary, as well as it is downtaged and possible complications. If any I also assume financial responsibility for all dranges incurred to the patient(s). I agree to pay 75% of the eath maked cost at the time of admission. Additional deposits will be required if additional care or procedures. I further signed in part the biasence of the charges when this patient(s) is released. I further signed if the patient(s) is released. I further signed in the patient(s) is released and part to extend the specified duration. There will be additional expenses if hospitalization extends beyond the specified duration.

Thank you for entirusting us with your pets care.

Page 1/1

Printed Wednesday, June 21, 2017

Cummings Veterinary Medical Center

Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-8739 http://wetmed.tufts.edu/

Radiology Request & Report

Patient	Owner		
Name: B6	Names	B6	Patient II): B6
Species: Canine	Address	B6	Date of request: 6/21/2017
Golden Male (Neutered) Golden	<u></u>	D0	
Retriever Birthdate: B6			
Attending Clinician:	В6		Student:
DOPLICATE FORM			
Date of exam: 6/21/2017			
Patient Location: Ward/Cage:	ICU R2		Weight (kg) 36.00
	S	edation	
Inpatient		BAG	
Outpatient Time:		■ OBAG	
■ Waiting		■ 1/2 dose OE	BAG
Emergency		DexDomitor	/Butorphanol
		Anesthesia :	to sedate/anesthetize
Examination Desired:			
three view thorax			
Presenting Complaint and Clini	_	-	
Emergency - presented with up	per airway o	bstruction, poter	itial tieback today
Pertinent History:			
Findings			
Condusions:			
Radiologists			
Primary:			
Reviewing:			
Dates			
Reported:			
Finalized:			

Cummings Veterinary Medical Center

Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-8739 http://wetmed.turksedu/

36	
Male (Neu	tered)
olden Retrie	ver Golden

Biopsy Request

Doctor to serve a	as contact: B6
(if primary contact is	s not arailable during business hours, provide a secondary contact, as well)
Phone/pager B	36
Email:	B6
Total# of anatomi	ic sites sampled (each site will be charged separately): 1
Total# of separate	e containers submitted: 1
Images sent to p Yes No	athpics@tufts.edu?
pathology and diagr mass at base of ton	g and nasal disharge at home followed by acute respiratory crisis and admitted here
CLINICAL DIAG abscess vs. neoplasi	ENOSES/DIFFERENTIALS: ia
CONTAINER 1.	(In addition to site specific history include number of tissue pieces):
CONTAINER 2.	(in addition to site specific history include number of tissue pieces):
CONTAINER 3.	(in addition to site specific history include number of tissue pieces):



Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-8739 http://wetmed.turks.edu/

CT Request & Report

Patient	Owner		
Name: B6	Name	B6	Patient II): B6
Species: Canine	Address	B6	Date of request: 6/21/2017
Golden Male (Neutered) Golden	<u>l_</u> .	ЪО	
Retriever			
Birthdate: B6			
Attending Clinician:	B6		Student:
Date of exam: 6/21/2017			
Patient Location: Ward/Cage:	ICU R2		Weight (kg) 36.00
Scheduling and Patient Notes:		B6	
	i		
Examination Desired:	B6]	
<u> </u>		.2	
Sedation Anesthesia to sedate/a DexDomitor/Butorphan Autoanesthesia Presenting Complaint and Clin	ol ical Questic	B6	swer: Emergency
		B6	
Findings.			
		B6	
·			



_		_	
ь.		 	
п	Ot	ш	_

Aspiration of the B6 nass was performed with no immediate complications

Radiologists

Primary: B6
Reviewing: B6

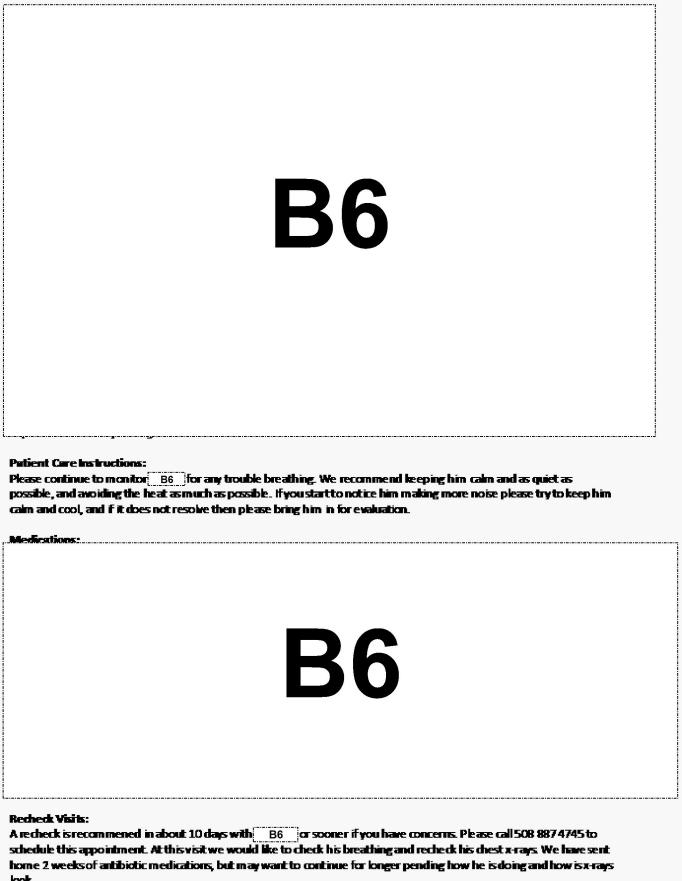
Dates

Reported: 6.22.2017 Finalized: 6.22.2017

Emergency & Critical Care Liaison: (508) 887 - 4745

Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-8739 http://wetmed.tults.edu/

Sent		Owner	
me 86 nalment: 86 Golden	Mak	Name: Address:	B6
eutered) Golden Retriever			D 0
Sent ID: 394674			
nicium B6 Resident, En nicium B6 (Resident, C	nergency & Critical Care)		
·			
R Supervisor:			··
	B6		
	_		
	Oischarge Instruction	D ins	
Admit Date: 6/20/2017 1055:1	2 PM		
Admit Date: 6/20/2017 1055:1 Check Out Date: 6/26/2017	2 PM		
Check Out Date: 6/26/2017	2 PM		
	2 PM		
Check Out Date: 6/26/2017 Case Summary			
Check Out Date: 6/26/2017 Case Summary			
Check Out Date: 6/26/2017 Case Summary	² РМ В6		
Check Out Date: 6/26/2017 Case Summary Diagnosis:			
Check Out Date: 6/26/2017 Case Summary			
Check Out Date: 6/26/2017 Case Summary Diagnosis:			
Check Out Date: 6/26/2017 Case Summary Diagnosis:			
Check Out Date: 6/26/2017 Case Summary Diagnosis:			
Check Out Date: 6/26/2017 Case Summary Diagnosis:			
Check Out Date: 6/26/2017 Case Summary Diagnosis:	B6		
Check Out Date: 6/26/2017 Case Summary Diagnosis:	B6		
Check Out Date: 6/26/2017 Case Summary Diagnosis:			
Check Out Date: 6/26/2017 Case Summary Diagnosis:	B6		
Check Out Date: 6/26/2017 Case Summary Diagnosis:	B6		
Check Out Date: 6/26/2017 Case Summary Diagnosis:	B6		



look.

powel
Prescriptive Refit Disdriver:
For the safety and well-being of our patients, your pet must have had an examination by one of our veterinarians within the past year in order to obtain prescription medications.
Ordering Food:
Please check with your primary veterinarian to purchase the recommended diet(s). If you wish to purchase your food from us, please call 7-10 days in advance (508-887-4629) to ensure the food is in stock. Alternatively, veterinary diets can be ordered from online retailers with a prescription/reterinary approval.
Clinical Trials:
Clinical trials are studies in which our veterinary doctors work with you and your pet to investigate a specific disease process or a promising new test or treatment. Please see our website: <u>vet.tufts.edu/omc/clinical-studies</u>

Discharge Instructions

Owner: B6

Case: B6

Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-8739 http://wetmed.tufts.edu/

Radiology Request & Report

<u>Patient</u>	Owner		_
Maine: B6	Name: B	6	Patient ID: 394674
Species: Canine	Address	B6	Date of request: 6/26/2017
Golden Male (Neutered) Golden	İ	<u> </u>	<u></u> j
Retriever			
Birthdate: B6			
Attending Clinician: B6	Stude	ent	
Date of exam: 6/26			
Patient Location: Ward/Cage:	A run		Weight (kg) 36.00
	_		
	Se	detion	
<u> </u>		BAG	
Outpatient Time:		OBAG	
Waiting		<u>■</u> 1/2 dose 0	
Emergency		DexDomito	or/Butorphanol
		Anesthesia	to sedate/anesthetize
3 view chest-Tech only please, Presenting Complaint and Clini	cal Questions	s you wish to a	
		B6	
Pertinent History:			
		B6	

Condusions:				
		B6		
Radiologists				
Primary: Reviewing:	B6			
Reviewing:	B6			

Reported: 06/27/17

Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-8739 http://vetmed.tufts.edu/

Radiology Request & Report

<u>Patient</u>	Owner	,	p-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Name: B6	Name:	B6	Patient II): B6
Species: Canine	Address	В6	Date of request: 6/21/2017
Golden Male (Neutered) Golden		DO	
Retriever	L		
Birthdate: B6			
Attending Clinician:	В	6	Student:
Date of exam: 6/21/17			
Patient Location: Ward/Cage:	icu		Weight (kg) 36.00
	S	iedation	
Inpatient ■		BAG BAG	
Outpatient Time:		OBAG	
■ Waiting		■ 1/2 dose (DRAG
Emergency			or/Butorphanol
■ chagaicy			
		Anestnes	a to sedate/anesthetize
Examination Desired: Thorax	s view		
Presenting Complaint and Clin Emergency	ical Questic	ns you wish to	answer.
Pertinent History: Acute inspir	atory crisis (suspect larpar v	s oral mass) overnight
Findings:			
		B 6	
L			i

Condusions:

- Caudodorsal gas lucency may represent atypical duodenal gas on the DV, and gastric gas on the left lateral; however the possibility of pulmonary localization cannot be excluded. In the latter case, a

pulmonary abscess or mass with central necrosis could be considered, although no soft tissue component is identified. Thoracic CT or follow-up radiographs may be considered for further evaluation.

- Normal cardiovascular structures.

A cause for acute inspiratory dyspnea is not identified.

Kadiologists		
Primary:	В6	
Reviewing:	В6	

Dates

Reported: 6/21/2017 Finalized: 7/6/2017

Emergency & Critical Care Liaison: (508) 887 - 4745

Foster Hospital for Small Animals 56 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://webmed.tufts.edu/

<u>Patient</u>	,;	Owner	
Name:	B6 Cold Mala	Name: Address	D6
Signalment:	B6 Gold Male (Neutered) Golden Retriever	Address:	DO
	(Marchay Committee Etc.)	į	
Patient ID:	394674		
Emergency Clinician:	B6		
Consulting Clinician:			
ER Supervisor:			
	В	6	
	Discharge	nstructions	
Admit Date: 1/14/2 019			
Check Out Date: 1/14/	2019		
Case Summary			
Diagnosis:			
1. Lethargy: open diagr	iosis		
2 B6			
3. New heart murmur:	open diagnosis		
Case Summary:	······································		
	B6 to Tults University Emergeno B6 had normal vital parameters		
	t spot on the tail base. We discusse		
	start with repeat bloodwork (CBC/dr		
	with antibiotics to treat his B6 inle		
veterinarian if B6 r			and ap maryou prince; on a
1			
Patient Care Instruction	TIST		
	B6	1	
	В) 	
Medications:			
New medications:			
	B6		

Start today

	p				
Recheck Visits: No recheck in the ER is necessary	v unless B6 is not doing well at ho	me.			

Prescription Refill Discloimer:

For the safety and well-being of our patients, your pet must have had an examination by one of our veterinarians within the past year in order to obtain prescription medications.

Ordering Food:

Please check with your primary veterinarian to purchase the recommended diet(s). If you wish to purchase your food from us, please call 7-10 days in advance (508-887-4629) to ensure the food is in stock. Alternatively, veterinary diets can be ordered from online retailers with a prescription/veterinary approval.

Clinical Trials:

Clinical trials are studies in which our veterinary doctors work with you and your pet to investigate a specific disease process or a promising new test or treatment. Please see our we laite: vet.tufts.edu/cvmc/dinical-studies

Caree: B6	Owner B6	Discharge Instructions	

Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://vetmed.tufts.edu/

Discharge Instructions

Parkin.	Owner				
Name: B6	Name:	В6			Patient ID: 394674
Species: Canine	Address		36	·]	
Gold Male (Neutered) Golden Retriever			50	j	
Birthdate B6					
Attending Cardiologist:					
John E. Rush DVM, MS, DACVIM (Cardiology), L	DACVECC			
DG					
DU					
Cardiology Resident:					
В	6				
Cardiology Technician:					
B6					
Veterinary Mutritionist: Dr. Lisa Freeman					
Student: B6					
Admit Date: 2/1/2010 1-06-44 DM					

Admit Date: 2/1/2019 1:06:44 PM Discharge Date: 2/1/2019

Diagnoses: Dilated cardiomyopathy (DOM), Suspect mild concurrent Degenerative Mitral Valve Disease

Case Summary:

Thank you for bringing. 86 to Tufts Cardiology Service for evaluation of his newly found heart murmur. On echocardiogram, we found that he does have Dilated Cardiomylopathy or DCM. This disease is more common in large and giant breed dogs and is characterized by thinning of the walls of the heart, reduced cardiac pump function, and enlargement of the upper chambers of the heart. Many dogs with DCM will also have significant arrhythmias which can be life-threatening and also require medical management. Thankfully, we did not see any arrhythmias on his ECG today. Additionally, we saw a moderate amount of regungitation coming from the mitral valve. This is a common heart disease in dogs, where the heart valve thickens with age, resulting in a leak. As the leak continues, we may see worsening of the heart enlargement in the future. Signs for congestive heart failure (fluid in the lungs) will be difficulty breathing, coughing, increased breathing rate. If you notice that 86 breathing rate is faster than normal at home we will want to have chest xrays taken. We would like to adjust Dexter's diet and we provided some dietary recommendations below.

Diagnostic test results and findings:

- Echocardiogram findings: The walls of the chambers of his heart are thinner than normal and he has reduced contractile function. The left ventricle and left atrium are dilated. The mitral valve has a moderate amount of regurgitation.
- ECG findings: The ECG was unremarkable- no arrhythmias
- O Labwork findings: We will call you when we have the results of his bloodwork. Most of it should come back

tomorrow, but some of it will take a week or so to return.

Monitoring at home:

- We would like you to monitor your dog's breathing rate and effort at home, ideally during sleep or at a time of rest.
 The doses of drugs will be adjusted based on the breathing rate and effort.
- O In general, most dogs with heart failure that is well controlled have a breathing rate at rest of less than 35 breaths per minute. In addition, the breathing effort, noted by the amount of belly wall motion used for each breath, is fairly minimal if heart failure is controlled.
- O There are instructions for monitoring breathing and a form to help keep track of breathing rate and drug closes, on the Tufts HeartSmart web site (http://vet.tufts.edu/heartsmart/at-home-monitoring/).
- We also want you to watch for weakness or collapse, a reduction in appetite, worsening cough, or distention of the belly as these findings indicate that we should do a recheck examination.
- If you have any concerns, please call or have your dog evaluated by a veterinarian. Our emergency clinic is open 24 hours/day.

Recommended Medications:



Diet suggestions:

Dogs with heart failure accumulate more fluid in their body if they eat large amounts of sodium (salt). Sodium can be found in all foods, but some foods are lower in sodium than others. Many pet treats, people foods, and supplements used to give pills often have more sodium than is desirable - a sheet that has suggestions for low sodium treats can be found on the HeartSmart web site (http://vet.tufts.edu/heartsmart/diet/)

Your dog's usual diet may also have more sodium than recommended - we want him/her to continue to eat his/her normal diet for the first 7 to 14 days so we can make sure he is tolerating medications well, but after that time we would recommend slowly introducing one of the lower sodium diets on the HeartSmart list (25% of the new diet and 75% old diet for 2-3 days, then 50.50, etc.). Hopefully you can find a diet on the list that your dog likes to eat. Alternatively, if you are attached to the current diet you can research the amount of sodium in the diet to ensure that the sodium content is similar to those on the list.

- O The FDA is currently investigating an apparent association between diet and a type of heart disease called dilated cardiomyopathy. The exact cause is still unclear, but it appears to be associated with boutique diets and those containing exotic ingredient or aregrain-free. Therefore, we are currently recommending that dogs do not eat these types of diets.
- Werecommend switchin B6 to commercial diet made by a well-established company that is not grain-free and does not contain any exotic ingredients, such as langaroo, duck, lamb, venison, lentils, peas, beans, buffalo, tapioca, barley, and chickpeas.
- O The FDA issued a statement regarding this issue (https://www.fda.gov/AnimalVeterinary/NewsEvents/CVMUpdates/uom613305.htm) and a recent article published by Dr. Lisa Freeman on the Cummings School's Petfoodology blog can further explain these findings (http://wetnutrition.tufts.edu/2018/06/a-broken-heart-risk-of-heart-disease-in-boutique-or-grain-free-diets-and-exotic-ingredients/).
- Our nutritionists have compiled a list of dog foods that are good options for dogs with heart disease.

Dry Food Options:

Royal Canin Early Cardiac (veterinary diet) Purina Pro Plan Adult Weight Management Purina Pro Plan Bright Mind Adult Small Breed Formula

lams Chunks

Canned Food Options:

Hill's Science Diet Adult 1-6 Healthy Cuisine Roasted Chicken, Carrot, and Spinach Stew Royal Canin Mature 8+

If your dog has special nutritional needs or requires a homecooked diet, we recommend you schedule an appointment with our nutritionists (508-887-4696).

Exercise Recommendations: We recommend limited activity. Leash walking only is ideal, and short walks to start. Repetitive or strenuous high energy activities (repetitive ball chasing, running fast off-leash, etc.) are generally not advised.
Recheck Visits:
Thank you for enrolling B6 in our dinical study.
B6 is supposed to have an appointment here at Tufts in about 3 months - We have an appointment for him
scheduled on May 9th at 10AM. We will perform an echo, ECG and bloodwork at this time.
Thank you for entrusting us with B6 re! It was a pleasure to meet you all today and he was a very good boy. Please contact our Cardiology liaison at (508)-337-4696 or email us at cardiovet@tuits.edu for scheduling and non-emergent questions or concerns.
Please visit our HeartSmart website for more information http://wet.tufts.edu/heartsmart/
Prescription Refil Discloimer: For the safety and well-being of our patients, your pet must have had an examination by one of our veterinarians within the past year in order to obtain prescription medications.
Ordering Food: Please check with your primary veterinarian to purchase the recommended diet(s). If you wish to purchase your food from us, please call 7-10 days in advance (508-887-4629) to ensure the food is in stock. Alternatively, veterinary diets can be ordered from online retailers with a prescription/veterinary approval.
Clinical Trials: Clinical trials are studies in which our veterinary doctors work with you and your pet to investigate a specific disease process or a promising new test or treatment. Please see our website: website : website : website : website : website : website : website : website : website : website : website : website : website : website : website : website : website : website : website : website : website : website : website : website : website : websi
Case B6 Owner B6 Discharge Instructions

Cardiology Liaison: 508-887-4696

duplicate

B6

... Patient |D: 394674

B6 Canine

B6 Years Old Male (Neutered) Golden Retriever

Gold

Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://wetmed.tulks.edu/

Discharge Instructions

<u>Palient</u>
Name: B6
Species: Canine
Gold Male (Neutered) Golden Retriever
Birthdate: B6

Duplicate

Name: B6
Address: B6

Patient ID: 394674

Cardiology Liaison: 508-887-4696

B6	
Patient ID: B6 B6 Canine B6 Years Old Male (No	eutered) Golden Retriever

Cardiology Appointment Report

Attending Cardiologist: John E. Rush DVM, MS, DACVIM	(Contolona) DACVECC (CON	LEADY)
B6	(Cardiology), DACVICE (FRE	ment)
Cardiology Resident:		
	B6	
Cardiology Technician:		
B 6		
Student: B6		
Presenting Complaint:		
RDVM yearly revealed 2/6 heart murmu	F	
		tricuspid regurgitation and mild
		. 55
pulmonic insufficiency		
pulmonic insufficiency ER 1/14 for profound lethargy- declined	diagnostics but wanted to s	
ER 1/14 for profound lethargy-declined appointment, diagnosed with	B6	ee cardio sooner than scheduled but owner didn't read
ER 1/14 for profound lethargy-declined	B6	
ER 1/14 for profound lethargy-declined appointment, diagnosed with label right and has been giving 500mg Pt Whole life on grain free diet	B6 O BID instead	but owner didn't read
ER 1/14 for profound lethargy-declined appointment, diagnosed with label right and has been giving 500mg Pt Whole life on grain free diet Put on a lot of weight within 2018 (84lbs	B6 O BID instead s in December, 80lbs today),	but owner didn't read decreased activity (secondary to
ER 1/14 for profound lethargy-declined appointment, diagnosed with label right and has been giving 500mg Pt Whole life on grain free diet	B6 O BID instead s in December, 80lbs today),	but owner didn't read decreased activity (secondary to
ER 1/14 for profound lethargy-declined appointment, diagnosed with label right and has been giving 500mg Pt Whole life on grain free diet Put on a lot of weight within 2018 (84lbs owner injury vs. 86 less excited for f	B6 O BID instead s in December, 80lbs today),	but owner didn't read decreased activity (secondary to
ER 1/14 for profound lethargy-declined appointment, diagnosed with label right and has been giving 500mg Pt Whole life on grain free diet Put on a lot of weight within 2018 (84lbs owner injury vs. 86 less excited for f thyroid level	B6 O BID instead s in December, 80lbs today),	but owner didn't read decreased activity (secondary to
ER 1/14 for profound lethargy-declined appointment, diagnosed with label right and has been giving 500mg Pt Whole life on grain free diet Put on a lot of weight within 2018 (84lbs owner injury vs. B6 less excited for f thyroid level Concurrent Diseases: B6	B6 O BID instead s in December, 80lbs today),	but owner didn't read decreased activity (secondary to
ER 1/14 for profound lethargy- declined appointment, diagnosed with label right and has been giving 500mg Pt Whole life on grain free diet Put on a lot of weight within 2018 (84lbs owner injury vs	B6 O BID instead is in December, 80lbs today), fetching, still goes on 1-2.5m	but owner didn't read decreased activity (secondary to
ER 1/14 for profound lethargy-declined appointment, diagnosed with label right and has been giving 500mg Pt Whole life on grain free diet. Put on a lot of weight within 2018 (84lbs owner injury vs. B6 less excited for f thyroid level. Concurrent Diseases: B6 General Medical History:	B6 O BID instead is in December, 80lbs today), fetching, still goes on 1-2.5m	but owner didn't read decreased activity (secondary to

Earthborne grain free 3/4 cup BID, was 1 cup BII	D before rdvm appt in 12/2018
B6	
<u> </u>	·
Cardiovascular History:	
Prior CHF diagnosis? No	
Prior heart murmur? II/VI diagnosed in Decemb	er 2018
Prior ATE? No	
Prior arrhythmia? No	_
Monitoring respiratory rate and effort at home:	? No
Cough? No	
Shortness of breath or difficulty breathing? No	
Syncope or collapse? No	
Sudden onset lameness? No	
Exercise intolerance? No	
0	
Current Medications Pertinent to CV System:	
B6	
Rh	
<u> </u>	
Cardiac Physical Examination:	
B	
Muscle condition:	
Mormal	■ Moderate cachesia
Mild muscle loss	Marked cachesia
Cardiovascular Physical Exam:	
Murmur Grade:	_
None	□ rv/vi
□ I/VI ☑ II/VI to	■ v/vi ■ vi/vi
<u> </u>	i an an
= 11,41	
Murmur location/description: Left heart apex	
Jugu <u>lar</u> vein:	_
Bottom 1/3 of the neck	1/2 way up the neck
Middle 1/3 of the neck	Top 2/3 of the neck
0-1	
Arterial pulses:	

WeakFairGoodStrong	 □ Bounding □ Pulse deficits □ Pulsus paradoxus □ Other:
Arrhythmia: None Sinus arrhythmia Premature beats	☐ Bradycardia ☐ Tachycardia
Gallop: ☑ Yes ☑ No ☑ Intermittent	Pronounced Other: Faint
Pulmonary assessments: Eupneic Mild dyspnea Marked dyspnea Normal BV sounds	Pulmonary crackles Wheezes Upper airway stridor
Abdominal exam: Normal Hepatomegaly Abdominal distension	Mild ascites Marked ascites
<u>Problems</u> : Murmur and prior dx of DCM Here for diet study	
Diagnostic plan: ✓ Echocardiogram +/- other testing ✓ Chemistry profile ✓ ECG ☐ Renal profile ☐ Blood pressure	☐ Dialysis profile ☐ Thoracic radiographs ☑ NT-proBNP ☑ Troponin I ☑ Other tests:
Echocardiogram Findings: General/2-D findings:	
	36
Mitral inflow: Summated Normal Delayed relaxation	Pseudonormal Restrictive

■ B1 ■ D ■ B2 M-Mode	ECG findings:		
Echocardiogram reveals DCM with significant MR (which could also indicate a component of DMVD). Recommend starting: B8 Recommend changing diet to RC Early Cardiac or similar diet on the list. NT-proBNP, troponin, CBC/chem were submitted. Patient was enrolled in DCM Study. Recheck echo and blood work for study in 3, 6, and 9 months. Final Diagnosis: DCM with a component of DMVD Heart Failure Classification: I a IIIa II b IIIb ACVIM Classification: A C B1 B1 D D ACVIDD Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode M-Mode Normalized IVSdN (0.290-0.520) !	В6		
Echocardiogram reveals DCM with significant MR (which could also indicate a component of DMVD). Recommend starting: B8 Recommend changing diet to RC Early Cardiac or similar diet on the list. NT-proBNP, troponin, CBC/chem were submitted. Patient was enrolled in DCM Study. Recheck echo and blood work for study in 3, 6, and 9 months. Final Diagnosis: DCM with a component of DMVD Heart Failure Classification: I a IIIa II b IIIb ACVIM Classification: A C B1 B1 D D ACVIDD Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode IVSd Component of DMVD M-Mode M-Mode Normalized IVSdN (0.290-0.520) !			
Recommend starting 86 Recommend changing diet to RC Early Cardiac or similar diet on the list. NT-proBNP, troponin, CBC/chem were submitted. Patient was enrolled in DCM Study. Recheck echo and blood work for study in 3, 6, and 9 months. Final Diagnosis: DCM with a component of DMVD Heart Failure Classification Score: ISACHC Classification: I a		. sept 1:1	. (Disco)
diet on the list. NT-pro BNP, troponin, CBC/chem were submitted. Patient was enrolled in DCM Study. Recheck echo and blood work for study in 3, 6, and 9 months. Final Diagnosis: DCM with a component of DMVD Heart Failure Classification Score: ISACHC Classification: I to IIIIa III IIII ACVIM Classification: A C B1 III III ACVIM Classification: A C B1 III III ACVIM Classification: A C B1 III III B2 M-Mode IVSd IVIDD IVPWd IVPWd IVPSS IVIDS IVPWS IVIDS IVPWS EDV(Teich) ESV(Teich) AO Diam IA Di	Echocardiogram reveals DCM with signific	ant MK (which could also indicate a	component of DMVD}.
diet on the list. NT-pro BNP, troponin, CBC/chem were submitted. Patient was enrolled in DCM Study. Recheck echo and blood work for study in 3, 6, and 9 months. Final Diagnosis: DCM with a component of DMVD Heart Failure Classification Score: ISACHC Classification: I to IIIIa III IIII ACVIM Classification: A C B1 III III ACVIM Classification: A C B1 III III ACVIM Classification: A C B1 III III B2 M-Mode IVSd IVIDD IVPWd IVPWd IVPSS IVIDS IVPWS IVIDS IVPWS EDV(Teich) ESV(Teich) AO Diam IA Di	kecommena starting		ne relicente e de la
Recheck echo and blood work for study in 3, 6, and 9 months. Final Diagnosis: DCM with a component of DMVD Heart Failure Classification Score: ISACHC Classification: Isa Isla Isla Isla Isla Isla Isla Isla Isla Isla Isla Isla Isla Isla Isla Isla Isla Isla			
Final Diagnosis: DCM with a component of DMVD Heart Failure Classification Score: ISACHC Classification: Isa Isa Isa Isa Isa Isa Isa Isa Isa Isa			enrolled in DCM Study.
DCM with a component of DMVD Heart Failure Classification Score: ISACHC Classification: Ita IIII IIII IIII ACVIM Classification: A C C BB1 IIII IIII ACVIM Classification: A D C BB1 IIII IIII ACVIM Classification: A O C BB1 IIII ACVIM Classification: A O C BB1 IIII ACVIM Classification: A O C BB1 IIII ACVIM Classification: A O C BB1 IIII ACVIM Classification: A O C BB1 IIII ACVIM Classification: A O C BB1 IIII ACVIM Classification: A O C BB1 IIII ACVIM Classification: A C BB1 IIII ACVIM Classification: A O C BB1 IIII ACVIM Class	RELIECK ELIO and blood work for Study III	3, 0, and 3 mondis.	
DCM with a component of DMVD Heart Failure Classification Score: ISACHC Classification: Ita IIII IIII IIII ACVIM Classification: A C C BB1 IIII IIII ACVIM Classification: A D C BB1 IIII IIII ACVIM Classification: A O C BB1 IIII ACVIM Classification: A O C BB1 IIII ACVIM Classification: A O C BB1 IIII ACVIM Classification: A O C BB1 IIII ACVIM Classification: A O C BB1 IIII ACVIM Classification: A O C BB1 IIII ACVIM Classification: A O C BB1 IIII ACVIM Classification: A C BB1 IIII ACVIM Classification: A O C BB1 IIII ACVIM Class	Final Diagnosis		
Heart Failure Classification: la			
SACHC Classification:	Ball till dompoles of Bill b		
SACHC Classification:	Heart Failure Classification Score:		
Ib	□ la	■ IIIa	
ACVIM Classification: A C B B1 D B2 M-Mode IVSd LVIDd LVPWd IVSs LVIDs LVPWs EDV(Teich) EF(Teich) EF(Teich) #45 SV(Teich) Ao Diam LA Diam LA Diam LA JAAO Max LA TAPSE EPSS M-Mode Normalized IVSdN (0.290 - 0.520) !	☑ lb	■ IIIb	
■ B1 ■ D ■ B2 M-Mode			
■ B1 ■ D ■ B2 M-Mode			
■ B1 ■ D ■ B2 M-Mode IVSd	ACVIM Classification:		
M-Mode IVSd LVIDd LVPWd IVSs LVIDs LVPWs EDV{Teich} EF(Teich) %FS SV(Teich) Ao Diam LA/Ao Max IA TAPSE EPSS M-Mode Normalized IVSdN IVSd Cm Cm Cm Cm Cm Cm Cm Cm Cm C	■ A	□ c	
M-Mode IVSd	■ B1	■ D	
IVSd	☑ B2		
IVSd			
LVIDd		[]	
LVPWd			cm
IVSs			cm
LVIDs			cm
LVPWs			cm
EDV(Teich) ESV(Teich) EF(Teich) %FS SV(Teich) Ao Diam LA Diam LA/Ao Max LA TAPSE EPSS M-Mode Normalized IVSdN ml ml ml ml ml ml ml ml ml ml ml ml ml			cm
ESV(Teich) EF(Teich) % %FS SV(Teich) Ao Diam LA Diam LA Diam LA/Ao Max LA TAPSE EPSS M-Mode Normalized IVSdN ml % % % % % % % % % % % % % % % % % %			
## B6 ## ## ## ## ## ## ## ## ## ## ## ## ##			
%FS SV(Teich) Ao Diam LA Diam LA/Ao Max LA TAPSE EPSS M-Mode Normalized IVSdN B6 MI m cm cm cm cm cm cm cm cm cm			
SV(Teich) Ao Diam LA Diam LA/Ao Max LA TAPSE EPSS M-Mode Normalized IVSdN B6 ml cm cm cm cm cm cm cm cm cm cm cm cm cm			
Ao Diam LA Diam LA/Ao Max LA TAPSE EPSS M-Mode Normalized IVSdN IVSdN Cm Cm Cm Cm Cm Cm Cm Cm Cm C		D6	
LA Diam cm LA/Ao m Max LA cm TAPSE cm EPSS cm M-Mode Normalized (0.290 - 0.520) !		Б	
LA/Ao Max LA cm TAPSE cm EPSS cm M-Mode Normalized (0.290 - 0.520) !			
Max LA cm TAPSE cm EPSS cm M-Mode Normalized (0.290 - 0.520) !			un.
TAPSE om EPSS om M-Mode Normalized (0.290 - 0.520) !			CTT
EPSS cm M-Mode Normalized (0.290 - 0.520) !			
M-Mode Normalized (0.290 - 0.520) !			
IVSdN (0.290 - 0.520) !	El 33		uii
IVSdN (0.290 - 0.520) !	M-Mode Normalized		
			(0,290 - 0.520) !

LVPWdN $\{0.330 - 0.530\}$ IVS₅N (0.430 - 0.710)LVIDSN $\{0.790 - 1.140\}$! **LVPWsN** (0.530 - 0.780)!Ao Diam N $\{0.680 - 0.890\}$ LA Diam N $\{0.640 - 0.900\}$! 2D SA LA cm: Ao Diam am SA LA / Ao Diam IVSd an LVIDd an LVPWd **cm** EDV(Teich) ml **IVSs** am **LVIDs** an LVPWs am ESV(Teich) ml % EF(Teich) %FS % SV(Teich) ml LV Major cm. **B6** LV Minor am Sphericity Index **LVLd LAX** cm. LVAd LAX an **LVEDV A-L LAX** ml **LVEDV MOD LAX** ml **LVLS LAX cm LVAs LAX** om **LVESV A-L LAX** ml **LVESV MOD LAX** ml **BPM** HR **EF A-L IAX** % **LVEF MOD LAX** % SV A-L LAX ml SV MOD LAX ml CO A-L LAX **Vmin** CO MOD LAX **Vmin** R-R ms HR BPM CO A-L LAX **//min** CO MOD LAX **Vmin** Doppler MR Vmax m/s MR maxPG mmHg MV E Vel m/s

MV DecT MV Dec Slope MV A Vel		ms m/s m/s
MV E/A Ratio E'		
		m/s
E/E'		
Α'	RK	m/s
5	B6	m/s
AV Vmax	_	m/s
AV maxPG		mmHg
PV Vmax		m/s
PV maxPG		mmHg
TR Vmax		m/s
TR maxPG		mmHg



Thank you for your referral to our Emergency Service.

Foster Hospital for Small Animals 95 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-8739 http://wetmed.tufts.edu/ Referring Vet Direct Line 508-887-4988

Notice of Patient Admit

Date: 6/20/2017 10:55:12 PM Case Referring Doctor: B6 Client Name: B6 Patient Name: B6	■o: 394674	
Dear B6 , Your patient presented to our Emergency service. Please make note of the folio communication with our team.	owing information to facilitate	
The attending doctor is: B6 The reason for admission to the FHSA is: resp distress, larpar, possible If you have any questions regarding this particular case, please call 508-887-49 Information is updated daily, by noon.		



Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-8739 http://wetmed.tufts.edu/

В6	Male (Neuten	ed)
Canine	Golden Retriever	Golden
394674		

6/25/2017

Dear B6
Thank you for referring $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
If you have any questions, or concerns, please contact us at 508-887-4988.
Thank you,
B6 (Resident, Emergency & Critical Care)



Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-8739 http://wetmed.tufts.edu/

B6 Male (Neutered)
Canine Golden Retriever Golden
394674

6/28/2017
Dear B6
Thank you for referring $B6$ with their pet $B6$ He presented with respiratory distress and required intubation and a brief period of ventilation. A mass was noted $B6$ which was further evaluated with CT, cytology, and biopsies. The findings were consistent with inflammation and possible infection, but no neoplastic cells were seen. The owners would not pursue chemotherapy or radiation regardless, so we are treating conservatively with antibiotics and antiinflammatories. The surgical team did not feel that the area of swelling was something that they could address surgically. $B6$ did well with supportive care in the hospital. He left the hospital on Monday and has been reportedly breathing very well at home. If his trouble breathing recurs the owner may elect to repeat a CT or biopsies to see if we get a different result, but hopefully he will continue to do well.
If you have any questions, or concerns, please contact us at 508-887-4988.
Thank you,
B6



Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://webmed.tufts.edu/

B6
Male (Neutered)
Canine Golden Retriever Gold
394674

Dear B	6	

B6 was presented to the Tufts Emergency Service for evaluation of lethargy that started yesterday. Examination was normal aside from a low grade heart murmur (no arrhythmia, no concern for CHF) and B6 base. The client wished for a cardiology consult on emergency today, which could not be accomodated. Recheck bloodwork was offered, given the change in clinical status, which the client declined. We elected to treat his hot spot with B6 and he was discharged home to monitor and await his scheduled cardio consult.

If you have any questions, or concerns, please contact us at 508-887-4988.

Thank you,

1/14/2019

B6 (Emergency and Critical Care Resident)



Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://wetmed.tufts.edu/

В6	Male (Neutered)
	lden Retriever Gold
394674	

2/12/2019

Dear B6			
Thank you for referring	B6 📶	h their pet	B6

If you have any questions, or concerns, please contact us at 508-887-4988.

Thank you,

John Rush DVM, DACVIM (Cardiology), DACVECC

Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group From: (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo> To: Palmer, Lee Anne CC: Rotstein, David; Carev, Lauren 3/27/2018 7:39:49 PM Sent: EON-350158 Subject: RE: Zignature Kangaroo Formula: Yes-let's take a look! I think we should check I'm curious if those aminoacid levels are normal if there is some underlying renal disease causing whole body taurine depletion. https://academic.oup.com/alcalc/article/36/1/29/138000 Jennifer Jones, DVM Veterinary Medical Officer Tel: 240-402-5421 DA U.S. FOOD & DRUG From: Palmer, Lee Anne Sent: Tuesday, March 27, 2018 3:25 PM To: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov> Cc: Rotstein, David <David.Rotstein@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov> Subject: FW: Zignature Kangaroo Formula: **B6** - EON-350158

In case of interest – taurine level low?

From: PFR Event [mailto:pfreventcreation@fda.hhs.gov]

Sent: Tuesday, March 27, 2018 3:20 PM

To: Cleary, Michael * < Michael. Cleary@fda.hhs.gov>; HQ Pet Food Report Notification

<<u>HQPetFoodReportNotification@fda.hhs.gov</u>>; **B6**

Subject: Zignature Kangaroo Formula: **B6** - EON-350158

A PFR Report has been received and PFR Event [EON-350158] has been created in the EON System.

A "PDF" report by name "2044632-report.pdf" is attached to this email notification for your reference. Please note that all documents received in the report are compressed into a zip file by name "2044632-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-350158

ICSR #: 2044632

EON Title: PFR Event created for Zignature Kangaroo Formula; 2044632

AE Date	10/31/2017	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Better/Improved/Recovering
Breed	Retriever - Labrador		

Age	13 Years	
District Involved	PFR B6 DO	

P	ro	di	net	in	ıfoı	m	atio	on
	ιv	u	uv			1111	aur	

Individual Case Safety Report Number: 2044632

Product Group: Pet Food

Product Name: Zignature Kangaroo Formula

Description: At the time of diagnosis (10/31/17), **B6** was a 13 year old female spayed Labrador retriever who had been maintained on a Zignature Kangaroo formula. She presented with a history of a progressive cough which, prior to presentation, became productive and she coughed up a small volume of pink foam (possible pulmonary edema). On examination she had a 2/6 left apical systolic heart murmur and on echo diagnosed with advanced dilated cardiomyopathy with severe left ventricular dilation, moderate to severe left ventricular systolic dysfunction, and moderate to severe left atrial dilation. Thoracic radiographs were suspicious for early congestive heart failure. A whole blood taurine level was submitted and was low at **B6** She was treatment with **B6**

В0	and her diet was changed to Royal Canin E
Cardiac. At her recheck in 2/26/18, B6 he	eart had improved significantly with now mild dilated
cardiomyopathy with normalized left atrial d	imensions, mild left ventricular dilation and low normal left
ventricular systolic function. The B6	was able to be discontinued at this time.

Submission Type: Initial

Report Type: Adverse Event (a symptom, reaction or disease associated with the product) **Outcome of reaction/event at the time of last observation:** Better/Improved/Recovering

Number of Animals Treated With Product: 1 Number of Animals Reacted With Product: 1

Product Name	Lot Number or ID	Best By Date
Zignature Kangaroo Formula		

<u>Sender</u>	inform	ation

B6

USA

Owner information

B6

To view this PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-350158

USA

To view the PFR Event Report, please click the link below: https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none&e=0&issueType=12&issueId=366527

This email and attached document are being provided to you in your capacity as a Commissioned Official with the U.S. Department of Health and Human Services as authorized by law. You are being provided with this information pursuant to your signed Acceptance of Commission.

This email message is intended for the exclusive use of the recipient(s) named above. It may contain information that is protected, privileged, or confidential. Any dissemination, distribution, or copying is strictly prohibited.

The information is provided as part of the Federal-State Integration initiative. As a Commissioned Official and state government official, you are reminded of your obligation to protect non-public information, including trade secret and confidential commercial information that you receive from the U.S. Food and Drug Administration from further disclosure. The information in the report is intended for situational awareness and should not be shared or acted upon independently. Any and all actions regarding this information should be coordinated through your local district FDA office.

Failure to adhere to the above provisions could result in removal from the approved distribution list. If you think you received this email in error, please send an email to <u>FDAReportableFoods@fda.hhs.gov</u> immediately.

Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo>

To: 'cvca B6 @cvcavets.com'

Sent: 3/28/2018 6:40:32 PM

Subject: FDA Case investigation for B6 (EON-350158)

Attachments: 02-Vet-LIRN-NetworkProceduresVets-12.22.2015.pdf; 03-Vet-LIRN-Network

ProceduresOwners-12.22.2015.pdf

Good afternoon **B6**

From:

Thank you for submitting your consumer complaint to FDA. I'm sorry to hear about **B6** illness.

As part of our investigation, we'd like to request:

Full Medical Records

- Please email (preferred) or fax (301-210-4685) a copy of entire medical history (not just this event).
- o Do you have records from her referring veterinarian?

• Potentially Test Remaining OPEN product

- O Do you have any remaining product left?
- o Is there a lot number or best by date for the leftover food?
- Hold any remaining UNOPENED product for potential collection.

I attached a copy of our Vet-LIRN network procedures. The procedures describe how Vet-LIRN operates and how veterinarians help with our case investigations.

Please respond to this email so that we can initiate our investigation.

Thank you kindly,

Dr. Jones

Jennifer L. A. Jones, DVM

Veterinary Medical Officer U.S. Food & Drug Administration Center for Veterinary Medicine Office of Research

Veterinary Laboratory Investigation and Response Network (Vet-LIRN)

8401 Muirkirk Road, G704 Laurel, Maryland 20708 new tel: 240-402-5421 fax: 301-210-4685

e-mail: jennifer.jones@fda.hhs.gov

Web: http://www.fda.gov/AnimalVeterinary/ScienceResearch/ucm247334.htm





Network Procedures for Veterinarians

1. Introduction

The purpose of this Network Procedure is to facilitate basic interactions between the Vet-LIRN Program Office (VPO) and veterinarians participating in Vet-LIRN case investigations. General procedures such as information flow, sample handling procedures, submission of reports and billing for services are discussed. The focus of most Vet-LIRN case investigations is on diagnostic samples, although occasionally animal food samples will also be submitted. Animal food testing conducted after receiving a consumer complaint is typically handled by FDA's Office of Regulatory Affairs (ORA) Laboratories or accredited laboratories.

- 1.1 In the case of Vet-LIRN investigations, the government is the client.
 - 1.1.1 The government is requesting assistance in its investigation, and is requesting tests or services to be performed by your clinic during this investigation.
 - 1.1.2 The government will pay for these services.
 - 1.1.3 The owner is helping with the government's investigation of a regulated product.
 - 1.1.4 The goal of the investigation is to determine if the product is at fault and why.
 - 1.1.5 The government's investigation may not provide a definitive diagnosis for the patient's illness.

2. Case Background - Consumer complaint

- 2.1 Vet-LIRN obtains information about the cases we investigate from 3 main sources,
 - 2.1.1 Consumer complaints (cc) obtained by FDA Consumer Complaint Coordinators by phone
 - 2.1.2 Electronic consumer complaint submissions through FDA's Food Safety Reporting Portal, and
 - 2.1.3 Vet-LIRN partner laboratories.

NOTE: Generally, the information received in a consumer complaint **is not** kept confidential. In most cases, only protected personal information (such as names and addresses) is withheld in an effort to prevent the complaint from being traced back to the individual who submitted it.



3. Communications

- 3.1 VPO will discuss the case with the referring veterinarian and or the owner.
- 3.2 VPO evaluates the case history and determines a need for follow up testing to determine if the food (or drug) is the cause of the illness or death.
- 3.3 VPO contacts the appropriate member laboratory(-ies) (chosen based on location and capabilities) and provides initial information
 - 3.3.1 In some cases only partial history is available
 - 3.3.2 Follow up information will be sent as it becomes available.
- 3.4 VPO proposes the tests to be conducted and prepares billing documents.
- 3.5 VPO makes arrangements with the veterinarian to obtain and ship samples.
 - 3.5.1 VPO receives test results and forwards the results to the veterinarian who will then communicate the results to the owner.

4. Case history

- 4.1 A complete medical history is essential,
 - 4.1.1 age, sex, breed, animal's ID/name,
 - 4.1.2 other animals affected,
 - 4.1.3 duration of problem, lesion distribution (diagrams or photos are welcome),
 - 4.1.4 treatment of problem (especially dose and duration of therapy) and response to treatment.
 - 4.1.5 concomitant drugs or dietary supplements administered (not used for treatment of the reaction, but administered for other reasons at the same time or within a short time of the problem occurrence).
- 4.2 Vet-LIRN Case Numbers:
 - 4.2.1 Include Vet-LIRN case number in all correspondence.
 - 4.2.2 E-mail: include the Vet-LIRN case number as the first part of the subject line. This will help archiving data for each case.
- 4.3 Electronic submission of medical records and laboratory results is preferred.
- 4.4 Histories can also be submitted by FAX to Vet-LIRN (301-210-4685).
- 4.5 Information about follow-up visits related to the investigation and additional laboratory reports should be provided as soon as possible. Phone calls are very useful for



discussing cases in depth, but should be followed up with the medical records and lab reports.

4.5.1 Due to time difference around the country, email communication is often the best way to assure information is transferred in a timely manner.

5. Services Requested by VPO

- 5.1 Services typically tests will fall into 3 categories:
 - 5.1.1 Office Examination
 - 5.1.2 Clinical laboratory samples
 - 5.1.3 Pathology

5.2 Office Examination:

- 5.2.1 To evaluate the current status of the patient.
- 5.2.2 To obtain samples from the patient for further analysis (blood, urine, feces).

5.3 Clinical Laboratory Samples:

- 5.3.1 VPO may ask for repeat analysis of new samples to be run either by the veterinary hospital, or by its usual testing laboratory.
- 5.3.2 Typical tests include clinical hematology, microbial cultures, urinalysis, and fecal examination.
- 5.3.3 Additional testing may be requested and the samples sent to a Vet-LIRN network laboratory.

5.4 Pathology:

- 5.4.1 Either submit the entire carcass or conduct a routine necropsy examination. Record your findings in detail and submit. Histopathology and microbiological cultures as appropriate.
 - 5.4.1.1 Describe all lesions location, color, size, texture.
 - 5.4.1.2 Culture lesions or intestinal contents as deemed appropriate based on the history.
 - 5.4.1.3 Save tissues for histopathology- be sure to use 10:1 formalin to tissue mass.
- 5.4.2 Histopathology tissues (preserve in 10% neutral buffered formalin 10:1 ratio fixative to tissue):



- 5.4.2.1 thyroid, thymus, lung, heart, liver, spleen, adrenal, kidney, pancreas, stomach, duodenum, jejunum, ileum, colon, urinary bladder, skeletal muscle, brain.
- 5.4.2.2 Request a duplicate set of H&E for submission to VPO for archiving.

5.5 Toxicology:

- 5.5.1 Freeze and hold tissues if there is any indication that a toxic substance may be involved:
 - 5.5.1.1 brain (for organophosphates and carbamates),
 - 5.5.1.2 eyes, liver, kidney, brain, stomach content, fat,
 - 5.5.1.3 if available, serum, EDTA blood, urine.
- 5.5.2 Following a review of histopathology, VPO may select tissues to be analyzed and request that tissues be sent to a Vet-LIRN laboratory.
- 5.5.3 When the case is closed by VPO, samples can be disposed of. When in doubt, please ask.
 - 5.5.3.1 The animal's remains can be disposed of following the laboratories' customary procedures.

6. Sample submissions

- 6.1 Normally, VPO prefers that the veterinarian, not the pet owner submit samples.
- 6.2 Arrangements for transport should be made with the VPO (see additional shipping instructions).
- 6.3 A Vet-LIRN Sample Submission Form, given by VPO to the veterinarian, should be provided to the veterinarian and should accompany all samples being sent to our Vet-LIRN laboratory, listing the recommended tests.
- 6.4 A Shipping Inventory Sheet, given by VPO to the veterinarian, should also be provided by VPO and should be submitted with all samples. This form will be filled out and faxed to the VPO (301-210-4685) by the receiving Vet-LIRN laboratory.
- 6.5 Vet-LIRN case numbers should be provided by the VPO and should be included on all samples and reports.
 - 6.5.1 Rarely, an owner will deliver a specimen or an animal for necropsy directly to the participating laboratory. Vet-LIRN should notify the lab to expect the owner if this happens and will provide appropriate forms.



7. Sample types that Vet-LIRN may request from the Veterinarian

- 7.1 Entire bodies (fresh or frozen)
- 7.2 Organs from necropsy (fresh, frozen or formalin fixed)
- 7.3 Clinical samples (serum, blood, urine, feces, biopsy samples, cultures)
- 7.4 Food samples (open bag products from home)

8. Reporting

- 8.1 All reports from Vet-LIRN testing labs are submitted to VPO.
- 8.2 VPO will forward reports to the veterinarian, who should discuss the results with the owner.
- 8.3 If appropriate, VPO will forward reports to the owner.

9. Communications with Owners

- 9.1 General:
 - 9.1.1 VPO usually will have contacted the owner to request permission and assistance in the investigation.
 - 9.1.2 Vet-LIRN's investigation is focused on determining if a regulated product is the cause of the animal's illness. The testing requested by Vet-LIRN may not provide a definitive diagnosis
 - 9.1.3 VPO will provide testing results to the veterinarian for communication to the owner. This ensures that:
 - 9.1.3.1 Owners can be counseled on the interpretation of the test results,
 - 9.1.3.2 Appropriate medical follow-up care based on test results can be recommended by the owner's veterinarian.



10. Billing

- 10.1 Vet-LIRN VPO can only pay for services which were requested and approved by VPO. Vet-LIRN cannot pay for treatment, or for diagnostic testing outside of the scope of the investigation.
- 10.2 Procurement and Billing Process: The following process needs to be followed in order to adhere to government regulations.
 - 10.2.1 The veterinarian must provide estimates so a Purchase Request can be prepared. Estimates should include items such as office visit(s), in-house diagnostic test costs, biopsy or pathology costs and additional charges such as potential shipping charges.
 - 10.2.2 A billing contact must be provided: include name, address, telephone + fax numbers, and email.
 - 10.2.3 Approved Purchase Request is required prior to beginning service.
 - 10.2.4 Additional services may only be initiated after authorized by Vet-LIRN, but must first be approved by VPO with an additional Purchase Request.
 - 10.2.5 Hospitals must provide an invoice to Vet-LIRN upon the completion of work before they can be paid. VPO is tax exempt. Taxes should be removed from all charges. The invoice must include the Vet-LIRN case number.



Network Procedures for Owners

The purpose of this Network Procedure is to help you, the owner, understand how the Veterinary Laboratory Investigation and Response Network (Vet-LIRN) Program Office conducts case investigations (follow up to consumer complaints).

The following items are explained below:

- General Introduction
- Billing
- Step by Step Process
- Types of Services and Tests

1. General Introduction:

1.1. What is the goal of the case investigation?

The goal of the case investigation is to determine if the product is causing your pet's illness. Our case investigation MAY NOT provide a definitive diagnosis for your pet's illness, although we may rule out several other potential reasons for your pet's illness.

1.2. What is the focus of a case investigation?

Most case investigations focus on diagnostic samples (such as blood, urine or tissue from the pet), although we occasionally request and test pet food samples.

1.3. What is my veterinarian's role during the case investigation?

Your veterinarian helps our investigation into FDA- regulated products by providing information about your pet's medical history and by obtaining any diagnostic samples like blood, urine or tissue.

1.4. What will Vet-LIRN ask of me during a case investigation?

We may ask that your veterinarian perform certain tests or services or provide diagnostic samples to FDA or a Vet-LIRN cooperating laboratory.



1.5. Will Vet-LIRN pay for tests or services requested?

Yes, we will pay veterinarians or laboratories *for tests or services requested by Vet-LIRN* and approved through our government purchasing system. We cannot, however, reimburse owners for tests already performed or not specifically requested by Vet-LIRN. We recommend that you discuss with your veterinarian which tests and services will be billed to you and which will be covered by Vet-LIRN. For instance, Vet-LIRN may request that your veterinarian perform a urinalysis on your pet while he or she is hospitalized. Vet-LIRN will pay for the collection and testing of the sample, but would not cover the cost of your pet's stay in the hospital.

1.6. Is the information received in the consumer complaint confidential?

Generally, the information received in the consumer complaint is not kept confidential. In most cases, only protected personal information (such as names and addresses) is withheld in an effort to prevent the complaint from being traced back to the individual who submitted it.

2. Billing:

2.1. Will Vet-LIRN pay for bills related to the case investigation?

Vet-LIRN will cover the cost of services and testing that we specifically request. You should understand that Vet-LIRN *CANNOT* reimburse owners for any veterinary bills. Services *MUST* be pre-authorized and paid directly to the veterinarian.

2.2. Will Vet-LIRN pay for testing that was not requested by Vet-LIRN?

No, we will only pay for testing that we request and authorize.

2.3. Will Vet-LIRN pay for treatments or private cremation?

No, we cannot pay for treatment or cremation.



2.4. If I allow my veterinarian to submit my pet's body for testing, will I be able to have back his or her remains?

Each Vet-LIRN member laboratory has its own procedures for handling remains. Some Vet-LIRN member laboratories offer private cremation services for a fee payable directly to the laboratory. We advise you to discuss directly with the member laboratory the possibilities and costs for obtaining your pet's remains after examination are complete.

3. Step by Step Process:

Vet-LIRN will do the following during a case investigation:

- 3.1. Assign a case number which MUST be included in all correspondences
- 3.2. Discuss the case with you and your veterinarian
- 3.3. Request medical records from your veterinarian
- 3.4. Coordinate with your veterinarian and you to obtain and submit samples for testing
- 3.5. Provide results to your veterinarian who will discuss the results with you.

Vet-LIRN requests that:

- 3.6. Any follow-up veterinary visits related to the investigation are reported to Vet-LIRN
- 3.7. Additional laboratory reports are reported to Vet-LIRN by your veterinarian.

4. Types of Services and Tests:

4.1. What may a veterinary examination include once the case investigation is started?

A veterinary examination may include:

- an office visit and physical examination to assess your animals current health
- collection of clinical samples from your animal (blood, urine, feces).

4.2. Will your animal be tested more than once?



It is possible that Vet-LIRN may request additional tests or examinations depending on results from initial testing.

4.3. Will Vet-LIRN need to conduct a necropsy in the event of an animal death?

Yes, if you are willing, we may request that your veterinarian or another Vet-LIRN cooperating laboratory to conduct a necropsy to collect samples for testing. The samples collected may be tested right away or may be held for future testing or archiving. If the veterinarian completes the necropsy then the remains will be handled according the veterinarians normal procedures. If a Vet-LIRN cooperative laboratory completes the necropsy the remains are usually disposed of by that laboratory. Vet-LIRN cannot pay for private cremation. You are welcome to discuss normal procedures with the laboratory.

4.4. Will Vet-LIRN ask for a food sample?

Our main focus is on testing diagnostic tissue or fluid samples from the animal, but we may need to test the food. Please hold all food samples once the consumer complaint is submitted. If needed, we will make arrangements to collect the food.

4.5. What are some general tests that Vet-LIRN may request?

General tests that we may request include, but are not limited to:

- Hematology
- Microbial cultures
- Urinalysis
- Fecal examination
- Necropsy/Histology/Toxicology

4.6. Will I get results from Vet-LIRN requested tests?

Results of testing on your animal's diagnostic tissue or fluid samples will be forwarded to your veterinarian who will be asked to share the results with you.

From: To:	CVCA - Cardiac Care for Pets Jones, Jennifer L	B6
Sent: Subject:	3/28/2018 10:08:41 PM Re: FDA Case investigation for B6	(EON-350158)
Dear Dr. Jones,		
Thank you for followincluding the primare Unfortunately, the d this in mind for future of the control of the co	y veterinarian history that we have and iagnosis was made in October and the cre patients with dilated cardiomyopathy sample and record the lot number for for	will be sending you our complete records for B6 I the history from her previous emergency room visclient has disposed of the diet. We will certainly key which could potentially be diet-related and have future testing/tracking. Thank you again for looking
Sincerely, B6 VMD, D	ACVIM - Cardiology	
On Wed, Mar 28, 20	118 at 2:40 PM, Jones, Jennifer L < <u>Jenn</u>	nifer.Jones@fda.hhs.gov> wrote:
Good afternoon E	36	
Thank you for subm	itting your consumer complaint to FDA	A. I'm sorry to hear about B6 illness.
As part of our invest	tigation, we'd like to request:	
event). O Do you Potentially To Do you Is there		tover food?
	our Vet-LIRN network procedures. The elp with our case investigations.	e procedures describe how Vet-LIRN operates and
Please respond to t	his email so that we can initiate our in	nvestigation.
Thank you kindly,		
Dr. Jones		

Jennifer L. A. Jones, DVM

Veterinary Medical Officer U.S. Food & Drug Administration Center for Veterinary Medicine Office of Research Veterinary Laboratory Investigation and Response Network (Vet-LIRN) 8401 Muirkirk Road, G704

Laurel, Maryland 20708 new tel: 240-402-5421

fax: 301-210-4685

e-mail: jennifer.jones@fda.hhs.gov

Web: http://www.fda.gov/AnimalVeterinary/ScienceResearch/ucm247334.htm





CVCA - Cardiac Care for Pets

B6

Phone: Fax: B6

Email: B6 cvcavets.com Visit our website at: www.cvcavets.com

"Like" us on Facebook at: www.facebook.com/CVCAVETS "Follow" us on Instagram at: www.instagram.com/CVCAVETS

We want to hear from you! Access our online survey by clicking here.

If there is anything that we can do to improve our service for you, please do not hesitate to contact us directly. We would greatly appreciate your feedback and invite you to fill out a survey based on your experience with CVCA.

Share your photos with us!

If you have a photo that you would like to share, we would love to post it on our Facebook page. Like us on Facebook and post to our wall or you can email the image with a fun fact to evcainfo@evcavets.com and we will forward it to our Facebook administrator.

Please note -- Images are usually posted within 1 month of submission.

From:	CVCA - Cardiac Care for Pets	B6	
To:	Jones, Jennifer L		
Sent:	3/28/2018 10:27:10 PM	,	
Subject: Attachments:	Re: FDA Case investigation for B6 BW.pdf; B6 BW1.pdf; B6 ech B6 ech data.pdf; B6 ech report B6 labs3.pdf; B6 labs38.pdf; B6	io adata.pdf; <mark>B6</mark> hx.pdf; 1.pdf <mark>; B6</mark> er.pdf; <mark>B6</mark> fe	B6 consult.pdf; B6 echo 2.pdf; ecal.pdf; B6 hx2.pdf; B6 hx44.pdf;
Attached is entire medi Thank-	ical records for B6 Please	let us know if you nee	d anything else-
On Wed, Mar 28, 2018 wrote:	at 6:08 PM, CVCA - Cardiac Card	e for Pets	B6
Dear Dr. Jones,			
including the primary v Unfortunately, the diag this in mind for future	ng up on our patient, B6 Weterinarian history that we have an enosis was made in October and the patients with dilated cardiomyopat mple and record the lot number for patients.	nd the history from her e client has disposed of thy which could potent	previous emergency room visit. f the diet. We will certainly keep ially be diet-related and have
B6 VMD, DAC	CVIM - Cardiology		
On Wed, Mar 28, 2018	at 2:40 PM, Jones, Jennifer L < <u>Jen</u>	nnifer.Jones@fda.hhs.g	gov> wrote:
Good afternoon B6			
Thank you for submitti	ing your consumer complaint to FI	DA. I'm sorry to hear a	bout B6 illness.
As part of our investiga	ation, we'd like to request:		
• Full Medical Re	<u>ecords</u>		
 Please ema 	ail (preferred) or fax <u>(301-210-468</u>	(<u>5</u>) a copy of B6 en	tire medical history (not just this
event).			
_	ve records from her referring veter	rinarian?	
•	Remaining OPEN product		
•	ve any remaining product left?	0 0 10	
	ot number or best by date for the le		
 Hold any remai 	ning UNOPENED product for po	otential collection.	

I attached a copy of our Vet-LIRN network procedures. The procedures describe how Vet-LIRN operates and how veterinarians help with our case investigations.

Please respond to this email so that we can initiate our investigation.

Thank you kindly,

Dr. Jones

Jennifer L. A. Jones, DVM

Veterinary Medical Officer U.S. Food & Drug Administration Center for Veterinary Medicine Office of Research Veterinary Laboratory Investigation and Response Network (Vet-LIRN) 8401 Muirkirk Road, G704 Laurel, Maryland 20708 new tel: 240-402-5421

fax: 301-210-4685

e-mail: jennifer.jones@fda.hhs.gov

Web: http://www.fda.gov/AnimalVeterinary/ScienceResearch/ucm247334.htm





CVCA - Cardiac Care for Pets

	В	6
Phone:	В	6
Fax:	В6	
Email:	В6	@cvcavets.com

Visit our website at: www.cvcavets.com

"Like" us on Facebook at: www.facebook.com/CVCAVETS

"Follow" us on Instagram at: www.instagram.com/CVCAVETS

We want to hear from you! Access our online survey by clicking here.

If there is anything that we can do to improve our service for you, please do not hesitate to contact us directly. We would greatly appreciate your feedback and invite you to fill out a survey based on your experience with CVCA.

Share your photos with us!

If you have a photo that you would like to share, we would love to post it on our Facebook page. Like us on Facebook and post to our wall or you can email the image with a fun fact to evcainfo@evcavets.com and we will forward it to our Facebook administrator. Please note -- Images are usually posted within 1 month of submission.

CVCA - Cardiac Care for Pets
B6
Phone B6
Fax: B6
Email: B6 @cvcavets.com
Visit our website at: www.cvcavets.com
"Like" us on Facebook at: www.facebook.com/CVCAVETS
"Follow" us on Instagram at: www.instagram.com/C\/CA\/FT

We want to hear from you! Access our online survey by clicking here.

If there is anything that we can do to improve our service for you, please do not hesitate to contact us directly. We would greatly appreciate your feedback and invite you to fill out a survey based on your experience with CVCA.

Share your photos with us!

If you have a photo that you would like to share, we would love to post it on our Facebook page. Like us on <u>Facebook</u> and post to our wall or you can email the image with a fun fact to <u>cvcainfo@cvcavets.com</u> and we will forward it to our Facebook administrator. *Please note -- Images are usually posted within 1 month of submission*.

Client:	В6	(8546)
Patient N	ame: [B6
Species:		
Breed: La	abrado	r Retriever

Gender: Female/Spayed Weight: 67.60 lbs

Age: 11 Years	
Doctor:	В6



Results	Reference Interval	LOW	NORMAL	HIGH	
ember 14, :	2017 4:20 PM)	- "			10/27/17
В6	70 - 143 LOW 0.5 - 1.8 7 - 27 2.5 - 6.8 7.9 - 12.0 5.2 - 8.2 2.2 - 3.9 2.5 - 4.5 HIGH 10 - 125 23 - 212 HIGH 0 - 11 HIGH 0.0 - 0.9 110 - 320 500 - 1500 200 - 1800 144 - 160 3.5 - 5.8		В	6	10:05. 814
	ember 14,	70 - 143 LOW 0.5 - 1.8 7 - 27 2.5 - 6.8 7.9 - 12.0 5.2 - 8.2 2.2 - 3.9 2.5 - 4.5 HIGH 10 - 125 23 - 212 HIGH 0 - 11 HIGH 0.0 - 0.9 110 - 320 500 - 1500 200 - 1800 144 - 160 3.5 - 5.8	70 - 143 LOW 0.5 - 1.8 7 - 27 2.5 - 6.8 7.9 - 12.0 5.2 - 8.2 2.2 - 3.9 2.5 - 4.5 HIGH 10 - 125 23 - 212 HIGH 0 - 11 HIGH 0.0 - 0.9 110 - 320 500 - 1500 200 - 1800 144 - 160 3.5 - 5.8	Parmber 14, 2017 4:20 PM) 70 - 143	B6 10 - 125 23 - 212 10 - 14 0.5 - 1.8 10 - 125 23 - 212 110 - 14 0.0 - 0.9 110 - 320 500 - 1500 200 - 1800 144 - 160 3.5 - 5.8

Printed: November 14, 2017 4:20 PM

Client:	B6	(8546)
Patient	Name: Bo	6
	s: Canine	
Breed:	Labrador F	Retriever

Gender: Female/Spayed Weight: 67.60 lbs Age: 11 Years

B6

Doctor:

	B6	
В6		
	B6	

Test	Results	Reference Interval	LOW	NORMAL	HIGH	
Catalyst Dx (I	November 14,	2017 4:20 PM)				10/27/17
GLU CREA BUN BUN/CREA PHOS CA TP ALB GLOB ALT ALKP GGT TBIL CHOL AMYL LIPA Na K Na/K CI Osm Calc	B6	70 - 143 LOW 0,5 - 1.8 7 - 27 2.5 - 6.8 7.9 - 12.0 5.2 - 8.2 2.2 - 3.9 2.5 - 4.5 HIGH 10 - 125 23 - 212 HIGH 0 - 11 HIGH 0.0 - 0.9 110 - 320 500 - 1500 200 - 1800 144 - 160 3.5 - 5.8		В	6	

Printed: November 14, 2017 4:20 PM

Patient Demographics

B6 Study Date: 11/01/2017

Patient ID: 121217B Accession #: Alt ID:

DOB: Age: Gender: Ht: Wt: 67lb 4oz BSA:

Institution: CVCA B6

Referring Physician:

Physician of Record: Performed By:

Comments:

Adult Echo: Measurements and Calculations

2D

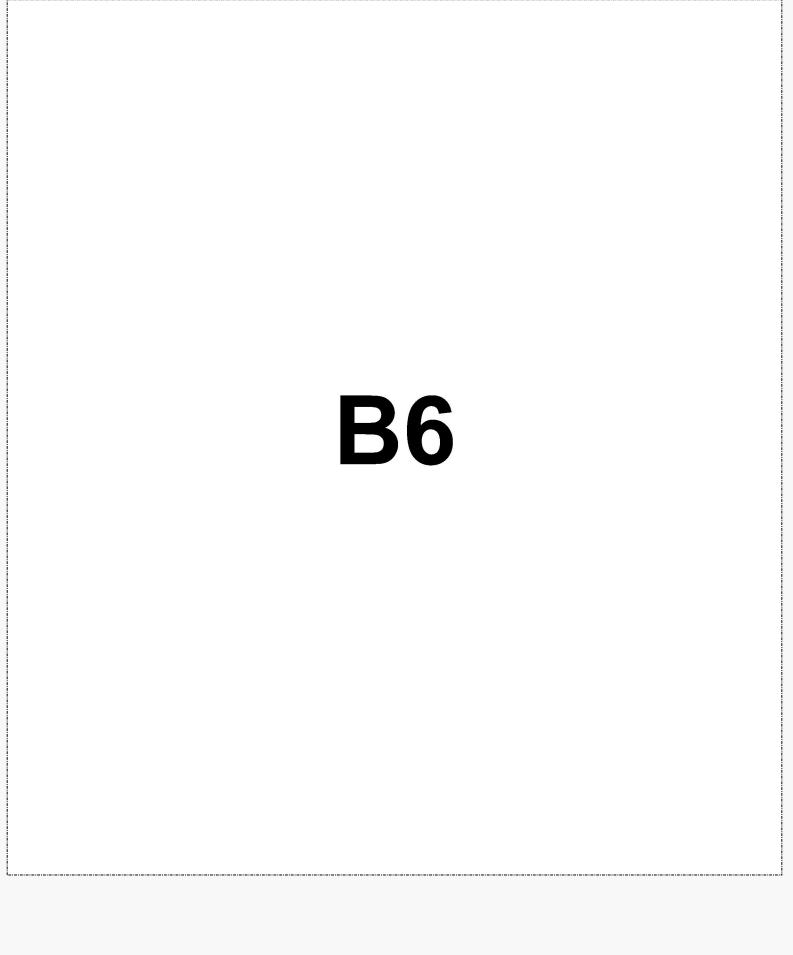
LVIDd (2D)		LVAd (A4C)	IVSd (2D)
LVPWd (2D)		LVAs (A4C)	RVIDd/LVIDd
EDV (2D-		EDV (A4C)	RVIDd (2D) B6
Teich)		B6	
EDV (2D- Cubed)		ESV (A4C)	LA Area
A4Cd		LV Mass	LA Dimon (2D)
		(Cubed)	LA Dimen (2D)
LV Vol	B6	(Cubeu)	
LV Length			
LV Area			
A4Cs		IVS/LVPW (2D) B6	LA/Ao (2D) B6
LV Vol			
LV Length			
LV Area		,	
LVLd (A4C)		SV (A4C) B6	AoR Diam (2D) B6
LVLs (A4C)		EF (A4C)	

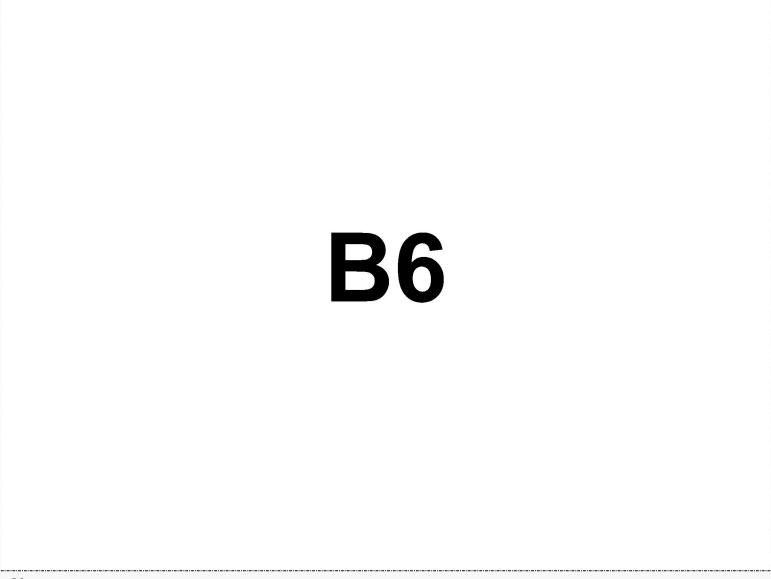
MMode

IVSd (MM)		Teich)	В6	LVPW % (MM)		
LVIDd (MM)		FS (MM-Teich)	26	RVIDd (MM)		
LVPWd (MM)		EF (MM-Teich)	50	LA Dimen (MM)		
IVSs (MM)	B6	EDV (MM- Cubed)		AoR Diam (MM)	B6	
LVIDs (MM)		ESV (MM- Cubed)	36	LA/Ao (MM)		
LVPWs (MM)		SV (MM- Cubed)		MV D-E Exc Dist		
IVS/LVPW (MM)		EF (MM- Cubed)		MV D-E Slope		

B6 121217B 11/01/2017 Created: 03:40AM 11/01/2017 1/4

EDV (MM-MV E-F Slope FS (MM-**B6** Teich) Cubed) **B6 B6** ESV (MM-IVS % (MM) **MV EPSS** Teich) Doppler MV Peak A Vel Lat A`Vel **LVOT Vmax B6** Max PG Vel PG **Vmax RVOT Vmax** E'/A' Lateral B6 MV E/A **B6** Max PG **B6** Vmax MR Vmax Lat E`Vel **TR Vmax** Max PG Max PG **B6 Vmax Vmax** MV Peak E Vel E/Lat E` Vel **B6** PG Other Measurements **Dimensions: 2D LAX** LA lax (2D) **Dimensions: Diameters** LVID/Ao (2D) EF & Volume: Simpson's **B6** Sphericity Id **Dimensions: Diameters LVEDDN** LVID/Ao (2D) **Images B6**



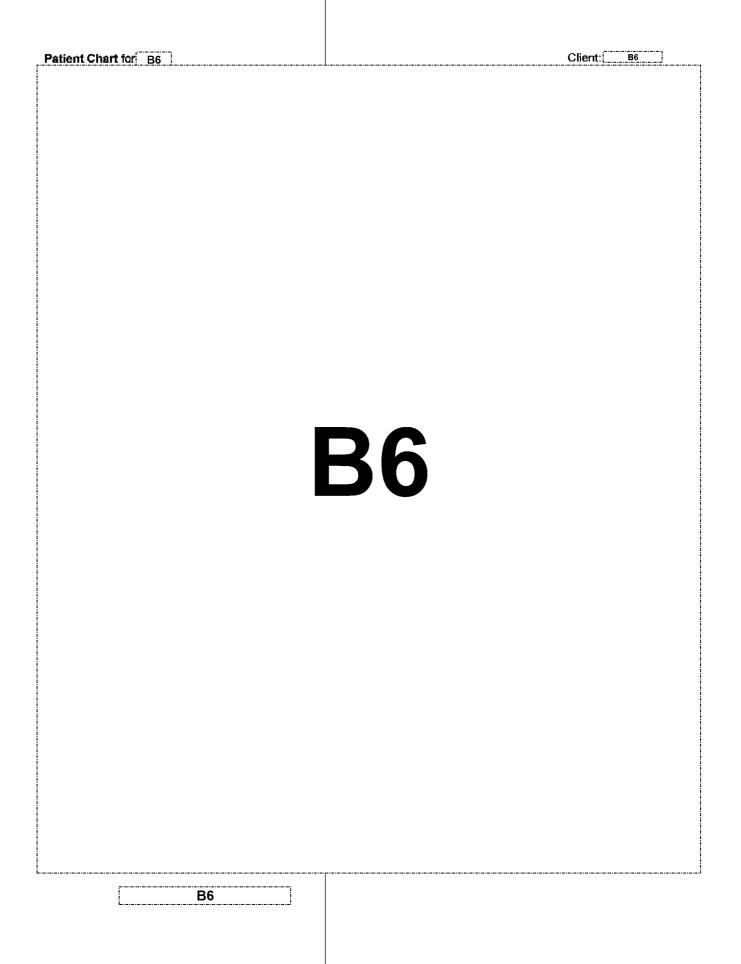


Signature

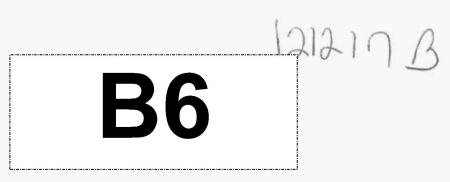
Signature:

Name(Print):

Date:



B6



CVCA CONSULTATION REQUEST FORM

Date: Tuesday, October 31, 2017

Client Id # B6 Client Name: B6
Address: B6 City: B6 State: B6 Zip: B6
Telephone:
Cellular: : B6
Cellular: : BO
Animal Name: B6 Species: Canine Breed: Labrador Retriever Color: Yellow Sex: spayed female Weight: 0Kg. Date of Birth: B6 Age: 13 Yrs. 0 Mos. Referring Veterinary Hospital: No Vet Doctor's Name: No Vet Referring Veterinary Hospital Phone #: B6 B6 Doctor Requesting Consult: B6
Relevant History / Physical Findings: Cough started last Wednesday. Radiographs and blood work were performed. Radiographs revealed suspected cardiomegaly. Blood work showed mild ALP and GGT elevations. The owner made cardio-consultation on Friday however her cough got worse with pink tinged foam so B6 was brought to B6 for a cardiology consultation. B6 has been a healthy dog with no current medications. She is up to date on vaccination and heartworm preventative.
Current Medications: B6 which was stopped because her coughing got
worse with those medications.

Radiographs performed at:	
⊠RDVM □ B6	
Consulting Cardiologist:	
10/31/2017 CVCA Consult 2013 B6	

CVCA, Cardiac Care for Pets **B6**



www.cvcavets.com

Client: B6
Co-owner:
Patient name: B6
Species: Canine
Breed: Labrador Retriever
Sex: FS
Age: B6
Weight: 33.18kg. / 73.15 lbs

Primary Care \	Veterinaria	n:	
Primary Care I	Hospital:		B6
Phone:	B6 ex	d:	
Fax: B6			
Email:			

Cardiac Evaluation Report Exam Date: 02/26/2018

Diagnosis

- Mild, improved dilated cardiomyopathy suspect taurine-responsive
- Mild, improved mitral and very mild tricuspid valve regurgitation as cause of heart murmur
- Normal, improved left atrial chamber dilation
- Mild, improved eccentric left ventricular chamber dilation
- Low normal, improved left ventricular contractility/heart muscle function
- Cough suspect bronchial/primary respiratory disease

Medications

B6

• You may purchase the taurine and L-carnitine at any health food or nutrition store on www.puritanspride.com You	ou
may also obtain the L-carnitine in bulk powder form from North Carolina State University by calling 919-513-632	25.

• Continue with monthly heartworm and flea/tick control as prescribed by B6

Please allow 24-48 hours for CVCA to process prescription refill requests.

Refill all medications indefinitely unless directed by CVCA or your primary care veterinarian.

• Please check all medications and dosages on your discharge report against the pharmacy labels.

Please Note

• Please see our website www.cvcavets.com for more information about B6 dilated cardiomyopathy.

	,,
	0.404 - DC - 0.0000040
Information for! B6 i	CVCA! B6 ! 03/28/2018
Information for! B6 i	

Nutrition Recommendations:

- Continue the Royal Canin Early Cardiac diet.
- Consider fish oil supplements (omega-3 fatty acids). Her dose is approximately EPA 1220 mg and DHA 760 mg total per day. Please start at 1/2 the dose for one week, then increase to the full dose if tolerating well thereafter. Please avoid Cod liver oil and flax seed as well as products with Vit A and/oiD.

For more information about fish oils, please visit -- http://vet.tufts.edu/heartsmart/diet/important-nutrients-for-pets-with-heart-disease/

• In addition to the supplements approved by Tuft's Veterinary Nutrition Service, other reputable brands include Welactin and Nordic Naturals. Swan Creek Veterinary Clinic may have additional brand recommendations.

Activity Recommendations

- Continue normal activity as she wants and is able to do. Please allow **B6** to take more breaks and rest during activity.
- Please avoid exercise in the hot/humid weather.

At Home Monitoring:

• In order to monitor for the development of early congestive heart failure in the out-patient setting, we recommend monitoring your pet's resting respiratory rate several times a week. Normal resting respiratory rates should be less than 30 breaths per minute. Consider using a respiratory rate monitoring application to tract spiratory rate. Cardalis or BI Pharma have reliable phone applications. Please contact us if you note a persitent or progressive increase.

increase. **Future Anesthesia/Fluid Recommendations** Reevaluation **B6** Recheck with the next 2-4 weeks and every 6 months for wellness care as directed, close auscultation, blood pressure and complete lab tests including blood and urine testing (CBC/Chemistry/Urinalysis/ Thyroid evaluation). Please forward these results when available. Please recheck with CVCA in 6 months for a follow up consultation/examination, blood pressure, and echocardiogram. Please contact us or schedule an earlier appointment i B6 as any problems or symptoms indicative of worsening heart disease or if recommended by We thank you for trusting in CVCA to care for B6 today. Please do not hesitate to call us with any questions or concerns. Sincerely, Visit Summary Heart Rate: B6 BP: Cuff Size/Location: B6 **B6** History: Recheck DCM, suspected early CHF; doing well; RRR - B6 in January due to increased

cough; cough seems to be intermittent and related to excitement; good appetite; 3 kg weight gain since 10/2017; walks

30-45 minutes per day - slow pace, at times winded but recovers very quickly.

CVCA **B6** 03/28/2018

B6 developed a cough last Wednesday (10/25/17). Radiographs and blood work were performed by B6 and GGT B6 and mild lymphopenia. Thoracic radiographs were performed which revealed cardiomegaly. B6 was treated with B6 All medications were stopped on Monday as her cough had worsened and she was presented to the B6 for a cardiac evaluation as her coughing had worsened and she had brought up a small volume of pink-tinged foam after a coughing fit. During this time there has been no evidence of lethargy and she continues to eat and drink normally at home.
PPHx: None Meds: None Other: B6 Diet: changed from Zignature (Kangaroo) to Royal Canin Early Cardiac
Physical Exam Findings: 3/6 pansystolic murmur, PMI - mitral valve, regular rhythm with S3 gallop; LUNGS - clear all fields, panting, normal effort; SI. overweight body condition (BCS - B6 Pink mm; PP - SS; PLN - WNL; ABD - hepatomegaly; BAR
Echocardiographic Findings Mild left ventricular eccentric dilation - significant improvement compared to previous exam; mild, improved centrally located mitral regurgitant jet, normal, improved left atrial dimensions on 2D imaging and on M-mode imaging, mild, low velocity eccentric low velocity tricuspid regurgitation, subjectively normal right ventricular and right atrial dimensions, normal left and right ventricular outflow velocities, low normal, improved indices of systolic function (FS% and EF% by modified Simpson's, normal EPSS, normal transmitral inflow velocities and E:A wave ratio on spectral Doppler tracings, normal TDI E':A' ratio of the lateral mitral annulus, no masses, effusions or heartworms observed.
Dear B6
Thank you for sending B6 to see us with B6 today. I am quite pleased with B6 exam today. She has had remarkable improvement in her echocardiogram with the cardiac medications, change in diet and supplementation with Taurine and L-carnitine. Her risk for congestive heart failure at this point is very low so we will be weaning B6 off the B6 while B6 monitors B6 respiratory rate. Her current cough is likely due to respiratory disease and if the cough progresses/worsens, we will consider adding in a B6, such as B6 Right now, with the marked improvement, B6 long-term prognosis has improved considerably. I suspect we will be able to further discontinue cardiac medications if her heart remains stable. We will continue to closely monitor B6 heart disease via serial echocardiography and institute further therapy when progression is noted. While on this course of medication, it is important to monitor the chemistry profiles and blood pressures. Hopefully, B6 will continue to do so well - she's a sweety!
We appreciate your continued referrals and the trust you place in CVCA to co-manage your cardiac patients. We look forward to working with you on this case and others. In an effort to continue to improve CVCA's service to both you and your clients, please visit our website atwww.cvcavets.com and complete our online referring veterinarian survey.
Sincerely,
B6 DVM, DACVIM - Cardiology

FDA-CVM-FOIA-2019-1704-008558

CVCA **B6** 03/28/2018

Information for B6

Patient Demographics

B6 Study Date: 02/26/2018

DOB: Age: Gender: Ht: Wt: 73lb 0oz BSA:

Institution **B6**Referring Physician:

Physician of Record: Performed By: B6

Comments:

Adult Echo: Measurements and Calculations

2D

LVIDd (2D)		LVAd (A4C)	IVSd (2D)
LVPWd (2D)		LVAs (A4C)	RVIDd/LVIDd
EDV (2D- Teich)		EDV (A4C)	RVIDd (2D)
EDV (2D- Cubed)		ESV (A4C)	LA Area B6
A4Cd LV Vol LV Length LV Area	B 6	LV Mass (Cubed) B6	LA Dimen (2D)
A4Cs LV Vol LV Length LV Area		IVS/LVPW (2D)	LA/Ao (2D)
LVLd (A4C)		SV (A4C)	AoR Diam (2D) B6
LVLs (A4C)		EF (A4C)	HR - AV

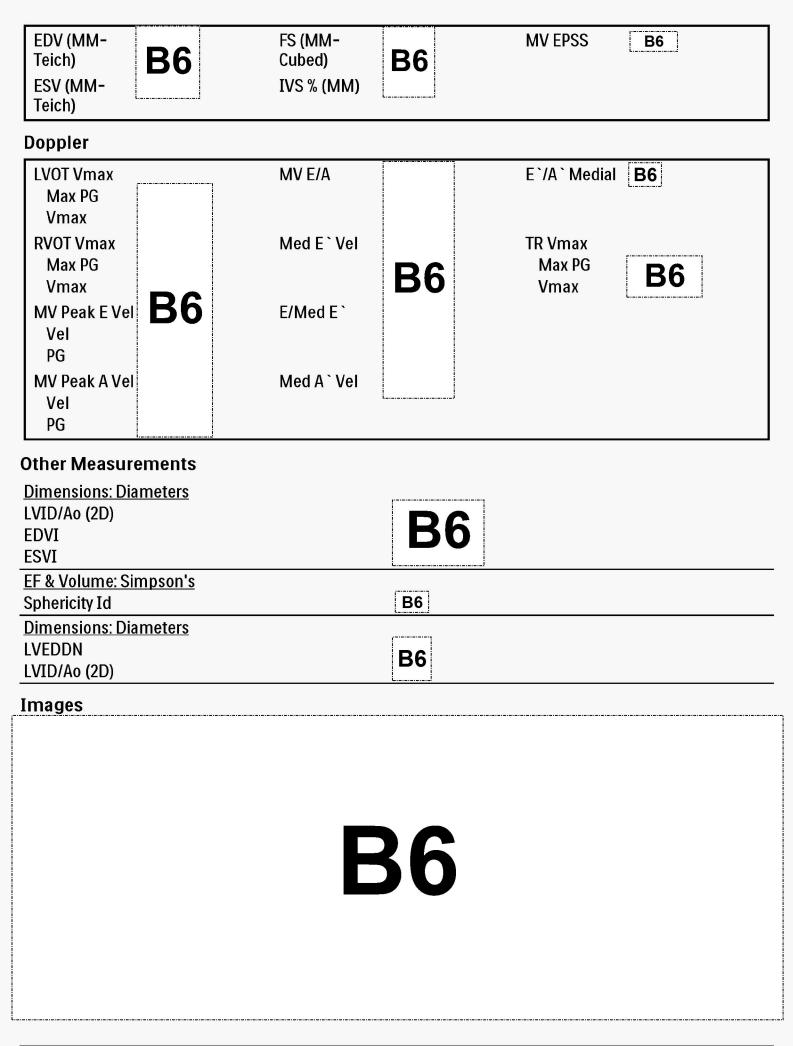
MMode

IVSd (MM)		SV (MM- Teich)		LVPW % (MM)	
LVIDd (MM)		FS (MM-Teich)		RVIDd (MM)	
LVPWd (MM)		EF (MM-Teich)		LA Dimen (MM)	
IVSs (MM)	B6	EDV (MM- Cubed)	B6	AoR Diam (MM)	B6
LVIDs (MM)		ESV (MM- Cubed)		LA/Ao (MM)	
LVPWs (MM)		SV (MM- Cubed)		MV D-E Slope	
IVS/LVPW (MM)		EF (MM- Cubed)		MV E-F Slope	

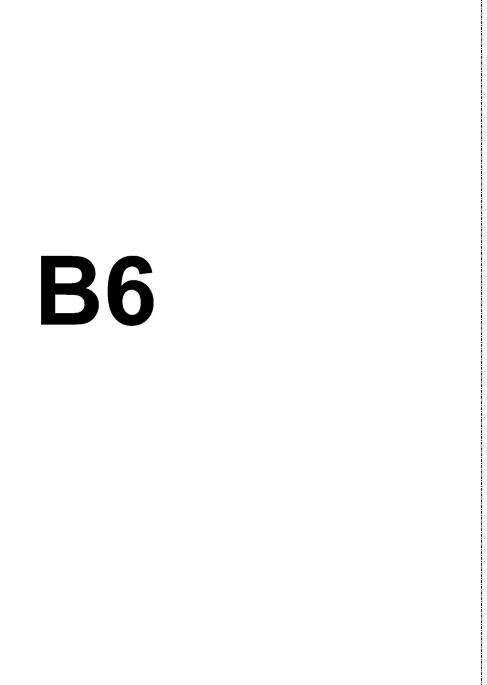
B6 121217B02262018

02/26/2018

Created: 02:56PM 02/26/2018



B6



Signature

Signature:

Name(Print):

Date:

CVCA. Cardiac Care for Pets **B6**



www.cvcavets.com

Client: B6
Co-owner:
Patient name: B6
Species: Canine
Breed: Labrador Retriever
Sex: FS
Age: B6
Weight: 33.18kg. / 73.15 lbs

Primary Care Veterinari	an: B6
Primary Care Hospital:	
Phone: B6	ext:
Fax: B6	
Email:	

Cardiac Evaluation Report Exam Date: 10/31/2017

Diagnosis

- Advanced dilated cardiomyopathy ruleout idiopathic vs. taurine-responsive
- Mild to moderate mitral valve regurgitation as cause of heart murmur
- Trace tricuspid valve regurgitation
- Moderate to severe left atrial chamber dilation
- Severe eccentric left ventricular chamber dilation
- Moderate to severe decrease in contractility/heart muscle function
- · Mild left ventricular wall thinning

Information for B6

- Mild right atrial and right ventricular chamber dilation
- Progressive cough rule out: early left sided congestive heart failure vs. mainstem bronchial compression

Medications B6 In 2 weeks, if B6 is eating and feeling well: B6

CVCA **B6** 03/28/2018

B6
se the taurine and L-carnitir

• You may purchase the taurine and L-carnitine at any health food or nutrition store on www.puritanspride.com. You may also obtain the L-carnitine in bulk powder form from North Carolina State University by calling 919-513-6325.

Please allow 24-48 hours for CVCA to process prescription refill requests.

Refill all medications indefinitely unless directed by CVCA or your primary care veterinarian.

• Please check all medications and dosages on your discharge report against the pharmacy labels.

Please Note

• Please see our website www.cvcavets.com for more information about B6 dilated cardiomyopathy.

Nutrition Recommendation	Ν	lutriti	on	Re	eco	mm	ien	da	itio	n	S
--------------------------	---	---------	----	----	-----	----	-----	----	------	---	---

- B6 is on a specialized diet which could be contributing to taurine deficiency. Please change her to a new diet, as her housemate is on a novel protein diet consider prescription diets such as Royal Canin or Science Diet. Please discuss diet options with B6
- In patients with early/mild heart failure, CVCA recommends feeding a diet with less than 80 mg of sodium per 100 kCal of food (50-80 mg/100 kCal). In patients with refractory heart failure signs, further sodium restriction may be beneficial.
- For more information about sodium content of various foods, please visit:
 - Dog: http://vet.tufts.edu/wp-content/uploads/reduced_sodium_diet_for_dogs.pdf
 - Treats: http://vet.tufts.edu/wp-content/uploads/treats_for_dogs_with_heart_disease.pdf
- CVCA recommends avoiding kidney diets unless **B6** has kidney disease that warrants protein restriction.
- Diet changes should be done gradually (ie. over ~1 month) to avoid GI upset and avoided until Lucy is stable and eating well on the cardiac medications, usually about 2 weeks after starting or adjusting therapy.
- If you are interested in a consultation with a veterinary nutritionist, please visit http://vetnutrition.tufts.edu/make-an-appointment/
- CVCA recommends fish oil supplements (omega-3 fatty acids) in many dogs with cardiac disease. Her dose should be approximately EPA 1220 mg and DHA 760 mg total per day. Please start at 1/2 the dose for one week, then increase to the full dose if tolerating well thereafter. Please avoid Cod liver oil and flax seed as well as products with Vit A and/or D.

For more information about fish oils, please visit --http://vet.tufts.edu/heartsmart/diet/important-nutrients-for-pets-with-heart-disease/

• In addition to the supplements approved by Tuft's Veterinary Nutrition Service, other reputable brands include Welactin and Nordic Naturals.

• In addition to the supplements approved by Tuft's Veterinary Nutrition Service, other reputable brands include Welactin and Nordic Naturals.

Activity Recommendations

- Keek **B6** very quiet for the next 3-4 days with only brief leash walks to eliminate.
- Once her coughing has resolved **B6** may gradually resume activity as she wants and is able to do. Please allow **B6** to take more breaks and rest during activity.
- Please try avoid <u>burst type</u> activity, as this increases the arrhythmia risk and avoid exercise in the hot/humid weather.
- Please try to wart **B6** up for 5-10 minutes with walking prior to moderate activity and take more rests during more vigorous activity.

At Home Monitoring:

- Monitor for signs of cough, respiratory difficulty, exercise intolerance, abdominal swelling, weakness, lethargy, etc. If you note any of these symptoms, please notify CVCA of B6 is these symptoms may indicate recurrent congestive heart failure. If you note an increase in cough, respiratory rate or effort, please feel free to give an additional dose of B6 while contacting CVCA.
- In order to monitor for the development of early congestive heart failure in the out-patient setting, we recommend monitoring your pet's resting respiratory rate several times a week. Normal resting respiratory rates should be less than 30 breaths per minute. Consider using a respiratory rate monitoring application to trace B6 respiratory rate Cardalis or BI Pharma have reliable phone applications. Please contact us if you note a persitent or progressive increase.
- In additio **B6** is sadly at increased risk for sudden cardiac death due to her cardiac disease. Dobermans are particularly at risk for development of severe, sudden malignant arrhythmias that sadly may result in sudden death. However, we hope to minimize these risks with our treatment plan.

CVCA **B6** 03/28/2018

B6
Reevaluation
• Please recheck with B6 in the next day or two to obtain taurine levels. Please forward these results when available. • Please recheck with B6 in 2 weeks for a follow up examination and blood chemistry profile with electrolytes and as recommended by B6 Please forward these results when available. • Please recheck with B6 Please forward these results when available. • Please recheck with electrolytes and as recommended by B6 Please forward these results when available. • Please recheck with CVCA in 5 months for a follow up consultation/examination, blood pressure, and echocardiogram. Please contact us or schedule an earlier appointment in B6 has any problems or symptoms indicative of worsening heart disease or if recommended by B6
Visit Summary Heart Rate: B6 BP: B6 (based on MR gradient)
History: B6 Goased on Mirk gradient) History: B6 developed a cough last Wednesday (10/25/17). Radiographs and blood work were performed by B6 Veterinary Clinic. The lab work (which is unavailable for review) reportedly showed an elevated ALP B6 and GGT B6 and mild lymphopenia. Thoracic radiographs were performed which revealed cardiomegaly. B6 was treated with B6 All medications were stopped on Monday as her cough had worsened and she was presented to the B6 for a cardiac evaluation as her coughing had worsened and she had brought up a small volume of pink-tinged foam after a coughing fit. During this time there has been no evidence of lethargy and she continues to eat and drink normally at home.
PPHx: None
Meds: None Other: B6 Dist: Zignature (Kangaras)
Diet: Zignature (Kangaroo)
Physical Exam Findings
B6
H/L: Grade 2/6 left apical protosystolic heart murmur, regular rhythm, strong synchronous femoral pulses, RR: B6! breaths/min, questionable mild increase in bronchovesicular sounds bilaterally, no crackles or wheezes ausculted, eupneic
B6
Other Diagnostics: 10/27/17 pDVM CXR: Generalized cardiomegaly characterized by widening of the cardiac silhouette and loss of the caudal cardiac waist consistent with left atrial enlargement. Slight left auricular bulge. Increased sternal contact and rounding of the right heart on the VD radiograph. Dorsal deviation of the trachea. Prominent pulmonary vasculature with a questionable mild increase in interstitial opacity in the caudodorsal lung fields which may suggest early congestive heart failure/pulmonary edema.
Echocardiographic Findings Severe left ventricular eccentric hypertrophy with apical rounding and increased spherocity, mild-moderate centrally
Information for B6 03/28/2018

located mitral regurgitant jet, moderate-severe secondary left atrial dilation on 2D imaging and moderately-severely increased LA:Ao ratio on M-mode imaging, mild eccentric low velocity tricuspid regurgitation with mildly elevated estimated right ventricular pressures consistent with mild pulmonary hypertension, mild right ventricular and right atrial dilation, normal left and right ventricular outflow velocities, moderately to severely depressed indices of systolic function (FS% and EF% by modified Simpson's - LVDI B6 , LVSI B6), increased EPSS, elevated transmitral inflow velocities and E:A wave ratio on spectral Doppler tracings, normal TDI E':A' ratio of the lateral mitral annulus, no masses, effusions or heartworms observed. ECG during echocardiogram: Normal sinus rhythm. No ventricular ectopy noted.
Comments
Dear B6
Thank you for sending B6 to see us with B6 today. Sadly, B6 has dilated cardiomyopathy with moderate to severe systolic dysfunction and moderate to severe left atrial dilation. This places her at a high risk of developing congestive heart failure and with the progression in her cough I am concerned that we may be dealing with congestive heart failure at this time. We have begun therapy to control congestive heart failure, support cardiac function, slow down the progression of the heart disease and improve survival. We are now seeing more dogs on specialized diets that are developing taurine deficiency and we have discussed submission of taurine levels to evaluate whether this may be a contributing factor to B6 condition. B6 is interested in pursuing this test at your clinic, taurine levels should be drawn and placed in a heparinized tube (green top) and should be frozen and submitted to Idexx (who sends it to UC Davis). It will be interesting to see if this is a contributing factor to B6 condition.
We will continue to closely monitor B6 heart disease via serial echocardiography and institute further therapy when progression is noted. While on this course of medication, it is important to monitor the chemistry profiles and blood pressures. Dogs with dilated cardiomyopathy are at a higher risk of developing ventricular arrhythmias. None were noted today; however, it will be important to monitor for arrhythmias periodically in the future. Unfortunately, the prognosis is guarded after the onset of congestive heart failure, and we discussed with the B6 family that the average survival is ~ 6-12 months. Survival time is highly individually variable depending on response to therapy.
We appreciate your continued referrals and the trust you place in CVCA to co-manage your cardiac patients. We look forward to working with you on this case and others. In an effort to continue to improve CVCA's service to both you and your clients, please visit our website at www.cvcavets.com and complete our online referring veterinarian survey.
Sincerely, B6 VMD, DACVIM - Cardiology

Information for B6

Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo>

To: Rotstein, David; Palmer, Lee Anne; Carey, Lauren

CC: Peloquin, Sarah **Sent:** 12/6/2018 5:56:09 PM

Subject: RE: 800.267-cc-150-EON-369268 B6 Fromm Four-Star Nutritionals Game Bird

Attachments: MRx.zip

From:

B6	1	yr	FS	Golden	Retrieve
-----------	---	----	----	--------	----------

B6

Presented 9/25/2018: discussed cardiomyopathy of GRTs; been on GF diet

WB Tau- **B6** (Davis)

10/19/2018 cardio: screening echo b/c on GF diet and low Tau; asymptomatic

PE-nsf

Echo-occult DCM-sys dyxfxn, LV dil

Tx **B6** diet change, 0.5g Tau BID, OFAs, poss L-carn

Jennifer Jones, DVM Veterinary Medical Officer

Tel: 240-402-5421



From: PFR Event cpfreventcreation@fda.hhs.gov>
Sent: Wednesday, October 24, 2018 4:35 PM

To: Cleary, Michael * <Michael.Cleary@fda.hhs.gov>; HQ Pet Food Report Notification

Subject: Fromm Four-Star Nutritionals Game Bird Recipe Dog Food: - EON-369265

A PFR Report has been received and PFR Event [EON-369265] has been created in the EON System.

A "PDF" report by name "2057000-report.pdf" is attached to this email notification for your reference. Please note that all documents received in the report are compressed into a zip file by name "2057000-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-369265

ICSR #: 2057000

EON Title: PFR Event created for Fromm Four-Star Nutritionals Game Bird Recipe Dog Food; 2057000

AE Date	10/19/2018	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	Retriever - Golden		
Age	1 Years		

Product information

Individual Case Safety Report Number: 2057000

Product Group: Pet Food

Product Name: Fromm Four-Star Nutritionals Game Bird Recipe Dog Food

Description: B6 was tested to have whole blood taurine of B6 and was diagnosed with occult dialated

cardiomyopathy by echo. Submission Type: Initial

Report Type: Adverse Event (a symptom, reaction or disease associated with the product)

Outcome of reaction/event at the time of last observation: Stable

Number of Animals Treated With Product: 1
Number of Animals Reacted With Product: 1

Product Name	Lot Number or ID	Best By Date
Fromm Four-Star Nutritionals Game Bird Recipe Dog Food		

Sender information

B6

USA

To view this PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-369265

To view the PFR Event Report, please click the link below:

https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none&e=0&issueType=12&issueId=386187

This email and attached document are being provided to you in your capacity as a Commissioned Official with the U.S. Department of Health and Human Services as authorized by law. You are being provided with this information pursuant to your signed Acceptance of Commission.

This email message is intended for the exclusive use of the recipient(s) named above. It may contain information that is protected, privileged, or confidential. Any dissemination, distribution, or copying is strictly prohibited.

The information is provided as part of the Federal-State Integration initiative. As a Commissioned Official and state government official, you are reminded of your obligation to protect non-public information, including trade secret and confidential commercial information that you receive from the U.S. Food and Drug Administration from further disclosure. The information in the report is intended for situational awareness and should not be shared or acted upon independently. Any and all actions regarding this information should be coordinated through your local district FDA office.



B6

	D 0	ONS AND REFERRAL CORRESPON	
Primary Veterinari Phone number:			
riiviie iluiibei:[B6		
Owner's name Phone number	B 6		機 化 化 发
Patient Name:	В6	Weight: 28.6 Kgs	,4. **\$
Section to the section of the sectio	Canine '	Breed: Retriever, Golden	******
Sex:	Spayed Female	Age: B6	4)
dmission Date:			
Discharge Date:	B6		
L			
L		diogram for DCM R6 is currently in	a Grain free diet and a l
L_ History: Presented	for Screening Echocar	diogram for DCM B6 is currently in No signs of cardiac disease noted by	a Grain free diet and a le
L. History: Presented	for Screening Echocar	diogram for DCM B6 is currently in No signs of cardiac disease noted by	a Grain free dlet and a lo the owner.
L_ History: Presented	for Screening Echocar	diogram for DCM B6 is currently in No signs of cardiac disease noted by	a Grain free dlet and a lo the owner.
L. History: Presented	for Screening Echocar	diogram for DCM B6 is currently in No signs of cardiac disease noted by	a Grain free diet and a k
L. li stor y: Presented	for Screening Echocar	diogram for DCM B6 is currently in No signs of cardiac disease noted by	a Grain free diet and a lo
L. History: Presented	for Screening Echocar	diogram for DCM B6 is currently in No signs of cardiac disease noted by	a Grain free dlet and a lo
L. History: Presented	for Screening Echocar	No signs or cardiac disease noted by	a Grain free dlet and a lo
L. li stor y: Presented	for Screening Echocar	No signs or cardiac disease noted by	a Grain free diet and a lo
L. History: Presented	for Screening Echocar	No signs or cardiac disease noted by	a Grain free dlet and a le the owner.
L. History: Presented	for Screening Echocar	No signs or cardiac disease noted by	a Grain free diet and a li the owner.
L_ History: Presented	for Screening Echocar	diogram for DCM B6 is currently in No signs of cardiac disease noted by	a Grain free diet and a l
L. History: Presented	for Screening Echocar	No signs or cardiac disease noted by	a Grain free diet and a l
L_ History: Presented	for Screening Echocar	No signs or cardiac disease noted by	a Grain free diet and a l
L_ History: Presented	for Screening Echocar	No signs or cardiac disease noted by	a Grain free dlet and a l
L_ History: Presented	for Screening Echocar	No signs or cardiac disease noted by	a Grain free diet and a

Diagnostic Tests Performed

Echocardiogram: Evidence of occult dilated cardiomyopathy (DCM) based systolic dysfunction and left ventricular dilation noted on the echocardiogram today. Treatment with B6 sas been shown to significantly delay the onset of congestive heart failure (CHF) in these dogs. Since B6 is an atypical breed to develop DCM, and the fact that she was being fed a grain free diet, with a low blood taurine level, we suspect that the cause is dietary taurine deficiency in golden retriever.

Clinical Diagnosis: Occult Dilated Cardiomyopathy - suspect dietary deficiency. Taurine is an amino acid that is found in high concentrations in heart and muscle. Among its many functions, it aids in normal contractile function. Evidence shows that taurine helps mediate calcium channel transports and modulates calcium sensitivity of the myofibrils. Taurine deficiency as a cause of dilated cardiomyopathy (DCM) is not a new issue. Taurine deficiency in cats was characterized by Pion et al in the late 1980s. Taurine deficiency has since been characterized as a cause of acquired DCM in dogs as well.

Treatment and Recommendations: Ongoing monitoring is recommended for signs of lethargy, decreased appetite, coughing, weakness/collapse, increased respiratory effort or rate (>40 breaths per minute AT REST) as these may be signs of progression of cardiac disease. If any of these signs are noted, please contact a sto veterinarian.

Medications:

Diet: We recommend switching diet to a regular dog balanced diet and supplement Taurine and Omega 3 as follow. Taurine dose in dogs is 500 mg/ dog PO q 12h. Omega-3 fatty acids may improve appetite and reduce cachexia (EPA 30-40 mg/kg PO q 24h, DHA 20-25 mg/kg PO q 24h). Consider I -carnitine (110 mg/kg PO q 12h) in dogs not responding to taurine.

Results Pending: None.

Progress Exam: We recommend a recheck Echocardiogram in 1 month, or sconer should you notice clinical signs listed above.

	Questions	s or Problem	ns: If any	problems or	questions a	rise	associated with	the proc	: Wind beauther	i tto
	neament	benomined si	L į	B6	i Die	ase	do not hesitate	to roll	ne of R6	1 500
أر	B6	If any probl	lems or ques	stions arise o	concerning	B6	deneral health	nlease	contact Tir	! :::332
Ĺ	B6	11 3	you nave ar	emergency	outside of	our_	business hours	nlease	contact that	54
ì		В	36		with location	s in		R6		1925
į	E	36	1			L				<u> </u>
١	ч-	· · · · · · · · · · · · · · · · · · ·			:				44. ** 1 2	
["										

B6 Approved By: **B6**

Owner/Agent's Signature of

B6

Doctor 1 Parka Ka

(1) 11 15 T

B4

DISCHARGE INSTRUCTIONS AND REFERRAL CORRESPONDENCE

Primary Veterinarian: B4 B6

Phone number: B4, B6

Owner's name: B6

none number 20

Patient Name: B6
Species: Canine
Sex: Spayed Female

Admission Date: 10/19/2018 Discharge Date: 10/19/2018

History: Presented for Screening Echocardiogram for DCM. **B6** is currently in a Grain free diet and a low Taurine level was noted on her blood work. No signs of cardiac disease noted by the owner.

Weight:

Breed:

Age:

28.6 Kgs

1 Yrs. 10 Mos.

Retriever, Golden

B6

Diagnostic Tests Performed: Echocardiogram: Evidence of occult dilated cardiomyopathy (DCM) based systolic dysfunction and left ventricular dilation noted on the echocardiogram today. Treatment with has been shown to significantly delay the onset of congestive heart failure (CHF) in these dogs. Since B6 is an atypical breed to develop DCM, and the fact that she was being fed a grain free diet, with a low blood taurine level, we suspect that the cause is dietary taurine deficiency in golden retriever. Clinical Diagnosis: Occult Dilated Cardiomyopathy - suspect dietary deficiency. Taurine is an amino acid that is found in high concentrations in heart and muscle. Among its many functions, it aids in normal contractile function. Evidence shows that taurine helps mediate calcium channel transports and modulates calcium sensitivity of the myofibrils. Taurine deficiency as a cause of dilated cardiomyopathy (DCM) is not a new issue. Taurine deficiency in cats was characterized by Pion et al in the late 1980s. Taurine deficiency has since been characterized as a cause of acquired DCM in dogs as well. Treatment and Recommendations: Ongoing monitoring is recommended for signs of lethargy, decreased appetite, coughing, weakness/collapse, increased respiratory effort or rate (>40 breaths per minute AT REST) as these may be signs of progression of cardiac disease. If any of these signs are noted, please contact a veterinarian. Medications: 1. **B6** Diet: We recommend switching diet to a regular dog balanced diet and supplement Taurine and Omega 3 as follow. Taurine dose in dogs is 500 mg/ dog PO q 12h. Omega-3 fatty acids may improve appetite and reduce cachexia (EPA 30-40 mg/kg PO q 24h, DHA 20-25 mg/kg PO q 24h). Consider I -carnitine (110 mg/kg PO q 12h) in dogs not responding to taurine. Results Pending: None. Progress Exam: We recommend a recheck Echocardiogram in 1 month, or sooner should you notice clinical signs listed above. Questions or Problems: If any problems or questions arise associated with the procedures and treatment performed at please do not hesitate to call us at B6 If any problems or questions arise concerning general health, please contact Dr. **B6 B6** If you have an emergency outside of our business hours, please contact the A **B6 B6** Board Certified Specialist - Cardiology **B6** Approved By: Owner/Agent's Signature of **B6**

Doctor

DATE	WEIGHT	TREATMENT AND PROGRESS
2578		DE Discuss condumyopathy in ANIMA DE
-		Orden let also good relative Home B6
		iseven + drain Mee diet.
		+101.4 P 120 R Panting
		that been only from the died on and
		Concerned about possible since with
	- Annothing the state of the st	Dem. Sending blood to UC Davis for Jamen
		1/m to see how with at specialist
-16-18	19	
VIV 10		Stated Related to B6
N. 8 18	· · · · · · · · · · · · · · · · · · ·	2701111 192000 10 20
0-23-	.0	Tr- In De Condition of their me and me
U+ L3		with tamme
A CONTRACTOR OF THE PARTY OF TH		

pipenie.		
NAMES OF PERSONS ASSESSED ASSESSED ASSE		
Marie St. J.		
	<u> </u>	
. And and and and and and and and and and a		
ANNAMAS S		
· · · · · · · · · · · · · · · · · · ·		
411		

20. Chamilla Lattica.		
τ,	(a) (, g	

DAT	E WEIGHT		TI	REATMENT	AND PRO	GRESS	
AGGMANN T	9 70	LM	AL . DOWNER OF THE REAL PROPERTY AND THE REA	A. J. 200001.	1944. 412009		ANIMA DO
15-19) TC	Doing 1	nuch	hever	ğ İstinayası (1911-1911) aylayları		NAME HOME B6
1-23-19	3/OC	Reneu	2	B6		(df30)	WORK
		T (3D	B6	PRODUCTION (1990)	100		X
1-818	(02.0	TUANA		_л	100	HWT7)	F04)
70.40	- Juan					20	VI
				B6			QD
- -		500	W /B	TWW.	200	exister	the
2-9-18)	10	SEAL Y	- CO		ho sa	
27818	9	<u> L_/m</u>			<u>\$</u> .		
328-1	St						
1							
41218	8/1097			ı			
<u> </u>					B	6	
						U	
5.414.000.000.000.000							
SANSARASE. YA							
***************************************		colifs	777	<u>(2) </u>	Ь	6	6020) 7 LOS
4-14-18	3 72	Um		\$2	В	O	12 N) V VQ
4-23-18	1	Revew	В6	C	VriA)	1 OD	
		LEYELD VER	TO pet	70Q.		B6	The state of the s
5-181 62011	8 66	Renew			30cH)	+ 1 Wi	
	8 00	Benew	B	6	3004	100	Lancard Control of the Control of th
8-12-1		Renew		O	(300	7 1QD	Management of the state of the
7-24-1	8 100	Renew			(30ct)	100	
**********	was constant of the constant o	, i		and the state of t		20000000000000000000000000000000000000	A-4-TOTHER TO SOCIO STATE AND A SOCIO STATE AND A SOCIA STATE AND A SOCIAL TO THE ADDRESS OF THE
· · · · · · · · · · · · · · · · · · ·				ALWANIA (A. A. A. A. A. A. A. A. A. A. A. A. A. A		MATERIA SERVICE SERVIC	
**************************************				A CALLAND MANAGEMENT OF THE PROPERTY OF THE PR	THE CONTRACT OF THE CONTRACT O	, , , , , , , , , , , , , , , , , , ,	AND COLOR OF THE PROPERTY OF T
*			The second secon	A. A. A. A. A. A. A. A. A. A. A. A. A. A			Uh AFEL (SELECTION OF THE PROPERTY OF THE PROP

DATE WEIGHT	TREATMENT AND P	
4217092	B6	ANIMAL B6
01-13-10 17 /	/m	HOME DO
1-25-17 80	1.1.1.	NIODK
(521220)	R	6
5-23-17 39-2		
6-20-17 45.4		
60mnh(a)	B6	AND ADDRESS OF THE PARTY OF THE
9-23-1-56-2		- you full
10-28-1758.2		
11-18-17 58.2		
20000000000000000000000000000000000000		
		36
V-281 CM4		
2		
12-29-17 12		
1-0-18 180-8		
AND THE PROPERTY OF THE PROPER		
-		
	The state of the s	4

					В	6					
Owner's Name	В	3		ANII	MAL F	RECOR	D		Phone_	В	5
Animal's Name	В6			All the second s	Specie	s Ka	- 1-1	Allerg	ies	And the second s	inggerieren och militarisk sider i statisk sid
Sex	Birtho	late	B6	Breed	olden i	Color					
Rabies		147.8130 (00000000000000000000000000000000000			T. MICACO						1
DHLPP							17 th 4				
HW							1	11.7	**************************************		
Bordetella	# # # # # # # # # # # # # # # # # # #										
FVR-CP		21.00	K 325							To the Later to the Control of the C	1
FeLV									1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
FIP							N 4 12 198 1				
		1 7 7				T			1 11 4		1
				MA	JOR PR	OBLEM			And the second s		Red Desired Assessment Street
				MA	JOR PR	OBLEM			2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		And Andrews Control of the Control o
		and the second s		MA	JOR PR	OBLEM					
					JOR PR				3 A. 3.		

B6

B6

DISCHARGE INSTRUCTIONS AND REFERRAL CORRESPONDENCE

Primary Veterinarian; Dr. B6
Phone number: B6

Owner's name: B6

Patient Name: B6 Species: Canines

Sex: Spayer:Eenrale

Admission Date: 10/19/2018 : 19/19/2018 : Discharge Date: 10/19/2018

History: Presented (or Screening Echocardiogram for DCM B6 scurrently in a Grain free diet and a low Taurine lavel was noted by the owner.

Breeds

Age:

Weight. #28.6 Kgs

Ratilever, Golden

B6

679 Normal sinus rhythm, no murmurs or armythmias another

B6

aggnostic Tests Pe	orformed~			in the second se
significantly delay the develop DCM, and the	dence of occult dilated cardlo oted on the echocardiogram to a onset of congestive heart fai ne fact that she was being fed tary taurine deficiency in golde	oday. Treatment with Blure (CHF) in these dogs. So a grain free diet, with a low	6 has been show Since B6 is an atyp	n to ical breed t
is found in high cond function. Evidence s sensitivity of the my Taurine deficiency in	Occult Dilated Cardiomyopath entrations in heart and muscle hows that taurine helps media ofibrils. Taurine deficiency as a cats was characterized by Picause of acquired DCM in dogs	 Among its many function te calcium channel transpo a cause of dilated cardiomy on et al in the late 1980s. T 	s, it aids in normal con rts and modulates calc opathy (DCM) is not a	tractile xum new issue.
appetite, coughing, t	ommendations: Ongoing mo weakness/collapse, increased ns of progression of cardiac di	respiratory effort or rate (>	40 breaths per minute	AT REST)
i I		B6		;. a
follow. Taurine dose cachexia (EPA 30-4 12h) in dogs not res Results Pending: 1		12h. Omega-3 fatty acids n mg/kg PO q 24h). Conside	nay improve appetite a er i -carnitine (110 mg/	nd reduce kg PO q
signs listed above Questions or Rich	alems: If any problems or tal Affiliated Vetermary Spi	questions anser associated	I with the procedulate	
T APERDALISM SECUREDAL				
B6	MODEL EVEN CO		B6	
The second secon		Brand Ventried Spacialist	* Cardiology	
B6 Persovansy		B 6		

22470

Amino Acid Laboratory Sample Submission Form

Amino Acid Laboratory

1089 Veterinary Medicine Drive

Davis, Ca 95616

Telephone: 530-752-5058, Fax: 530-752-4698

Email: ucd.aminoacid.lab@ucdavis.edu

www.vetmed.ucdavis.edu/labs/amino-acid-laboratory

Veterinarian Conta	Ct:	B6	AL PLANE ALLE LIAM	я	
Clinic/Company Na	me:		В6		· · · · · · · · · · · · · · · · · · ·
Address:					
Emall:		B			
Telephone:					
Billing Contact:	B6	and the second s	Email:	В6	77
Patient Name:	DU	اِ	les: <u>Cani</u>	16	(
Breed: Gold	en Retriever	_ Own	er's Name:	В6	
Current Diet :	Fromm Game Bird R	<u>ecipe with Pri</u>	mal raw toppe	r and raw goat	s milk
Sample type: [] Plasma 🗵 Whole	Blood 🔲	Urine D Fo	od \square Other	
Test: A Taurine	e D Complete Amir	no Acids 🔲	Other:	A SOURCE AND A STATE OF THE STA	MARIANCESCA.
	its (leb use only)			5x	
Plasme:	Whole Blood:	B6 Urin		Food:	MICHARDON SOM COLOR TO TO THE WAY
	Plasma (nMc	Vml)	Whole	Blood (nMol/n	nf)

	Plasma	(nMol/ml)	Whole Blood (nMol/ml)		
:	Normal Range	No known risk for deficiency	Normal Range	No known risk for deficiency	
Cat	80-120	>40	300-600	>200	
Dog	60-120	>40	200-350	>150	

[&]quot;Please note with the recent increase in the number of dogs screened for taurine deficiency, we are seeing dogs with values within the reference ranges (or above the "no known risk for deficiency range") yet are still exhibiting signs of cardiac disease. Veterinariens are welcome to contact our laboratory for assistance in evaluating your patient's results.



CARDIOLOGY SERVICE UPDATES: DOG FOOD & DILATED CARDIOMYOPATHY

The Cardiology Service has developed this document in response to the alerts from the FDA. These alerts identify an associated risk for some grain-free diets containing certain ingredients (legumes like peas, pea components, lentils; white potatoes, sweet potatoes) and a diagnosis of dilated cardiomyopathy (DCM). The links provided throughout this document can be copied and pasted to obtain additional information.

FDA Alerts found here:

https://www.fda.gov/AnimalVeterinary/NewsEvents/CVMUpdates/ucm613305.htm https://www.fda.gov/AnimalVeterinary/ResourcesforYou/AnimalHealthLiteracy/ucm616279.htm

What is Dilated Cardiomyopathy (DCM)?

DCM is a heart muscle disorder that results in a weak pump function and heart chamber enlargement. In the early stages of this disease pets may appear totally healthy with no apparent clinical signs. Later in the course of this disease, dogs may have a heart murmur, an arrhythmia (irregular heart beat), collapse episodes, weakness or tiredness with exercise, and even trouble breathing from congestive heart failure. While there are some breeds of dogs (like Dobermans) that have a genetic predisposition to development of DCM, there are also nutritional factors that may result in this disease.

What should I do?

If you are feeding a diet of concern based upon the FDA alert we recommend that you consult with your veterinarian or veterinary cardiologist. We provide 4 general points for guidance below:

1. An initial step is to consider whether you are willing or interested in performing additional testing to assess whether your pet is affected with DCM. If you believe your dog is at risk, showing any of the aforementioned clinical signs or would prefer to simply rule out any heart disease, we recommend that you first have your pet's taurine levels tested (both whole blood and plasma levels) as well as seek an echocardiogram by a board-certified veterinary cardiologist. Low taurine levels are associated with development of DCM in dogs and are sometimes a component of this current issue.

Information on taurine testing can be found here: https://www.vetmed.ucdavis.edu/labs/amino-acid-laboratory

2. At this time, diet change is recommended when possible and should be considered regardless of the results obtained from any testing. You can consult with your veterinarian in selecting a new diet that avoids the ingredients of concern listed by the FDA. When selecting this diet, we recommend that you choose a diet that is manufactured with rigorous quality control measures and research behind the formulation. A way to ensure that your diet meets these recommendations is to follow the following guidelines that were generated by a large number of the world's leading experts in veterinary nutrition.

Food selection guidelines found here:

https://www.wsava.org/WSAVA/media/Arpita-and-Emma-editorial/Selecting-the-Best-Food-for-your-Pet.pdf

3. If your pet is identified through testing to have a low blood taurine level or evidence of DCM by echocardiogram, we urge you to report this information to the FDA.

FDA reporting guidelines found here: https://www.fda.gov/Animal/Veterinary/SafetyHealth/ReportaProblem/ucm182403.htm

4. Work with your veterinarian(s) to determine the best course of action and medical treatments if indicated. In the case of a DCM diagnosis, diet change alone may not be sufficient and additional medications may be prescribed.

Please continue to monitor the FDA website and the UC Davis School of Veterinary Medicine Newsfeeds for updates and recommendations regarding this issue.

BERKELBY * DAVIS * IRVINE * LOS ANGELES * MBRCED * RIVERSIDE * SAN DIEGO * SAN PRANCISCO



SANTA BARBARA • 5ANTA CRUZ

STERN CARDIAC GENETICS LABORATORY JOSHUA A. STERN, DVM, PHD, DACVIM (CARDIOLOGY) sterngenetics@ucdavis.edu; August 9, 2018

FREQUENTLY REQUESTED INFORMATION REGARDING TAURINE & DILATED CARDIOMYOPATHY IN GOLDEN RETRIEVERS

Taurine reference ranges for Golden Retrievers: The Stern Lab suggests that the following clinical reference ranges be used for Golden Retrievers and be considered for other known taurine-sensitive breeds such as Newfoundlands or American Cocker Spaniels. This is primarily based on 3 observations:

- 1. Golden Retrievers with marginal taurine levels (defined below) have been diagnosed with dilated cardiomyopathy and have documented disease reversal after taurine supplementation and diet change.
- 2. Previously published work documents taurine sensitivity in Golden Retrievers.
- 3. The most recently published reference on normal blood taurine values shows higher levels than previously reported.
 - o Normal whole blood taurine: >250nmol/mL
 - Normal plasma taurine: >70nmol/mL
 - o Marginal whole blood taurine: 200-250nmol/mL
 - o Marginal plasma taurine: 60-70nmol/mL
 - Low whole Blood taurine; <200nmol/mL
 - Low plasma taurine: <60nmol/mL

References:

Kramer GA, Kittleson MD, Fox PR, Lewis J. Pion PD. Plasma taurine concentrations with normal dogs and in dogs with heart disease. J Vet Intern Med 1995;9:253-258.

Belanger MC, Ouellet M, Queney G, Moreau M. Taurine-deficient dilated cardiomyopathy in a family of golden retrievers. J Am Anim Hosp Assoc 2005;41:284-291.

Kittleson MD, Keene B, Pion PD, Loyer CG, MUST Study Investigators. Results of the multicenter spaniel trial (MUST): taurine- and carnitine-responsive dilated cardiomyopathy in American Cocker Spaniels with decreased plasma taurine concentration. J Vet Intern Med 1197;11:204-211.

Backus RC, Choen G, Pion PD, Good KL, Rogers QR, Fascetti AJ. Taurine deficiency in Newfoundlands fed commercially available complete and balanced diets. J Am Vet Med Assoc 2003;223:1130-1136.

Fascetti AJ, Reed JR, Rogers QR, Backus RC. Taurine deficiency in dogs with dilated cardiomyopathy: 12 cases (1997-2001). J Am Vet Med Assoc 2003;223:1137-1141.

Freeman LM, Michel KE, Brown DJ, Kaplan PM, Stamoulis ME, Rosenthal SL, Keene BW, Rush JB. Idiopathic dilated cardiomyopathy in Dalmatians: nine cases (1990-1995). J Am Vet Med Assoc 1996;209:1592-1596.

Delaney SJ, Kass PH, Rogers QR, Pascetti AJ. Plasma and whole blood taurine in normal dogs of varying size fed commercially prepared food. J Anim Physiol a Anim Nutr 2003;87:236-244.

Plasma vs. whole blood taurine testing:

If at all possible, we recommend that paired (plasma and whole blood) taurine samples be submitted for analysis. A low value on either or both tests is clinically relevant. If your dog is diagnosed with DCM, submitting paired taurine samples (plasma and whole blood) is imperative. We recommend that the UC Davis Amino Acid Laboratory be used for taurine testing, as this is where the literature utilized for our reference ranges was generated. https://www.vetmed.ucdavis.edu/labs/amino-acid-laboratory. If a single test is submitted the Stern Lab recommends that whole blood be submitted preferentially. This is due to the false elevation of taurine levels that is possible in plasma samples due to sample handling issues. This is an area of some debate between clinicians and conflicting information on preference for plasma vs. whole blood exists. This underscores the value of paired sampling.

Page 1 of 3

Clinical Recommendations for Golden Retrievers based on taurine levels:

If taurine levels test <200nmol/mL in whole blood or <60nmol/mL in plasma

- An echocardiogram by a board-certified veterinary cardiologist is indicated
- · After echocardiogram has been completed, a diet change is recommended.
 - If DCM is diagnosed, this patient may need a variety of cardiac medications that would be prescribed by the attending cardiologist.
 - If DCM is diagnosed, prescribed supplementation with oral taurine and l-carnitine is recommended.
 - Reevaluation of taurine levels is warranted after three months of diet change and supplementation.
 - Cardiology reevaluation schedules will be recommended by the attending clinician pending echocardiographic findings.
 - Many Golden Retrievers with taurine-deficient DCM in our study showed slow and steady improvement over a period of 6-12 months.

If taurine levels test 200 - 250nmol/mL in whole blood or 60-70nmol/mL in plasma

- An echocardiogram by a board-certified cardiologist is recommended.
- After echocardiogram has been completed, a diet change is recommended.
- We recognize that many dogs in this category may have normal echocardiograms and thus
 the value of screening should be carefully considered. If the dog is eating a diet that falls
 within the FDA warning or shares features with the diets identified in our study (see diets of
 concern section below), we encourage echocardiographic screening with greater enthusiasm.
- If an echocardiogram is not performed, a diet change is still recommended and a taurine level reevaluation after three months on the new diet should be considered.
- If DCM is diagnosed, this patient may need a variety of cardiac medications that would be prescribed by the attending cardiologist.
 - o If DCM is diagnosed, prescribed supplementation with oral taurine and l-carnitine is recommended.
 - Reevaluation of taurine levels is warranted after three months of diet change and supplementation.
 - Cardiology reevaluation schedules will be recommended by the attending clinician pending echocardiographic findings.
 - Many Golden Retrievers with taurine-deficient DCM in our study showed slow and steady improvement over a period of 6-12 months.

If taurine levels test >250nmol/mL in whole blood or >70nmol/mL in plasma

- Diet change is recommended if you are feeding a diet that falls within the FDA warning or shares features with the diets identified in our study [see diets of concern section below]
- If your pet shows any signs of cardiac disease (trouble breathing, exercise intolerance, fainting/collapse, coughing) we recommend your veterinarian evaluate your pet.

Page 2 of 3

Diets of Concern & Choosing a diet

The FDA alert called attention to several dietary ingredients that should be considered when evaluating whether your pet is at risk (for example legumes like peas and lentils, white or sweet potatoes). These findings were largely recapitulated in our current study of Golden Retrievers with low taurine levels and DCM. Our lab considers these ingredients to be of greatest concern when present within the first 5 listed ingredients on the dog food bag. Additionally, we noted a high percent of diets in our study were using protein sources other than chicken or beef and labeled as grain-free.

Points to consider when making a diet change:

- · Choose a diet that does not contain the concerning components listed above
- Choose a diet that meets the WSAVA Global Nutrition Assessment Guidelines published as consensus by veterinary nutritionists from around the world:
 - o https://www.wsava.org/WSAVA/media/Arpita-and-Emma-editorial/Selecting-the-Best-Food-for-your-Pet.pdf
- FDA alert found here:
 - o https://www.fda.gov/AnimalVeterinary/NewsEvents/CVMUpdates/ucm613305.htm

Choosing a taurine or I-carnitine supplement:

Selecting supplements should be performed based upon those that match their stated contents and are readily available for absorption. Luckily a previous publication tested multiple taurine and l-carnitine supplements. Based upon this publication our laboratory recommends the following supplements as those meeting our quality criteria. (Bragg et al. 2009 J Am Vet Med Assoc; 234(2))

Tested taurine supplements that test within 5% of stated contents and if applicable disintegrated within 30 minutes

- Mega taurine caps by Twinlab (1000 capsule)
- Taurine by Swanson Health Products (500mg capsule)
- Taurine by NOW foods (500mg capsule)
- Taurine 500 by GNC (500mg tablet)

<u>Tested L-carnitine supplements that test within 5% of stated contents and if applicable disintegrated within 30 minutes</u>

- L-carnitine 500 by Jarrow Formulas (500mg capsule)
- L-carnitine caps by Country Life (500mg capsule)
- Maxi L-carnitine by Solgar Vitamin and Herb (500mg tablet)
- L-carnitine by Puritan's Pride (500mg tablet)

The Stern lab does not recommend the empirical supplementation of taurine or 1-carnitine to dogs without evidence of DCM and/or significant deficiency. If DCM is diagnosed we typically recommend dogs over 50lbs receive 1000mg of taurine every 12hrs and dogs under 50lbs receive 500mg of taurine every 12hours. We recommend L-carnitine at a dose of ~50mg/kg orally with food every 8hrs. Your veterinary cardiologist or family veterinarian should be consulted for prescribing the best dose for your dog.

Reporting to the FDA:

Understanding the basis of this condition requires a great deal of research and investigation. Clients with affected dogs can contribute their data to help propel this research forward. You can report cases of taurine deficiency, dilated cardiomyopathy, sudden cardiac death, or any combination of these events to the FDA by following the information found here:

https://www.fda.gov/animalveterinary/safetyhealth/reportaproblem/ucm182403.htm

Additional questions or comments: sterngenetics@ucdavis.edu
This document last updated: Aug. 20, 2018

Page 3 of 3

BERKELBY . DAVIS - INVINE . LOS ANGELES - MÉRCED - RIVERSIDE - SAN DIEGO . SAN FRANCISCO



DAVIS, CALIFORNIA 95616-8734

BANTA BARBARA . SANTA CKUZ

SCHOOL OF VETERINARY MEDICINE
DEPARTMENT OF MEDICINE & BPIDEMIOLOGY
UNIVERSITY OF CALIFORNIA
(330) 752-1363

(530) 752-1363 FAX (530) 752-0414

June 28, 2017

In the wake of many golden retrievers being diagnosed with taurine-deficient DCM, we have started to collect information to better understand the condition and help the golden retriever community. Unfortunately due to concern and panic, many owners have identified concerns and proceeded with supplementation or diet change. This approach has led to more confusion and an inability to definitively say whether some dogs have an inherited cardiomyopathy or a nutritionally derived heart disease. This makes a huge difference in the prognosis and outcome for these dogs and their possible continuation in the breeding pool. Please review the following steps regarding evaluation of taurine-deficient DCM. Our group has put this together to help get to the bottom of this issue as fast and as medically appropriate as possible.

Taurine-deficient Dilated Cardlomyopathy in Golden Retrievers

- 1. If you believe your dog is at risk for taurine deticient DCM and wish to have taurine levels tested please request a whole-blood taurine level be submitted (III in the property of analysis. The laboratory that I recommend can be found here: https://www.vetmed.ucdavjs.edu/labs/amino-acjd-laboratory
- If you believe your dog is showing signs of DCM already please seek an appointment with a board certified cardiologist to have an echocardiogram and taurine testing obtained simultaneously - do not change foods, do not supplement prior to the appointment.
- 3. If you receive taurine test results that come back as low please seek an appointment with a board certified cardiologist to have an echocardiogram performed to determine if your pet needs cardiac medications and the appropriate supplements to be used (DO NOT SUPPLEMENT OR CHANGE FOODS UNTIL YOU HAVE THE CARDIOLOGY EVALUATION COMPLETED). If you live in close to UC Davis, we can arrange research-funded cardiology evaluations for your dog if you contact us via sterngenetics@ucdavis.edu.
- 4. If you receive cardiologist confirmed DCM results, please take an image of the food bag, ingredient list and lot number. Please also request a copy of the images from the echocardiogram from your cardiologist (ensure that you have full DICOM image copies on a CD). Please complete a full diet history form found at this link https://www.vetmed.ucdavis.edu/sites/g/files/dgvnsk491/files/inline-files/Diet_History_Form_FINAL_April2017.doc Please email the image of food bag, a 9-generation pedigree, diet history form, copies of the taurine level results and medical record to sterngenetics@ucdavis.edu. A member of our laboratory team will contact you to discuss our thoughts and possible request additional information, food samples or blood samples for further testing.
- 5. If you have any questions on how to proceed please email Dr. Stern at sterngenetics@ucdavis.edu.

Kind Regards,

Joshua A Stern, DVM, PhD, DACVIM

Joshua Stern, DVM, PhD, Diplomate ACVIM (Cardiology)
Associate Professor of Cardiology
School of Veterinary Medicine, Department of Medicine and Epidemiology,
University of California, 2108 Tupper Hall, 258 CCAH
Davis, CA, 95616.Tel: (530) 752-2475: Email: jstern@ucdavis.edu

		Patie	nt History	Report	, we	· ·
Client: Patient:	B		Phone: Species:		Breed: Retriever	, Golden
	*		Age:	Days	Sex: Female	
Date Type	Staff	History	COLUMN TO A STATE OF THE STATE	:	A A CONTROL OF THE PROPERTY OF	
12/28/2017 L		Chemistry re Laboratory R				Final
	В6	Test ALB = ALKP = ALT = BUN/UREA = CREA = GLU = TP = GLOB = ALB/GLOB =	Result B6	- E 93390	Reference Range 2.3 - 4.0 23 - 212 10 - 125 7 - 27 0.5 - 1.8 74 - 143 5.2 - 8.2 2.5 - 4.5	rinai
		BUN/CREA =		<u>.</u> j		·
12/28/2017 L		Hematology r Laboratory R Test HCT = HGB = MCHC = WBC = LYMPHS =		ID: 295396	Reference Range 37.0 - 55.0 12.0 - 18.0 30.0 - 37.5 5.50 - 16.90 0.50 - 4.90	Final .
		%LYMPHS = MONOS = %MONOS = NEUT =			0.30 ~ 2.00 2.00 - 12.00	

B:Billing, C:Med note, CB:Call back, CK:Check-In, D:Diagnosis, DH:Declined to history, E:Examination, ES:Eatimates, I:Departing instr, L:Lab result, M:Image cases, P:Prescription, PA:PVL Accepted, PB:problems, PP:PVL Performed, PR:PVL Recommended, R:Correspondence, T:Images, TC:Tentative medi note, V:Vital signs

%NEUT = EOS =

%EOS = BASO =

%BASO = PLT =

Retics =

MCV = MCH = RDW = MPV = PDW = PCT =

%Retics =
RBC =

В6

Page 1 of 1

Date: 12/28/2017 9:43 AM

0.10 - 1.49

0.00 - 0.10

10.0 - 110.0

5.50 - 8.50 60.0 - 77.0 18.5 - 30.0 14.7 - 17.9

175 - 500

B4

OFFICIAL CERTIFICATE OF VETERINARY INSPECTION FOR INTRASTATE SALE OF A DOG OR CAT

EXPIRES 30 DAYS FROM DATE OF ISSUANCE

Pursuant to Section 828.29, F.S., Rule 5C-27 and Rule 5C-28, F.A.C.

	Section 828.29, Florida Statutes, provide that each dog or cat offered for sale within the state must be accompanied by a current Official Cartificate of Veterinary Inspection (OCVI), issued by a veterinarial licensed by the state and accredited by the United States Department of Agriculture.					
	SELLE	-		PURCHASER		
	Addre B6	The state and st	Name Auldre	R6		
Contractor and Contractor	City (State B6	City C	DU		

B6

Amino Acid Laboratory Sample Submission Form

Amino Acid Laboratory
1089 Veterinary Medicine Drive

Davis, Ca 95616

Telephone: 530-752-5058, Fax: 530-752-4698

Email: ucd.aminoacid.lab@ucdavis.edu

www.vetmed.ucdavis.edu/labs/amino-acid-laboratory

Veterinarian Contact:	B6		
Clinic/Company Name:		B6	
Address:	B6	<u> </u>	
Email:			
Telephone: B4 , o	wner B6	Fax:	B4
Billing Contact:	}	Email:	B6
Patient Name:	Spe	ecies: <u>Canine</u>	
Breed: Golden Retriever		ner's Name: Nicol	e Ritter and Eric Yard
Current Diet : Fromm Game	Bird Recipe with F	Primal raw topper	and raw goats milk
Sample type: \square Plasma $ ot\boxtimes$	Whole Blood	Urine D Food	Other
Test: 🔯 Taurine 🗖 Complet	e Amino Acids	Other:	
Taurine Results (lab use or	nly)		
Plasma: Whole Bloc		ine:	Food:
~-	C		

	Plasma	(nMol/ml)	Whole Blood (nMol/ml)		
	Normal Range	No known risk for deficiency	Normal Range	No known risk for deficiency	
Cat	80-120	>40	300-600	>200	
Dog	60-120	>40	200-350	>150	

^{*} Please note with the recent increase in the number of dogs screened for taurine deficiency, we are seeing dogs with values within the reference ranges (or above the "no known risk for deficiency range") yet are still exhibiting signs of cardiac disease. Veterinarians are welcome to contact our laboratory for assistance in evaluating your patient's results.

Report Details - EON-	364577				
ICSR:	2054750				
Type Of Submission:	Initial				
Report Version:	FPSR.FDA.PETF.V.V1				
Type Of Report:	Adverse Event (a symptom, reaction or disease associated with the product)				
Reporting Type:	Voluntary				
Report Submission Date:	2018-09-07 17:16:09 EDT				
Reported Problem:	Problem Description:	Not true DCM but re	duced contractility B6 taurine (whole blood)		
	Date Problem Started:	09/05/2018			
	Concurrent Medical Problem:	No			
	Outcome to Date:	Stable			
Product Information:	Product Name:	Ziwi Peak (recently s	started)		
	Product Type:	-			
	Lot Number:				
	Package Type:	BAG			
	Product Use Information:				
	Manufacturer /Distributor Information:				
	Purchase Location Information:				
	Product Name:	Honest Kitchen Who	le Grain Turkey, Beef, or CHicken		
	Product Type:	Pet Food			
	Lot Number:				
	Package Type:	BAG			
	Product Use Information:				
	Manufacturer /Distributor Information:				
	Purchase Location Information:				
Animal Information:	Name:	В6			
	Type Of Species:	ļ			
	2	Retriever - Golden			
	Gender:	ļ			
	Reproductive Status:	3			
	-5 \$4444044444444444444444444444444444444	31.5 Kilogram			
		B6 Years			
	Assessment of Prior Health:	1417			
	Number of Animals Reacted:	1			
	Owner Information:	Owner Information provided:	Yes		
		Contact:	Name: B6		
			Phone: B6		
		Address:	B6		
			United States		

Information: Contact Name: Liss Freeman Phone: (508) 887-4523 Email: lisa. freeman@tufts.edu		lealthcare Professional	Practice Name:	Tufts Cummina	s School of Veterinary Medicine		
Phone: (508) 887-4523 Email: itsa.freeman@tufts.edu		Information:					
Address: Contact Permission to Contact Sender:							
Address: 200 Westboro Rd North Grafton Massachusetts O1536 United States Practice Name: Tufts Cummings School of Veterinary Medicine Contact: Name: B6 Phone: B5 Permission to Release Records to FDA: Pes Release Records to F							
Contact Name: B6 Phone: B6			Address:	Address: 200 Westboro Rd North Grafton Massachusetts 01536			
Contact: Name: B6 Phone: Phone: B6 Phone:			Practice Name:	Tufts Cumming	s School of Veterinary Medicine		
Permission to Release Records to FDA:				Name:	B6		
Address: 200 Westboro Rd North Grafton Massachusetts 01536 United States			Release Records				
North Grafton Massachusetts 01536 United States Contact: Permission To Contact Sender: Preferred Method Of Contact Contact: Permission To Contact Sender: Preferred Method Of Contact Contact: Preferred Method Of Contact Sender: Preferred Method Of Contact: Attachment: Cardio discharge 9-5-18.pdf Description: Cardio discharge Type: Medical Records Attachment: L4.pdf Description: T4 Type: Laboratory Report Attachment: rdvm records.pdf Description: RDVM records Type: Medical Records Attachment: Cardio report 9-5-18.pdf Description: Cardio report 9-5-18.pdf Description: Cardio report 9-5-18.pdf	Sender Information: N	ame:	Lisa Freeman				
Email: lisa.freeman@tufts.edu		Address:	North Grafton Massachusetts 01536 United States				
Permission To Contact Sender: Preferred Method Of Contact: Additional Documents: Attachment: cardio discharge 9-5-18.pdf Description: Cardio discharge Type: Medical Records Attachment: t4.pdf Description: T4 Type: Laboratory Report Attachment: rdvm records.pdf Description: RDVM records Type: Medical Records Attachment: cardio report 9-5-18.pdf Description: Cardio report 9-5-18.pdf		Contact:	Phone:	5088874523			
Sender: Preferred Method Of Contact: Additional Documents: Attachment: cardio discharge 9-5-18.pdf Description: Cardio discharge Type: Medical Records Attachment: t4.pdf Description: T4 Type: Laboratory Report Attachment: rdvm records.pdf Description: RDVM records Type: Medical Records Attachment: cardio report 9-5-18.pdf Description: Cardio report			Email:	lisa.freeman@t	ufts.edu		
Additional Documents: Attachment:			Yes				
Attachment: cardio discharge 9-5-18.pdf Description: Cardio discharge Type: Medical Records Attachment: t4.pdf Description: T4 Type: Laboratory Report Attachment: rdvm records.pdf Description: RDVM records Type: Medical Records Attachment: cardio report 9-5-18.pdf Description: Cardio report			Email				
Description: Cardio discharge Type: Medical Records Attachment: t4.pdf Description: T4 Type: Laboratory Report Attachment: rdvm records.pdf Description: RDVM records Type: Medical Records Attachment: cardio report 9-5-18.pdf Description: Cardio report	Additional Documents:						
Attachment: t4.pdf Description: T4 Type: Laboratory Report Attachment: rdvm records.pdf Description: RDVM records Type: Medical Records Attachment: cardio report 9-5-18.pdf Description: Cardio report	Δ	Attachment:	cardio discharge 9-5	-18.pdf			
Attachment: t4.pdf Description: T4 Type: Laboratory Report Attachment: rdvm records.pdf Description: RDVM records Type: Medical Records Attachment: cardio report 9-5-18.pdf Description: Cardio report		Description:	Cardio discharge				
Description: T4 Type: Laboratory Report Attachment: rdvm records.pdf Description: RDVM records Type: Medical Records Attachment: cardio report 9-5-18.pdf Description: Cardio report		Туре:	Medical Records				
Description: T4 Type: Laboratory Report Attachment: rdvm records.pdf Description: RDVM records Type: Medical Records Attachment: cardio report 9-5-18.pdf Description: Cardio report	Δ	Attachment:	t4.pdf				
Type: Laboratory Report Attachment: rdvm records.pdf Description: RDVM records Type: Medical Records Attachment: cardio report 9-5-18.pdf Description: Cardio report							
Attachment: rdvm records.pdf Description: RDVM records Type: Medical Records Attachment: cardio report 9-5-18.pdf Description: Cardio report							
Description: RDVM records Type: Medical Records Attachment: cardio report 9-5-18.pdf Description: Cardio report							
Type: Medical Records Attachment: cardio report 9-5-18.pdf Description: Cardio report							
Attachment: cardio report 9-5-18.pdf Description: Cardio report		-					
Description: Cardio report				I£			
	Δ			pul			
		LIGGCRIDTION'					

Cummings Veterinary Medical Center

Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://vetmed.tufts.edu/

Discharge Instructions

Patient	Owner		
Name B6	Name	B6	Patient ID: 426744
Species: Canine	Address:	B6	_
Gold Male (Neutered) Golden Retriever	į	DU	<u>j</u>
Birthdate: B6			
Attending Cardiologist: John E. Rush DVM, MS, DACVIM (C	Cardiology), D	ACVECC	
B6			
Cardiology Resident:			
i	36	i	
Cardiology Technician:			
B6			
<u> </u>	!		
Date: B6			
Diagnoses:			
Mild reduced contractile function, normal of	ardiac size		
Mild reduced contractile function, normal of Low blood faurine levels	ardiac size		
Low blood taurine levels			
Low blood taurine levels Clinical Findings: Thank you for bringing	B6 infor	evaluation of his heart. His	s heart is normal in size, but his
Low blood taurine levels Clinical Findings: Thank you for bringing contractile function is not quite as vigorous	B6 infor	s. This could be a variation	of normal for him, but it is also possible
Low blood taurine levels Clinical Findings: Thank you for bringing contractile function is not quite as vigorous that it could be related to low taurine. We leave the could be related to low taurine.	B6 in for as some dog have submitt	s. This could be a variation ed an NTproBNP test to ga	of normal for him, but it is also possible other more information about B6
Low blood taurine levels Clinical Findings: Thank you for bringing contractile function is not quite as vigorous that it could be related to low taurine. We like the atthempt to the level of the leve	B6 in for as some dog have submitt to assess	s. This could be a variation ed an NTproBNP test to ga	of normal for him, but it is also possible other more information about B6
Low blood taurine levels Clinical Findings: Thank you for bringing contractile function is not quite as vigorous that it could be related to low taurine. We leave the could be related to low taurine.	B6 in for as some dog have submitt to assess	s. This could be a variation ed an NTproBNP test to ga	of normal for him, but it is also possible other more information about B6
Low blood taurine levels Clinical Findings: Thank you for bringing contractile function is not quite as vigorous that it could be related to low taurine. We leart health. We also submitted a total T4 twith these results within the next few days.	B6 in for as some dog have submitt to assess	s. This could be a variation ed an MiproBNP test to ga B6 thyroid on his curr	of normal for him, but it is also possible ther more information about B6 ent level of medication. We will call you
Low blood taurine levels Clinical Findings: Thank you for bringing contractile function is not quite as vigorous that it could be related to low taurine. We like the atthempt to the level of the leve	B6 in for as some dog have submitt to assess	s. This could be a variation ed an MiproBNP test to ga B6 thyroid on his curr	of normal for him, but it is also possible ther more information about B6 ent level of medication. We will call you
Low blood taurine levels Clinical Findings: Thank you for bringing contractile function is not quite as vigorous that it could be related to low taurine. We leart health. We also submitted a total T4 twith these results within the next few days. Monitoring at Home: Please watch for any	B6 in for as some dog have submitt to assess exercise into	s. This could be a variation ed an NTproBNP test to ga B6 thyroid on his cum olerance, weakness, or coll	of normal for him, but it is also possible ther more information about B6 ent level of medication. We will call you apse.
Low blood taurine levels Clinical Findings: Thank you for bringing contractile function is not quite as vigorous that it could be related to low taurine. We leart health. We also submitted a total T4 twith these results within the next few days. Monitoring at Home: Please watch for any Diet Suggestions: We recommend a change	B6 in for as some dog have submitt to assess exercise into	s. This could be a variation ed an NTproBNP test to ga B6 thyroid on his cum plerance, weakness, or coll diet. If you would like to	of normal for him, but it is also possible ther more information about B6 ent level of medication. We will call you apse. pursue a mix of home cooking and new
Low blood taurine levels Clinical Findings: Thank you for bringing contractile function is not quite as vigorous that it could be related to low taurine. We leart health. We also submitted a total T4 twith these results within the next few days. Monitoring at Home: Please watch for any	B6 in for as sume dog have submitte to assess exercise into e in B6 on consultation	s. This could be a variation ed an NTproBNP test to ga B6 thyroid on his curr olerance, wealeness, or coll diet. If you would like to on with Dr Lisa Freeman. If	of normal for him, but it is also possible ther more information about B6 ent level of medication. We will call you apse. pursue a mix of home cooking and new
Clinical Findings: Thank you for bringing contractile function is not quite as vigorous that it could be related to low taurine. We like the later the later. We also submitted a total T4-1 with these results within the next few days. Monitoring at Home: Please watch for any Diet Suggestions: We recommend a change kibble we recommend scheduling a Nutritic cooked diet then please schedule an appoint	B6 in for sas sume dog have submitte to assess vecencise into the consultation to the	s. This could be a variation ed an NTproBNP test to ga B6 thyroid on his curro blerance, weakness, or coll diet. If you would like to on with Dr Lisa Freeman. If	of normal for him, but it is also possible ther more information about B6 ent level of medication. We will call you apse. pursue a mix of home cooking and new
Clinical Findings: Thank you for bringing contractile function is not quite as vigorous that it could be related to low taurine. We like at health. We also submitted a total T4 twith these results within the next few days. Monitoring at Home: Please watch for any liest Suggestions: We recommend a change kibble we recommend scheduling a Nutrition.	B6 in for sas sume dog have submitte to assess vecencise into the consultation of the	s. This could be a variation ed an NTproBNP test to ga B6 thyroid on his curro blerance, weakness, or coll diet. If you would like to on with Dr Lisa Freeman. If	of normal for him, but it is also possible ther more information about B6 ent level of medication. We will call you apse. pursue a mix of home cooking and new
Clinical Findings: Thank you for bringing contractile function is not quite as vigorous that it could be related to low taurine. We like at health. We also submitted a total T4 twith these results within the next few days. Monitoring at Home: Please watch for any Diet Suggestions: We recommend a change kibble we recommend scheduling a Nutritic cooked diet then please schedule an appoint	B6 in for sas sume dog have submitte to assess vecencise into the consultation of the	s. This could be a variation ed an NTproBNP test to ga B6 thyroid on his curro blerance, weakness, or coll diet. If you would like to on with Dr Lisa Freeman. If	of normal for him, but it is also possible ther more information about B6 ent level of medication. We will call you apse. pursue a mix of home cooking and new
Clinical Findings: Thank you for bringing contractile function is not quite as vigorous that it could be related to low taurine. We like the left health. We also submitted a total T4 to with these results within the next few days. Monitoring at Home: Please watch for any Diet Suggestions: We recommend a change kibble we recommend scheduling a Nutritic cooked diet then please schedule an appoint Exercise Recommendations: B6 can Recommended Medications:	B6 in for sas sume dog have submitte to assess vecencise into the consultation of the	s. This could be a variation ed an NTproBNP test to ga B6 thyroid on his curro blerance, weakness, or coll diet. If you would like to on with Dr Lisa Freeman. If	of normal for him, but it is also possible ther more information about B6 ent level of medication. We will call you apse. pursue a mix of home cooking and new
Clinical Findings: Thank you for bringing contractile function is not quite as vigorous that it could be related to low taurine. We like the left health. We also submitted a total T4 to with these results within the next few days. Monitoring at Home: Please watch for any Diet Suggestions: We recommend a change kibble we recommend scheduling a Nutritic cooked diet then please schedule an appoint Exercise Recommendations: B6 can Recommended Medications:	B6 in for sas sume dog have submitte to assess vecencise into the consultation of the	s. This could be a variation ed an NTproBNP test to ga B6 thyroid on his curro blerance, weakness, or coll diet. If you would like to on with Dr Lisa Freeman. If	of normal for him, but it is also possible ther more information about B6 ent level of medication. We will call you apse. pursue a mix of home cooking and new
Clinical Findings: Thank you for bringing contractile function is not quite as vigorous that it could be related to low taurine. We like at health. We also submitted a total T4 twith these results within the next few days. Monitoring at Home: Please watch for any Diet Suggestions: We recommend a change kibble we recommend scheduling a Nutritic cooked diet then please schedule an appoint	B6 in for sas sume dog have submitte to assess vecencise into the consultation of the	s. This could be a variation ed an NTproBNP test to ga B6 thyroid on his curro blerance, weakness, or coll diet. If you would like to on with Dr Lisa Freeman. If	of normal for him, but it is also possible ther more information about B6 ent level of medication. We will call you apse. pursue a mix of home cooking and new
Clinical Findings: Thank you for bringing contractile function is not quite as vigorous that it could be related to low taurine. We like the least health. We also submitted a total T4 to with these results within the next few days. Monitoring at Home: Please watch for any liet Suggestions: We recommend a change kibble we recommend scheduling a Nutritic cooked diet then please schedule an appoint the least schedule and provide the least schedule and provide the least schedule and lea	B6 in for sas some dog have submitte to assess vereise into a B6 on consultation timent with have normal	s. This could be a variation ed an NTproBNP test to ga B6 thyroid on his curro olerance, weakness, or coll diet. If you would like to on with Dr Lisa Freeman. If B6	of normal for him, but it is also possible other more information about B6 ent level of medication. We will call you apse. pursue a mix of home cooking and new you would like to feed primarily home
Clinical Findings: Thank you for bringing contractile function is not quite as vigorous that it could be related to low taurine. We like the left health. We also submitted a total T4 to with these results within the next few days. Monitoring at Home: Please watch for any Diet Suggestions: We recommend a change liable we recommend scheduling a Nutritic cooked diet then please schedule an appoint Exercise Recommendations: B6 can Recommended Medications:	B6 in for sas some dog have submitte to assess vereise into a B6 on consultation timent with have normal	s. This could be a variation ed an NTproBNP test to ga B6 thyroid on his curro olerance, weakness, or coll diet. If you would like to on with Dr Lisa Freeman. If B6	of normal for him, but it is also possible other more information about B6 ent level of medication. We will call you apse. pursue a mix of home cooking and new you would like to feed primarily home
Clinical Findings: Thank you for bringing contractile function is not quite as vigorous that it could be related to low taurine. We like the least health. We also submitted a total T4 to with these results within the next few days. Monitoring at Home: Please watch for any liet Suggestions: We recommend a change kibble we recommend scheduling a Nutritic cooked diet then please schedule an appoint the least schedule and provide the least schedule and provide the least schedule and lea	B6 in for sas some dog have submitte to assess vereise into a B6 on consultation timent with have normal	s. This could be a variation ed an NTproBNP test to ga B6 thyroid on his curro olerance, weakness, or coll diet. If you would like to on with Dr Lisa Freeman. If B6	of normal for him, but it is also possible other more information about B6 ent level of medication. We will call you apse. pursue a mix of home cooking and new you would like to feed primarily home
Clinical Findings: Thank you for bringing contractile function is not quite as vigorous that it could be related to low taurine. We like the left health. We also submitted a total T4 to with these results within the next few days. Monitoring at Home: Please watch for any Diet Suggestions: We recommend a change liable we recommend scheduling a Nutritic cooked diet then please schedule an appoint Exercise Recommendations: B6 can Recommended Medications:	B6 in for sas some dog have submitte to assess vecencise into a consultation to make normal chav	s. This could be a variation ed an NiproBNP test to ga B6 thyroid on his curre plerance, weakness, or coll diet. If you would like to on with Dr Lisa Freeman. If B6 exercise.	of normal for him, but it is also possible of normal for him, but it is also possible of their more information about 86 ent level of medication. We will call you apse. Spursue a mix of home cooking and new you would like to feed primarily home

(508)-887-4696 or email us at cardiovet@tufts.edu for scheduling and non-emergent questions or concerns.

Please visit our HeartSmart website for more informat	jan
http://wet.tufts.edu/heartsmart/	

Prescription Refil Dischiner:

For the safety and well-being of our patients, your pet must have had an examination by one of our veterinarians within the past year in order to obtain prescription medications.

Ordering Food:

Please check with your primary veterinarian to purchase the recommended diet(s). If you wish to purchase your food from us, please call 7-10 days in advance (508-887-4629) to ensure the food is in stock. Alternatively, veterinary diets can be ordered from online retailers with a prescription/veterinary approval.

Clinical Triols:

Clinical trials are studies in which our veterinary doctors work with you and your pet to investigate a specific disease process or a promising new test or treatment. Please see our website: vet.tufts.edu/cvmc/dinical-studies

,			
Case: B6	Owner: B6	Discharge Instructions	

Cummings Veterinary Medical Center

Cardiology Liaison: 508-887-4696

B6

Patient ID: 426744

Canine

B6 Years Old Male (Neutered) Golden Retriever Gold

Cardiology Appointment Report

Date: 9/5/2018
Attending Cardiologist: John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC B6
Cardiology Resident:
B6
Cardiology Technician: B6
<u>Presenting Complaint</u> : Low taurine level $\frac{B6}{B6}$. On facebook page with UC Davis. Dr Stern recommended getting an echo. Tested positive for $B6$ but is not symptomatic. Has been treated in the past. Has noticed in the last year that he gets out of the pool sooner than usual. Slowing down on hikes, but no breathing difficulties or coughing. May breathe faster than other dog ($\frac{B6}{B6}$ bpm). Owner sent out whole blood taurine test after reading about low taurine on line.
Concurrent Diseases: B6
B6
General Medical History: Is on B6 prevention every 6 weeks to 2 months B6 Diet and Supplements: ZiwePeak grain free, air dried; home cooked. Switched to honest kitchen about 3 years ago. Bravo canned rotates food, got treats will grains. Sardines.
Cardiovascular History: Prior CHF diagnosis? no Prior heart murmur? no Prior ATE? no Prior arrhythmia? no Monitoring respiratory rate and effort at home? no Cough? after swimming

Sudden onset lameness? no Exercise intolerance? starting last year started leaving the pool sooner, coughs to clear throat **Current Medications Pertinent to CV System:** Medication: **B6** Formulation/Tab Size: **B6** Administration Frequency: Need refills? Medication: Formulation/Tab Size: B6 Administration Frequency: Give 1 Tablet Twice a day Need refills? Medication: **B6** Formulation/Tab Size: В6 Administration Frequency: Need refills? Cardiac Physical Examination: Muscle condition: Normal Moderate cachecia Mildmuscleloss Marked cachesia Cardiovascular Physical Exam: Murmur Grade: Mone ■ I/VI **■** v/vi Jugular vein: Markettan 1/3 of the neck 1/2 way up the neck Middle 1/3 of the neck Top 2/3 of the neck Arterial pulses: Weak Bounding Fair Pulse deficits Good Pulsus paradosus Other: Strong Arrhythmia: Mone. Bradycardia Sinus arrhythmia Tachycardia Premature beats

Shortness of breath or difficulty breathing? no

Syncope or collapse? no

Gallop: ☐ Yes ☑ No ☐ Intermittent	Pronounced Other:
Pulmonary assessments: Eupneic Mild dyspnea Marked dyspnea Normal BV sounds	Pulmonary crackles Wheezes Upper airway stridor
Abdominal exam: Normal Hepatomegaly Abdominal distension	Mild ascites Marked ascites
<u>Problems</u> : Low whole blood taurine, on grain free diet	
Diagnostic plan: Echocardiogram Chemistry profile ECG Renal profile Blood pressure Echocardiogram Findings:	☐ Dialysis profile ☐ Thoracic radiographs ☐ NT-proBNP ☐ Troponin ☐ Other tests:
	B6
Mitral inflow: ☐ Summated ☑ Normal ☐ Delayed relaxation	Pseudonormal Restrictive
ECG findings: B6	
Assessment and recommendations: Echocardiogram reveals mildly reduced contrawall thinning. It is possible that these mild cha	— (

Final Diagnosis:

Mildly reduced LV contractile function

IVSd IVIDd IVPWd IVSs IVIDs IVPWs %FS Ao Diam IA Diam IA/Ao Max IA M-Mode Normalized IVSdN IVIDdN IVPWdN IVSsN IVIDsN IVPWsN Ao Diam N IA Diam N IA Diam N	Cm cm cm cm cm cm cm cm cm cm cm cm cm cm
<u>2D</u> SA LA Ao Diam SA LA / Ao Diam IVSd LVIDd	B6 cm

	[
LVPWd		cm
EDV(Teich)		ml
I V Ss		cm
LVIDs		cm
LVPWs		cm
ESV(Teich)		ml
EF(Teich)		%
%FS		%
SV(Teich)		ml
LVId A2C		cm
LVEDV MOD A2C		ml
LVIs A2C		cm
LVESV MOD A2C		mi
LVEF MOD A2C		%
SV MOD A2C	B6	ml
LVId LAX		cm
LVAd LAX		cm
LVEDV A-L LAX		ml
LVEDV MOD LAX		ml
LVLs LAX		cm
LVAslax		cm
LVESV A-L LAX		ml
LVESV MOD LAX		ml
HR		BPM
EF A-L LAX		%
LVEF MOD LAX		%
SV A-L IAX		ml
SV MOD LAX		ml
CO A-L IAX		l/min
CO MOD IAX		l/min
		•
<u>Doppler</u>		
MV E Vel		m/s
MV DecT		ms
MV A Vel		m/s
MV E/A Ratio		, 2
E'		m/s
Α'		
	DC	m/s
E/E'	B6	
PV Vmax		m/s
PV maxPG		mmHg
AV Vmax		m/s
AV maxPG		mmHg
TR Vmax		m/s
TR maxPG		mmHg
	to a construction of the c	

Client:		Patie	Patient:	В6	·····	
Phone:	R	6	2	Canine	Breed:	Golden Retriever
Address:	D	U	Age: Color:		Sex:	M/Neutered
i		-		LIP CAPE		
Date Type	Staff	History				
B6 TC Slept Initiated Call / C B6 tauring level ommend? B6	012 ontact was low and					unts to see cardiologis E-mail t. is there someone AS wor
A. 27 A MINISTER	her B6 re	commends!		В6		B6 to see fifthey car
dicine). Client ha <u>s an .</u> 36 - jin earlier. [B6	a ppointme r	tat <mark>. B6 f</mark> ort	reir earliest availabl	e (mid October), so v	ill call to see if	B6 to see fifthey car
		_		_		
			B			
		-				
8/21/2018 C	012	Office Visit - Cl level	OSED 08/29/20	18 - Blood draw-	-> owner to	send to UC for taurine
		Blood draw for taurine li				
ason For Visit			∍w⊋l			
scussion Items:					an _a	. n. lann luin ninnii on la annaan seosen lank sa
scussion Items:			en top tube. Owner	to send to UC lab her	self for Sent h	ome styrofoam container al
scussion (tems: iter Item Discussed	mmended	Blood draw, put into gre	en top tube. Owner	to send to UC lab her	self for Sent h	ome styrofoam container ar
scussion Items: iter Item Discussed	mme nded	Blood draw, put into gre packs since lives 30 min	en top tube. Owner	to send to UC lab her	self for Sent h	ome styrofoam container au
scussion (tems: iter Item Discussed	mmended 0.88	Blood draw, put into gre packs since lives 30 mil None	en top tube. Owner		self for. Sent h	ome styrofoam container ar
sason For Visit scussion Items: hter Item Discussed bllow Up needed / reco		Blood draw, put into gre packs since lives 30 mil None	en top tube. Owner ns away. 8 09:14 AM S		self for. Sent h	ome styrofoam container au
scussion items: hter Item Discussed allow Up needed / reod		Blood draw, put into gre packs since lives 30 min None Aug 21, 201	en toptube. Owner as away. 8 09:14 AM S : 72.	taff: 088	self for. Sent h	ome styrofoam container au
scussion Items: iter Item Discussed sllow Up needed / reco 8/21/2018 V 8/21/2018 CK illing, Cittled note, CB:Ca sparting instr. L'Lab result	0 88 0 Il back, CK:C	Blood draw, put into gre packs since lives 30 min None Aug 21, 201 Weight	en top tube . Owner is away. 8 09:14 AM S : 72. FD - AD	taff: 088 2 pounds	ination, ES:Estima	1 16 %.

			Pa	tient History	Report		
Client Phone Address		В	6	Patient: Species: Age: Color:	B6	Breed: Golden Retriever Sex: M/Neutered	
Date	Type	Staff	History				
8/21/2018	8	012	Date Patient	Visit: TECH APP 01 Checked Out: 08/ Draw/Pack-Dodds/1	21/18 Practice 1	74) by 022	
8/7/2018	С	081	Phone & Otl		SED 08/17/2018 -	Wanting to schedule blood draw	/ to
Client Initiate Ct would like to wants to join wo going to email u	schedule	a. blood draw	MVC Initiated so that she can ge way sent to them an B6! to see best way	t of's taurine levels che	LMOM. Cked B6 ;	n Person E-mail Ct says the study for golden retrievers the a special blood tu be(ct says green top	iat sh i) Cti
				ndle the shipping of the	,		
5:20 ok per B6 J	lo schedu	le with a tech	, ct will wait till the	blood tubes come in an		dule, ct would prefer a morning appt so th	nat sł
8/11/18 ct called			nent to send the blo ech - ipe i	::CG; <u>B6</u> ;			
THE LAST SEE SEEDINGS	a sale and a south	z ca cappar ir iti i	(DO)				
				B	6		
B:Billing; C:Med no	ote, CB:Cal	l back, CK:Che	ck-ini, OM:Communica	tions, D:Diagnosis, DH:De-	lined to history. E.Exam	ination, ES: Estimates	
f Departing instr. L	Lab result.	Milmage cases		VL Accepted, PB:problems			
	В6			Page 2 of 33	Da	ite: 8/30/2018 3:19 PM	

_____B6

Client Phone Address	r:	B	6	Patient: B6 Species: Cardine Age: B6 Color: Buff	Breed:	Golden Retriever M/Neutered
Date	Туре	Staff	History			
				B6		

Page 3 of 33 Date: 8/30/2018 3:19 PM

В6

Client: Phone: Address:	B	6	Patient: B6 Species: Canine Age: B6 Color: Buff	Golden Retriever M/Neutered
Date Type	Staff	History		
			B6	

Page 4 of 33

FDA-CVM-FOIA-2019-1704-008601

Date: 8/30/2018 3:19 PM

Client Phone Address	:	B	6	Patient: B6 Species: Canine Age: B6 Color: Buff	Golden Retriever M/Neutered
Date	Туре	Staff	History		
				DC	
				B6	

Page 5 of 33

В6

FDA-CVM-FOIA-2019-1704-008602

Date: 8/30/2018 3:19 PM

В6

Patient History Report								
Client: Phone: Address:	B	3	Patient: [Species: _ Age: [Color:	В6		Golden Retriever M/Neutered		
		71						
Date Type	Staff	History						
:Billing, C:Med nots, CB:Ca Departing instructure treater	II back, CK:Chec, M:Image cases	k-in, CM:Communic , P:Piscription, PA	Cations, D:Diagnosis, DH: Deci PVI	ined to history. E Exam	ination, ES:Estinia 3:PVL Recommen	Nes.		

Page 6 of 33

FDA-CVM-FOIA-2019-1704-008603

Date: 8/30/2018 3:19 PM

_____B6

Client: Phone: ddress:	В	6	Patient: Species: Age: Color:	B6		Golden Retriever M/Neutered
Date Type	e Staff	History				
				B6		
				D	J	

Page 7 of 33 Date: 8/30/2018 3:19 PM

В6

Att		1 4411	ent History Report	 -
Client: Phone: Address:	В	6	Patient: B6 Species: Canine Age: B6 Color: Buff	Breed: Golden Retriever Sex: M/Neutered
Date Type	Staff	History		
			B	6

Page 8 of 33

Date: 8/30/2018 3:19 PM

В6

Client: Phone: ddress:	B	6	Patient: B6 Species: Canine Age: B6 Color: Buff	Golden Retriever M/Neutered
Date Type	Staff	History		
			B6	
			DU	

Page 9 of 33

Date: 8/30/2018 3:19 PM

Patient History Report									
Client: Phone: ddress:	B	6	Patient: Species: Age: Color:	B6		Golden Retriever M/Neutered			
Date Type	Staff	History							
			B	6					

Page 10 of 33 Date: 8/30/2018 3:19 PM

B6

Client: Phone: Address:	B	6	Patient: B6 Species: Canine Age: B6 Color: Buff	Golden Retriever M/Neutered
Date Type	Staff	History		
			DC	
			B6	

Page 11 of 33

FDA-CVM-FOIA-2019-1704-008608

Client: Phone: Address:		В	_	ient History Patient: Species: Age: Color:	B6 Canine B6	Golden Retriever M/Neutered
Date	Туре	Staff	History			
					_	
				B	6	

Page 12 of 33

Date: 8/30/2018 3:19 PM

		Pati	ent History Report	
Client: Phone: Address:	B	6	Patient: B6 Species: Canine Age: B6 Color: Buff	Golden Retriever M/Neutered
Date Type	Staff	History		
			DC	
			B6	

Page 13 of 33

Date: 8/30/2018 3:19 PM

,		rati	ent History		
Client: Phone: Address:	B	6	Patient: Species: Age: Color:	B6	Golden Retriever M/Neutered
Date Type	Staff	History			
			B	6	

Page 14 of 33

		Pati	ent History	Report		
Client: Phone: Address:	В		Patient: Species:	B6 Canine B6		Golden Retriever M/Neutered
Date Type	Staff	History				
				D C		
				Be		
			B	S		
lient Initiated Call/	Contact	MVC Initiated Ca	II / Contact		n Person	E-mail
ing, C:Med note, CB:C arting instr. L:Lab resu	all back, CK:Che t, M:Intage case	ck-in, CM:Communicatio	ns, D:Diagnosis, DH:De	one says about 1 oz in a clined to history. E.Examina s, PP:PVL Performed, PR:/	ation, ES:Estima	g.Notse≋ntto <mark>! B6</mark> tes. ded.
B6			Page 15 of 33	Dati	≥: 8/30/201:	3 1 9 PM

		Pat	tient History			
Client: Phone: Address:	B	i i	Patient:	B6 Canine B6		Golden Retriever M/Neutered
Date Type	Staff	History				
			B	2		
			D			
anting in str. L.Labre sul	t, M:Image case:	s, P:Prescription, PA:P	tions, D:Diagnosis, DH:De VL Accepted, PB:problem	clined to history. E.Exam s, PP:PVL Performed. PI	ination, ES:Estima 3:PVL Recommen	ites. ded,
respondence, T:Image B6	s,TO:Tenlative	medinote, V:Vitalisign	Page 16 of 33		ite: 8/30/201	

Client:			Patient:	B6		
Phone:		C	Species: (Breed	Golden Retriever
Address:	B	ם	Species: C Age:	B6 ;		M/Neutered
			Color: B	uff	Son.	
Date Type	Staff	History				
			B	3		
				J		

Page 17 of 33

B6

Client: Phone: Address:	В		ent History Patient: Species: Age: Color:	B6 Canine B6	Breed: Golden Retriever Sex: M/Neutered
Date Type	Staff	History			
			B	6	
ling, C:NMed note, CB:Ca artino instr. Flah need	II back, OK;Che	ck-in, CM:Communicatio s P:Piescription PA.PM	rs, D:Diagnosis, DH:De Accepted, PR nmh km	clined to history. E.Exam s, PP.PVL Performed. PF	nation, ES:Estimates, t:PVL Recommended

Page 18 of 33

Date: 8/30/2018 3:19 PM

		Patio	ent History	Report		
Client: Phone: Address:	B 6		Patient: Species: Age: Color:	Canine B6		Golden Retriever M/Neutered
Date Type	Staff	History				
			B			
				J		
B:Billing, C:Med note, CB:C	all back, CK:Check	in, CM:Communication	ns, D:Diagnosis, DH:Dei	alined to history. E. Exami	nation, ES Estima	
B:Billing, C:Med note, CB:C Departing instr. L:Lab resu R:Correspondence, T:Image	It. M:Image cases, f es, TO:Tentative me	Prescription, PAPVL dl note, V:Vital signs	Accepted, PB problems	s, PP:PVL Performed: PR	:PVL Recommer	ded.

Page 19 of 33

Date: 8/30/2018 3:19 PM

В6

B6

B6	Client: Phone: Address:	B		ent History Patient: Species: Age: Color:	B6 Canine B6	Golden Retriever M/Neutered
B6	Date Type	Staff	History			
				B	6	

Page 20 of 33

Client: Phone: Address:	B		ient History Report Patient: B Species: Canine Age: B6 Color: Buff	Breed: Golden Retriever Sex: M/Neutered
Date Type	Staff	History		
			B6	

		Pati	ent History	Report		
Client: Phone: Address:	B		Patient: Species: Age: Color:	B6 Canine B6	Breed: Golden Retried Sex: M/Neutered	/er
Date Type	Staff	History				
			B	0		
rting instr. L.Lab re su	t. M:Image case:	s, P:Prescription, PA:PV	ors, D:Diàgnosis, DH:Dec L'Accepted, PB:problems	lined to history, E.Exar , PP:PVL Performed, I	nination/ES:Estimates. PR:PVL Recommended,	
B6	s, IU:Temane	medinote, V:Vitalsigns	Page 22 of 33		ate: 8/30/2018 3:19 PM	

,		Path	ent History Report	
Client: Phone: Address:	B	6	Patient: B6 Species: Canine Age: B6 Color: Buff	Golden Retriever M/Neutered
Date Type	Staff	History		
			B6	

B6 Page 23 of 33 Date: 8/30/2018 3:19 PM

B6 Species: Canine Age: B5 Sex: Mi.Neutered		·		Pat	ient History		
	Phone:		B	3	Species: Age:	Canine B6	
B6	Date T	уре	Staff	History			
B6							
B6							
B6						_	
					B	6	

Page 24 of 33

Date: 8/30/2018 3:19 PM

		Pat	lent History	neport		
Client:	D		Patient:	B6	Paragraph Propriate Company	
Phone: Address:	B		Species: Age:	Canine B6	Breed: Golden Retrieve Sex: M/Neutered	ľ
			Color:		, ज्यान्यवाचार्यः । १८८ ११ विशेष्यः विशेषिकः विशेषः विशेषः । ।	
Date Type	Staff	History				
				_		
			B			
Hing, C:Meid note, CB:C	all back, CK:Chec	:k-in, CM:Communicat	ions, D:Diagnosis, DH:Decli	ined to history, E.Examina	ation, ES:Estimates,	
oparting instr. L:Lab resu lo respondence, T:Image	it. M:Image cases	P:Prescription, PA.P.	VL Accepted, PB:problems,	PP:PVL Performed: PR:	PVL Recommended,	
B6			Page 25 of 33	Dati	e: 8/30/2018 3:19 PM	
	!			-2.55 to		

Client Phone Address		В		Patient: B6 Species: Canine Age: B6 Color: Buff		Golden Retriever M/Neutered
Date	Туре	Staff	History			
				B6		
g, C:Meid no	rie, CB:Call	back, CK:Che	ck-in, GM:Gommunicatk	ons, D:Diagnosis, DH:Declined to history, E.Exam L Accepted, PB:problems, PP:PVL Performed; PF	nation, ES:Estima	ılea

Page 26 of 33

FDA-CVM-FOIA-2019-1704-008623

		Pati	ent History	Report		
Client: Phone: Address:	В		Patient: Species:	B6 Canine B6		Golden Retriever M/Neutered
Date Type	Staff	History				
			B	0		
g, C:Med note, CB:Cal	M:Image cases	ck-in, CM:Communicatio s, P:Prescription, PA:PVL medinate; V:Vitalsigns	ns, D:Diagnosis, DH:De . Accepted, PB:problems	:lined to history, E:Exam s, PP:PVL Performed, PP	ination, ES:Estima 1:PVL Recommen	atles,

Page 27 of 33 Date: 8/30/2018 3:19 PM

		Pati	ent History		· ₁ .
Client: Phone: dress:	B	6	Patient: Species: Age: Color:	Canine B6	Breed: Golden Retriever Sex: M/Neutered
Date Type	Staff	History			
			B	6	

Page 28 of 33

Date: 8/30/2018 3:19 PM

		Pati	ent History	Report		
Client:			ent History Patient:	B6		
Phone:	B	<u> </u>	Species:	Canine		Golden Retriever
ddress:	D	J	Age:	B6	Sex:	M/Neutered
<u> </u>			Color:	Buff		
Date Type	Staff	History				
				B 6		
				Kľ		
					_	
		i				

Page 29 of 33

FDA-CVM-FOIA-2019-1704-008626

		Pa	tient History Report		
Client: Phone: Address:	В	6	Patient: B6 Species: Canine Age: B6 Color: Buff		Golden Retriever M/Neutered
Date Type	Staff	History			
B.Billing, Citied note, CB:Call B.Bongting instructions (BB:Call B.Contesponde note, Thanges	M:Image cases	s, P:Prescription, PA.F	ations, D.Diagnosis, DH: Declined to history, E.Examin You's Accepted, PB:problems, PP:PVL Performed, PR:	ation, E.S. Estima PVL Recommen	ales.

Page 30 of 33

FDA-CVM-FOIA-2019-1704-008627

		Path	ent History			
Client: Phone:		•	Patient: Species:	B6 Canine	Breed	Golden Retriever
Address:	B6)	Age:	B6		M/Neutered
			Color:	Buff		
Date Type	Staff	History				
			B			
				,		
MMARY:						
ling, C:Med note, CB:C	all back, CK:Check	-in, CM:Communication	ns, D:Diagnosis, DH:Dec	lined to history. E Examina	ition, ES:Estima	16's
arting instr. L:Labresu nespondence, T:Image	lt. M:Image cases, I	P:Prescription, PA:PVL	Accepted, PB:problems	, PP:PVL Performed, PR:f	VL Recommen	ded.
			Page 31 of 33	Post 4	e: 8/30/2018	2 2 4 D DM
150	:		made o i 01 oo	Date.	a. a.su/2011	0 0.19 PM

		Patient History Report	
Client: Phone: Address:	B6	Patient: B6 Species: Canine Age: B6 Color: Buff	Breed: Golden Retriever Sex: M/Neutered
Date Type	Staff History		7
SUMMARY		B6	
f:Departing instr. L:Lab result.	back, CK:Check-in, CM:Comm M:Image cases, P:Prescription TO:Tentative medinate, V:Vit	runications, D:Diagnosis, DH:Declined to history, E:B , PA:PVL Accepted, PB:problems, PP:PVL Performs al signs	Examination, ES;Estimates, ed, PR:PVL Recommended,
B6		Page 32 of 33	Date: 8/30/2018 3:19 PM

Client: Phone: Address:	B 6	Patient History Report Patient: B6 Species: Canine Age: B6 Color: Buff	Breed: Golden Retriever Sex: M/Neutered
Date Type	Staff Histor	y ·	.;; .;;
		B6	

B:Billing, C:Med note, CB:Call back, CK:Check-in, CM:Communications, D:Diagnosis, DH:Declined to history, E:Examination, ES:Estimates, l:Departing instr., L:Lab result, M:Image cases, P:Prec:ription, PA:PVL Accepted, PB:problems, PP:PVL Performed, PR:PVL Recommended, R:Correspondence, T:Images, TO:Tentative medi note; V:Vital signs

B6

Page 33 of 33

Cummings Veterinary Medical Center

AT TUFTS UNIVERSITY

Foster Hospital for Small Animals

55 Willard Street North Grafton, MA 01536 (508) 839-5395

Patient:	B6
Species:	Canine
Breed:	Golden Retriever
Sex:	Male (Neutered)
Age:	B6 Years Old

Client: Veterinarian: Patient ID: Visit ID:

Lab Results Report

T4/Clin Path	B6 5:43:00 PM	Accession ID: B6	
Test	Results	Reference Range	Units
T4/TOSOH	B6	1 - 4.1	ug/dl

stringsoft

1/1

B6

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0A3B17EBFCF14A6CB8E94F322906BADD-

Rotstein, David </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

DROTSTEI>

To: Carey, Lauren; Ceric, Olgica; Glover, Mark; Jones, Jennifer L; Nemser, Sarah; Palmer, Lee

Anne; Peloquin, Sarah; Queen, Jackie L; Rotstein, David

Sent: 10/1/2018 9:24:42 PM

Subject: please see prior PFR 364577-FW: Honest Kitchen whole grain turkey: Lisa Freeman -

EON-367347

Attachments: 2055560-report.pdf; Honest Kitchen Whole Grain Turkey: Lisa Freeman - EON-364577;

2055560-attachments.zip

David Rotstein, DVM, MPVM, Dipl. ACVP CVM Vet-LIRN Liaison CVM OSC/DC/CERT 7519 Standish Place 240-506-6763 (BB)





From:

This e-mail message is intended for the exclusive use of the recipient(s) named above. It may contain information that is protected, privileged, or confidential, and it should not be disseminated, distributed, or copied to persons not authorized to receive such information. If you are not the intended recipient, any dissemination, distribution, or copying is strictly prohibited. If you think you received this e-mail message in error, please e-mail the sender immediately at david.rotstein@fda.hhs.gov.

From: PFR Event cpfreventcreation@fda.hhs.gov>

Sent: Monday, October 01, 2018 5:05 PM

To: Cleary, Michael * < Michael. Cleary@fda.hhs.gov>; HQ Pet Food Report Notification

<HQPetFoodReportNotification@fda.hhs.gov>;
B6

Subject: Honest Kitchen whole grain turkey: Lisa Freeman - EON-367347

A PFR Report has been received and PFR Event [EON-367347] has been created in the EON System.

A "PDF" report by name "2055560-report.pdf" is attached to this email notification for your reference. Please note that all documents received in the report are compressed into a zip file by name "2055560-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-367347

ICSR #: 2055560

EON Title: PFR Event created for Honest Kitchen whole grain turkey beef or chicken + Ziwi Peak (just started

again) - see diet history for **B6** and **B6** attached; 2055560

AE Date	09/27/2018	Number Fed/Exposed	1
Best By Date		Number Reacted	1

Animal Species	Dog	Outcome to Date	Stable
Breed	Retriever - Golden		
Age	B6 Years		
District Involved	PFR-New England DO		

_		- 1		- 4	•	4	-	rm	- 4		_	
u	ra	~		\sim T		nt	\boldsymbol{n}	rm	21	•	~	n
	ıv	ч	ч	·ι			v		αι	. 11	v	

Individual Case Safety Report Number: 2055560

Product Group: Pet Food

Product Name: Honest Kitchen whole grain turkey, beef, or chicken + Ziwi Peak (just started again) - see diet

history for B6 and B6 attached

Description: Housemate diagnosed with reduced contractile function on echo

Asymptomatic NT-proBNP tested at RDVM. Will send results

Submission Type: Initial

Report Type: Adverse Event (a symptom, reaction or disease associated with the product)

Outcome of reaction/event at the time of last observation: Stable

Number of Animals Treated With Product: 1 **Number of Animals Reacted With Product: 1**

Product Name	Lot Number or ID	Best By Date
Honest Kitchen whole grain turkey, beef, or chicken + Ziwi Peak (just started again) - see diet history for B6 and B6 attached		

Sender information

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

^			
Owner	into	rmatic	าก

To view this PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-367347

To view the PFR Event Report, please click the link below:

https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none&e=0&issueType=12& issueld=384261

This email and attached document are being provided to you in your capacity as a Commissioned Official with

the U.S. Department of Health and Human Services as authorized by law. You are being provided with this information pursuant to your signed Acceptance of Commission.

This email message is intended for the exclusive use of the recipient(s) named above. It may contain information that is protected, privileged, or confidential. Any dissemination, distribution, or copying is strictly prohibited.

The information is provided as part of the Federal-State Integration initiative. As a Commissioned Official and state government official, you are reminded of your obligation to protect non-public information, including trade secret and confidential commercial information that you receive from the U.S. Food and Drug Administration from further disclosure. The information in the report is intended for situational awareness and should not be shared or acted upon independently. Any and all actions regarding this information should be coordinated through your local district FDA office.

Failure to adhere to the above provisions could result in removal from the approved distribution list. If you think you received this email in error, please send an email to FDAReportableFoods@fda.hhs.gov immediately.

Report Details - EON-	367347					
ICSR:	2055560					
Type Of Submission:	Initial					
Report Version:	FPSR.FDA.PETF.V.V1					
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	associated with the product)			
Reporting Type:	Voluntary					
Report Submission Date:	2018-10-01 16:59:24 EDT					
Reported Problem:	Problem Description:	Housemate diagnosed with reduced contractile function on echo B6). Asymptomatic NT-proBNP tested at RDVM. Will send results				
	Date Problem Started:	09/27/2018				
	Concurrent Medical Problem:	No				
	Outcome to Date:	Stable				
Product Information:	Product Name:	Honest Kitchen whole grain turkey, beef, or chicken + Ziwi Peak (just started again) - see diet history for B6 attached				
	Product Type:	To the state of th				
	Lot Number:	eri				
	Package Type:	e: BAG				
	Product Use Information:					
	Manufacturer /Distributor Information:					
	Purchase Location Information:					
Animal Information:	Name:	B6				
	Type Of Species:	s; Dog				
	Type Of Breed:	ed: Retriever - Golden				
	Gender:	r; Female				
	Reproductive Status:	Neutered				
	Weight:	29.1 Kilogram				
	Age:	B6 Years				
	Assessment of Prior Health:	Excellent				
	Number of Animals Given the Product:	1				
	Number of Animals Reacted:	1				
	Owner Information:	Owner Information provided:				
		Contact:	Name: B6			
			Email:			
		Address:				
		Addition.	B6			
			United States			
	Healthcare Professional	Practice Name:	Tufts Cummings School of Veterinary Medicine			
	Information:	Contact:	Name: Lisa Freeman Phone: (508) 887-4523 Email: lisa.freeman@tufts.edu			

		Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States		
Sender Information:	Name:	Lisa Freeman			
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States			
	Contact:	Phone:	5088874523		
		Email:	lisa.freeman@tufts.edu		
	Permission To Contact Sender:	Yes			
	Preferred Method Of Contact:	Email			
Additional Documents:	F				
	Attachment:	B6 1810011	7080.pdf B6 :- housemates)		
			B6 - housemates)		
		Medical Records			
		echo 9-27-18.pdf			
	Description:				
		Echocardiogram			
		discharge 9-27-18.p	df		
	Description:				
		Medical Records			
		taurine.pdf			
	Description:				
	Type:	Laboratory Report			

To: Cleary, Michael *; HQ Pet Food Report Notification; B6

Sent: 9/7/2018 9:20:34 PM

Subject: Honest Kitchen Whole Grain Turkey: Lisa Freeman - EON-364577

Attachments: 2054750-report.pdf; 2054750-attachments.zip

A PFR Report has been received and PFR Event [EON-364577] has been created in the EON System.

A "PDF" report by name "2054750-report.pdf" is attached to this email notification for your reference. Please note that all documents received in the report are compressed into a zip file by name "2054750-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-364577

ICSR #: 2054750

EON Title: PFR Event created for Honest Kitchen Whole Grain Turkey Beef or CHicken, Ziwi Peak (recently

started); 2054750

AE Date	09/05/2018	Number Fed/Exposed	
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	Retriever - Golden		
Age	B6 Years		
District Involved	PFR-New England DO		

Product information

Individual Case Safety Report Number: 2054750

Product Group: Pet Food

Product Name: Honest Kitchen Whole Grain Turkey, Beef, or CHicken, Ziwi Peak (recently started)

Description: Not true DCM but reduced contractility. **B6** taurine (whole blood)

Submission Type: Initial

Report Type: Adverse Event (a symptom, reaction or disease associated with the product)

Outcome of reaction/event at the time of last observation: Stable

Number of Animals Reacted With Product: 1

Product Name	Lot Number or ID	Best By Date
Ziwi Peak (recently started)		
Honest Kitchen Whole Grain Turkey, Beef, or CHicken		

Sender information

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

Owner information

B6

USA

To view this PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-364577

To view the PFR Event Report, please click the link below:

https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none&e=0&issueType=12&issueId=381311

This email and attached document are being provided to you in your capacity as a Commissioned Official with the U.S. Department of Health and Human Services as authorized by law. You are being provided with this information pursuant to your signed Acceptance of Commission.

This email message is intended for the exclusive use of the recipient(s) named above. It may contain information that is protected, privileged, or confidential. Any dissemination, distribution, or copying is strictly prohibited.

The information is provided as part of the Federal-State Integration initiative. As a Commissioned Official and state government official, you are reminded of your obligation to protect non-public information, including trade secret and confidential commercial information that you receive from the U.S. Food and Drug Administration from further disclosure. The information in the report is intended for situational awareness and should not be shared or acted upon independently. Any and all actions regarding this information should be coordinated through your local district FDA office.

Failure to adhere to the above provisions could result in removal from the approved distribution list. If you think you received this email in error, please send an email to FDAReportableFoods@fda.hhs.gov immediately.

Report Details - EON-	364577					
ICSR:	2054750					
Type Of Submission:	Initial					
Report Version:	FPSR.FDA.PETF.V.V1					
Type Of Report:	Adverse Event (a symptom	, reaction or disease a	associated with the	product)		
Reporting Type:	Voluntary					
Report Submission Date:	2018-09-07 17:16:09 EDT					
Reported Problem:	Problem Description:	Not true DCM but re	duced contractility.	B6 taurine	(whole blood)	
	Date Problem Started:	<u>, </u>				***************************************
	Concurrent Medical Problem:	62 ·				
	Outcome to Date:	Stable				
Product Information:	Product Name:	Ziwi Peak (recently s	started)			
	Product Type:					
	Lot Number:	(<u> </u>				
	Package Type:	BAG				
	Product Use Information:					
	Manufacturer /Distributor Information:					
	Purchase Location Information:					
	Product Name:	Honest Kitchen Who	ile Grain Turkey, B	eef, or CHic	ken	
	Product Type:	Pet Food				
	Lot Number:					
	Package Type:	BAG				
	Product Use Information:					
	Manufacturer /Distributor Information:		1200 A 1200 A 1200 A 1200 A 1200 A 1200 A 1200 A 1200 A 1200 A 1200 A 1200 A 1200 A 1200 A 1200 A 1200 A 1200 A			
	Purchase Location Information:					
Animal Information:	Name:	B6				
	Type Of Species:	Dog				
	Type Of Breed:	Retriever - Golden				
	Gender:	Male				
	Reproductive Status:					
	: <u>;;;:::::::::::::::::::::::::::::::::</u>	31.5 Kilogram				
		B6 Years	u			
	Assessment of Prior Health:					~~~~~~~~
	Number of Animals Reacted:	1				
	Owner Information:	Owner	Yes			
		Information provided:	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
		Contact: Address:	Name: Phone:	B6		
		Address.	B6			
			United States			

	Healthcare Professional Information:	Practice Name:	_	s School of Veterinary Medicine	
	Information:	Contact:	Name:	Lisa Freeman	
			Phone:	(508) 887-4523	
			Email:	lisa.freeman@tufts.edu	
		Address:	200 Westboro North Grafton Massachusetts 01536 United States		
		Practice Name:	-	s School of Veterinary Medicine	
		Contact:	Name:	Emily Karlin	
			Phone:	508-887-4696	
		Permission to Release Records to FDA:	Yes		
Sender Information:	Name:	Lisa Freeman			
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States			
	Contact:	Phone:	5088874523		
		Email:	lisa.freeman@t	tufts.edu	
	Permission To Contact Sender:	Yes			
	Preferred Method Of Contact:				
Additional Documents:					
	Attachment:	cardio discharge 9-5	-18.pdf		
	Description:	Cardio discharge			
	Туре:	Medical Records			
	Attachment:	t4.pdf			
	Description:				
		Laboratory Report			
	Attachment:	rdvm records.pdf			
		RDVM records			
		Medical Records			
	Attachment:	cardio report 9-5-18.	pdf		
		Cardio report			
		Medical Records			

Cummings Veterinary Medical Center

Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://vetmed.tufts.edu/

Discharge Instructions

Patient:	Owner		
Name: B6	Name:	B6	Patient ID: 426744
Species: Canine	Address:	D6	····
Gold Male (Neutered) Golden Retriever		B6	
Birthdate: B6	· · ·		·
Attending Cardiologist:			
John E. Rush DVM, MS, DACVIM (Cardiology), D4	CVECC	
B6			
Cardiology Resident:			
E	B6		
Cardiology Technician:			
D6			
B6			
Date: 9/5/2018			
Diagnoses:			
Mild reduced contractile function, normal	cardiac size		
Low blood taurine levels			
Clinical Findings: Thank you for bringing	B6 infore	valuation of his heart. H	is heart is normal in size, but his
Clinical Findings: Thank you for bringing contractile function is not quite as vigorou			
	s as some dogs	. This could be a variation	of normal for him, but it is also possible
contractile function is not quite as vigorou	s as some dogs have submitte	. This could be a variation d an MiproBNP test to g	n of normal for him, but it is also possible ather more information about B6
contractile function is not quite as vigorous that it could be related to low taurine. We	s as some dogs have submitte to assess — E	. This could be a variation d an MiproBNP test to g	n of normal for him, but it is also possible ather more information about B6
contractile function is not quite as vigorous that it could be related to low taurine. We heart health. We also submitted a total T4	s as some dogs have submitte to assess — E	. This could be a variation d an MiproBNP test to g	n of normal for him, but it is also possible ather more information about B6
contractile function is not quite as vigorous that it could be related to low taurine. We heart health. We also submitted a total T4	s as some dogs have submitte to assess E s.	. This could be a variation d an MiproBNP test to g 36 thyroid on his cun	n of normal for him, but it is also possible ather more information about B6 rent level of medication. We will call you
contractile function is not quite as vigorous that it could be related to low taurine. We heart health. We also submitted a total T4 with these results within the next few days	s as some dogs have submitte to assess E s.	. This could be a variation d an MiproBNP test to g 36 thyroid on his cun	n of normal for him, but it is also possible ather more information about B6 rent level of medication. We will call you
contractile function is not quite as vigorous that it could be related to low taurine. We heart health. We also submitted a total T4 with these results within the next few days. Monitoring at Home: Please watch for an	s as sume dogs have submitte to assess E s. y exercise intol	This could be a variation d an NTproBNP test to g thyroid on his cun erance, weakness, or co	n of normal for him, but it is also possible ather more information about B6 ent level of medication. We will call you lapse.
contractile function is not quite as vigorous that it could be related to low taurine. We heart health. We also submitted a total T4 with these results within the next few days	s as some dogs have submitte to assess E s. y exercise intol ge in B6	This could be a variation d an NTproBNP test to g 6 thyroid on his cun erance, weakness, or co diet. If you would like to	n of normal for him, but it is also possible ather more information about B6 ent level of medication. We will call you lapse. pursue a mix of home cooking and new
contractile function is not quite as vigorous that it could be related to low taurine. We heart health. We also submitted a total T4 with these results within the next few days. Monitoring at Home: Please watch for an Diet Suggestions: We recommend a change.	6 as some dogs have submitte to assess E s. y exercise intol ge in B6 ion consultatio	This could be a variation d an NTproBNP test to g 6 thyroid on his cun erance, weakness, or co diet. If you would like to	n of normal for him, but it is also possible ather more information about B6 ent level of medication. We will call you lapse. pursue a mix of home cooking and new
contractile function is not quite as vigorous that it could be related to low taurine. We heart health. We also submitted a total T4 with these results within the next few days. Monitoring at Home: Please watch for an Diet Suggestions: We recommend a chang kibble we recommend scheduling a Nutriti	6 as some dogs have submitte to assess E s. y exercise intol ge in B6 ion consultatio	This could be a variation d an NTproBNP test to g thyroid on his currence, weakness, or co- diet. If you would like to with Dr Lisa Freeman.	n of normal for him, but it is also possible ather more information about B6 ent level of medication. We will call you lapse. pursue a mix of home cooking and new
contractile function is not quite as vigorous that it could be related to low taurine. We heart health. We also submitted a total T4 with these results within the next few days. Monitoring at Home: Please watch for an Diet Suggestions: We recommend a chang kibble we recommend scheduling a Nutriti cooked diet then please schedule an appo	s as some dogs have submitte to assess	This could be a variation d an NTproBNP test to g 6 thyroid on his cun erance, weakness, or co diet. If you would like to 86 86	n of normal for him, but it is also possible ather more information about B6 ent level of medication. We will call you lapse. pursue a mix of home cooking and new
contractile function is not quite as vigorous that it could be related to low taurine. We heart health. We also submitted a total T4 with these results within the next few days. Monitoring at Home: Please watch for an Diet Suggestions: We recommend a chang kibble we recommend scheduling a Nutriti	s as some dogs have submitte to assess	This could be a variation d an NTproBNP test to g 6 thyroid on his cun erance, weakness, or co diet. If you would like to 86 86	n of normal for him, but it is also possible ather more information about B6 ent level of medication. We will call you lapse. pursue a mix of home cooking and new
contractile function is not quite as vigorous that it could be related to low taurine. We heart health. We also submitted a total T4 with these results within the next few days. Monitoring at Home: Please watch for an Diet Suggestions: We recommend a chang kibble we recommend scheduling a Nutriti cooked diet then please schedule an appo	s as some dogs have submitte to assess	This could be a variation d an NTproBNP test to g 6 thyroid on his cun erance, weakness, or co diet. If you would like to 86 86	n of normal for him, but it is also possible ather more information about B6 ent level of medication. We will call you lapse. pursue a mix of home cooking and new
contractile function is not quite as vigorous that it could be related to low taurine. We heart health. We also submitted a total T4 with these results within the next few days. Monitoring at Home: Please watch for an Diet Suggestions: We recommend a change kibble we recommend scheduling a Nutritic cooked diet then please schedule an appointment of the please schedule and appointment of the please schedule and appointment of the please schedule and appointment of the please schedule and appointment of the please schedule and appointment of the please schedules.	s as some dogs have submitte to assess	This could be a variation d an NTproBNP test to g 6 thyroid on his cun erance, weakness, or co diet. If you would like to 86 86	n of normal for him, but it is also possible ather more information about B6 ent level of medication. We will call you lapse. pursue a mix of home cooking and new
contractile function is not quite as vigorous that it could be related to low taurine. We heart health. We also submitted a total T4 with these results within the next few days. Monitoring at Home: Please watch for an Diet Suggestions: We recommend a chang kibble we recommend scheduling a Nutriti cooked diet then please schedule an apport	s as some dogs have submitte to assess	This could be a variation d an NTproBNP test to g 6 thyroid on his cun erance, weakness, or co diet. If you would like to 86 86	n of normal for him, but it is also possible ather more information about B6 ent level of medication. We will call you lapse. pursue a mix of home cooking and new
contractile function is not quite as vigorous that it could be related to low taurine. We heart health. We also submitted a total T4 with these results within the next few days. Monitoring at Home: Please watch for an Diet Suggestions: We recommend a change kibble we recommend scheduling a Nutritic cooked diet then please schedule an appointment of the please schedule and appointment of the please schedule and appointment of the please schedule and appointment of the please schedule and appointment of the please schedule and appointment of the please schedules.	s as some dogs have submitte to assess	This could be a variation d an NTproBNP test to g 6 thyroid on his cun erance, weakness, or co diet. If you would like to 86 86	n of normal for him, but it is also possible ather more information about B6 ent level of medication. We will call you lapse. pursue a mix of home cooking and new
contractile function is not quite as vigorous that it could be related to low taurine. We heart health. We also submitted a total T4 with these results within the next few days. Monitoring at Home: Please watch for an Diet Suggestions: We recommend a chang kibble we recommend scheduling a Nutriti cooked diet then please schedule an appoint please Recommendations: B6 car Recommended Medications:	6 as some dogs have submitte to assess	This could be a variation of an NTproBNP test to grade ithyroid on his cunserance, weakness, or condition with Dr Lisa Freeman. In B6	nof normal for him, but it is also possible ather more information about B6 ent level of medication. We will call you lapse. I pursue a mix of home cooking and new fyou would like to feed primarily home
contractile function is not quite as vigorous that it could be related to low taurine. We heart health. We also submitted a total T4 with these results within the next few days. Monitoring at Home: Please watch for an object Suggestions: We recommend a change kibble we recommend scheduling a Nutriti cooked diet then please schedule an appoint the please schedule and appoint the please schedule and poor the please schedule. Recommended Medications: B6 Recheck Visits: We will want to do a reche	6 as some dogs have submitte to assess	This could be a variation of an NTproBNP test to grade ithyroid on his cunserance, weakness, or condition with Dr Lisa Freeman. In B6	nof normal for him, but it is also possible ather more information about B6 ent level of medication. We will call you lapse. I pursue a mix of home cooking and new fyou would like to feed primarily home
contractile function is not quite as vigorous that it could be related to low taurine. We heart health. We also submitted a total T4 with these results within the next few days. Monitoring at Home: Please watch for an Diet Suggestions: We recommend a chang kibble we recommend scheduling a Nutriti cooked diet then please schedule an appoint please Recommendations: B6 car Recommended Medications:	6 as some dogs have submitte to assess	This could be a variation of an NTproBNP test to grade ithyroid on his cunserance, weakness, or condition with Dr Lisa Freeman. In B6	nof normal for him, but it is also possible ather more information about B6 ent level of medication. We will call you lapse. I pursue a mix of home cooking and new fyou would like to feed primarily home
contractile function is not quite as vigorous that it could be related to low taurine. We heart health. We also submitted a total T4 with these results within the next few days. Monitoring at Home: Please watch for an object Suggestions: We recommend a change kibble we recommend scheduling a Nutriti cooked diet then please schedule an appoint the please schedule and appoint the please schedule and poor the please schedule. Recommended Medications: B6 Recheck Visits: We will want to do a reche	s as some dogs have submitte to assess s y exercise intol ge in	This could be a variation of an NTproBNP test to grade ithyroid on his cunserance, weakness, or condition with Dr Lisa Freeman. In B6	nof normal for him, but it is also possible ather more information about B6 ent level of medication. We will call you lapse. I pursue a mix of home cooking and new fyou would like to feed primarily home

(508)-887-4696 or email us at cardiovet@tufts.edu for scheduling and non-emergent questions or concerns.

Please visit our HeartSmart website for more information
http://vet.tufts.edu/heartsmart/

Prescription Refil Dischiner:

For the safety and well-being of our patients, your pet must have had an examination by one of our veterinarians within the past year in order to obtain prescription medications.

Ordering Food:

Please check with your primary veterinarian to purchase the recommended diet(s). If you wish to purchase your food from us, please call 7-10 days in advance (508-887-4629) to ensure the food is in stock. Alternatively, veterinary diets can be ordered from online retailers with a prescription/veterinary approval.

Clinical Triols:

Clinical trials are studies in which our veterinary doctors work with you and your pet to investigate a specific disease process or a promising new test or treatment. Please see our website: vet.tufts.edu/cvmc/dinical-studies

Case: Bo Contact: Do Discharge institutions	Case B6	Owner B6	Discharge Instructions	
---	---------	----------	------------------------	--

Cummings Veterinary Medical Center

Cardiology Liaison: 508-887-4696

F	7	C	
	3	O	

Patient ID: 426744

B6 Canine

B6 Years Old Male (Neutered) Golden Retriever

Cardiology Appointment Report

Date: 9/5/2018	
Attending Cardiologist:	
John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC	
B6	
Cardiology Resident:	
B6	
Cardiology Technician:	
B6	
Presenting Complaint: Low taurine level - B6 On facebook page with	
getting an echo. Tested B6 but is not symptomatic. Has be noticed in the last year that he gets out of the pool sooner than usual.	
breathing difficulties or coughing. May breathe faster than other dog	
in carring armounter or cooping, may break keep that only object	В
Owner sent out whole blood taurine test after reading about low tauri	ne on line.
Owner self-out where blood was the text and recording about for the self-out	
_	
Concurrent Diseases: B6	
Concurrent Diseases: B6	
Concurrent Diseases: B6	
Concurrent Diseases: B6 B6 otherwise.	
Concurrent Diseases: B6 B6 otherwise. General Medical History: Is on heartworm prevention every 6 weeks to 2 months. B6	
Concurrent Diseases: B6 B6 otherwise. General Medical History: Is on heartworm prevention every 6 weeks to 2 months. B6 Diet and Supplements:	Happy and heathy
Concurrent Diseases: B6 B6 otherwise. General Medical History: Is on heartworm prevention every 6 weeks to 2 months. B6 Diet and Supplements: ZiwePeak grain free, air dried; home cooked. Switched to honest kitched	Happy and heathy
Concurrent Diseases: B6 B6 otherwise. General Medical History: Is on heartworm prevention every 6 weeks to 2 months. B6 Diet and Supplements:	Happy and heathy
Concurrent Diseases: B6 B6 otherwise. General Medical History: Is on heartworm prevention every 6 weeks to 2 months. B6 Diet and Supplements: ZiwePeak grain free, air dried; home cooked. Switched to honest kitched	Happy and heathy
Concurrent Diseases: B6 B6 otherwise. General Medical History: Is on heartworm prevention every 6 weeks to 2 months. B6 Diet and Supplements: ZiwePeak grain free, air dried; home cooked. Switched to honest kitche rotates food, got treats will grains. Sardines. Cardiovascular History: Prior CHF diagnosis? no	Happy and heathy
Concurrent Diseases: B6 B6 otherwise. General Medical History: Is on heartworm prevention every 6 weeks to 2 months. B6 Diet and Supplements: ZiwePeak grain free, air dried; home cooked. Switched to honest kitche rotates food, got treats will grains. Sardines. Cardiovascular History: Prior CHF diagnosis? no Prior heart murmur? no	Happy and heathy
Concurrent Diseases: B6 B6 otherwise. General Medical History: Is on heartworm prevention every 6 weeks to 2 months. B6 Diet and Supplements: ZiwePeak grain free, air dried; home cooked. Switched to honest kitcherotates food, got treats will grains. Sardines. Cardiovascular History: Prior CHF diagnosis? no Prior heart murmur? no Prior ATE? no	Happy and heathy
Concurrent Diseases: B6 Otherwise. General Medical History: Is on heartworm prevention every 6 weeks to 2 months. B6 Diet and Supplements: ZiwePeak grain free, air dried; home cooked. Switched to honest kitcherotates food, got treats will grains. Sardines. Cardiovascular History: Prior CHF diagnosis? no Prior heart murmur? no Prior ATE? no Prior arrhythmia? no	Happy and heathy
Concurrent Diseases: B6 B6 otherwise. General Medical History: Is on heartworm prevention every 6 weeks to 2 months. B6 Diet and Supplements: ZiwePeak grain free, air dried; home cooked. Switched to honest kitcherotates food, got treats will grains. Sardines. Cardiovascular History: Prior CHF diagnosis? no Prior heart murmur? no Prior ATE? no	Happy and heathy

Exercise intolerance? starting last year started leaving the pool sooner, coughs to clear throat **Current Medications Pertinent to CV System:** Medication: **B6** Formulation/Tab Size B6 twice a day Administration Frequency: Need refills? Medication: B6 Formulation/Tab Size B6 Administration Frequency: Give 1 Tablet Twice a day Need refills? Medication: omega 3 fatty acids Formulation/Tab Size: nordic naturals once a day 2 teaspoons Administration Frequency: Need refills? Cardiac Physical Examination: Muscle condition: Moderate cachecia Normal Mildmuscleloss Marked cachesia Cardiovascular Physical Exam: Murmur Grade: Mone ■ I/VI **■** v/vi Jugular vein: Markettan 1/3 of the neck 1/2 way up the neck Middle 1/3 of the neck Top 2/3 of the neck Arterial pulses: Weak Bounding Fair Pulse deficits Good Pulsus paradoxus Other: Strong Arrhythmia: Mone. Bradycardia Sinus arrhythmia Tachycardia Premature beats

Shortness of breath or difficulty breathing? no

Syncope or collapse? no Sudden onset lameness? no

Pulmonary assessments: Expresc	Gallop: Yes No Intermittent	Pronounced Other:
Normal	 Eupneic Mild dyspnea Marked dyspnea 	Wheezes
Diagnostic plan: Diagnostic plan: Chemistry profile Chemistry Chemistr	✓ Normal ☐ Hepatomegaly	
Dialysis profile Thoracic radiographs Dialysis profile Thoracic radiographs Renal profile Troponin Dialysis profile Troponin Dialysis profile Troponin Dialysis profile Troponin Dialysis profile Troponin Dialysis profile Troponin Dialysis profile Troponin Dialysis profile Troponin Dialysis profile Thoracic radiographs Dialysis profile Thoracic radiographs Dialysis profile Thoracic radiographs Dialysis profile Thoracic radiographs Dialysis profile Thoracic radiographs Dialysis profile Thoracic radiographs Dialysis profile Thoracic radiographs Dialysis profile Thoracic radiographs Dialysis profile Thoracic radiographs Dialysis profile Dialysis profile Thoracic radiographs Dialysis profile Thoracic radiographs Dialysis profile Thoracic radiographs Dialysis profile Thoracic radiographs Dialysis profile Thoracic radiographs Dialysis profile Thoracic radiographs Dialysis profile Dialysis profile Thoracic radiographs Dialysis profile Dialys		
Mitral inflow: Summated Pseudonormal Normal Restrictive Delayed relaxation	 ✓ Echocardiogram ✓ Chemistry profile ✓ ECG ✓ Renal profile ✓ Blood pressure 	■ Thoracic radiographs ■ NT-proBNP ■ Troponin I
 Summated ✓ Normal Delayed relaxation Pseudonormal Restrictive		B6
ECG findings:	Summated Normal	
De		
B6 Assessment and recommendations:		

Echocardiogram reveals mildly reduced contractile function with no evidence of chamber enlargement or wall thinning. It is possible that these mild changes are related to taurine deficiency/diet, but other mild cardiomyopathy, age related change, or variation for this individual cannot be ruled out. An NTproBNP level was submitted for additional information. Patient is receiving thyroid supplementation and T4 has not been checked recently, so T4 was also submitted today (6 hours post pill). Recommend taurine

supplementation and diet change	B6
	B6

Final Diagnosis:

Mildly reduced LV contractile function

<u>M-Mode</u>		
IVSd		cm
LVIDd		cm
LVPWd		cm
IVSs		cm
LVIDs	D.C.	cm
LVPWs	B6	cm
%FS	•	%
Ao Diam		cm
LA Diam		cm
LA/Ao		
Max LA		cm
M-Mode Normalized	ļ	
IVSdN	(0.29 - 0.52) !	
LVIDdN	(1.3 5 - 1.7 3)	
LVPWdN	(0.33 - 0.53)	
IVSsN	B6 (0.43 - 0.71)	
LVIDsN	(0.79 - 1.14)	
LVPWsN	(0.53 - 0.78)	
Ao Diam N	(0.68 - 0.89)	
LA Diam N	(0.64 - 0.90)	
<u>2D</u>	·	
SA IA		cm
Ao Diam		cm
SA LA / Ao Diam	B6	
IVSd		cm
LVIDd		cm

LVPWd EDV(Teich) IVSs LVIDs LVPWs ESV(Teich) EF(Teich) %FS SV(Teich) LVID A2C LVEDV MOD A2C LVESV MOD A2C LVESV MOD A2C LVEF MOD A2C LVEF MOD A2C LVID LAX LVAD LAX LVAD LAX LVEDV A-L LAX LVEDV MOD LAX LVIS LAX LVESV A-L LAX LVESV A-L LAX LVESV MOD LAX LVESV MOD LAX LVESV MOD LAX LVEF MOD LAX SV A-L LAX LVEF MOD LAX SV MOD LAX SV A-L LAX SV MOD LAX CO A-L LAX CO MOD LAX	В6	cm ml cm cm cm ml % % ml cm ml cm ml cm ml cm cm ml ml cm cm cl ml ml cm cl ml ml cl ml ml ml ml ml ml ml ml ml ml ml ml ml
Doppler MV EVel MV DecT MV A Vel MV E/A Ratio E' A' E/E' PV Vmax PV maxPG AV Vmax AV maxPG TR Vmax TR maxPG	В6	m/s ms m/s m/s m/s mmHg m/s mmHg m/s mmHg

٠			1 4461	ient History	· · · · · · · · · · · · · · · · · · ·	·····	
Client Phone Address		B	6	Patient: Species: Age: Color:	Canine B6	Breed: Gold Sex: M/N	len Retriever eutered
Date	Туре	Staff	History				
Client Initiated	ge level v 36	vas low and t	MVC Initiated C he vet at UC Davis re	all / Contact	FATIVE - Taurine to Linon Linon Linon Linon Linon Linon Linon with the control of	n Person	E-mail ,
in earli					<u> </u>	·	
	·			B			
B6	_F 4	012	level		- Blood draw	> owner to send	to UC for taurine
ason For Vis scussion Item iter Item Disc	nst		Blood draw for taurine Blood draw, put into g B6		to send to UC lab hers	elf for	В6
ullow Up need	led / recoi	mme:nded l	None				
B6	٧	0.88	Aug 21, 20 Weight	18 09:14 AM :	Staff: 088		
	CK de CB Cel	0	Blood draw S		clined to history, E.Examin	ation RS Felimotics	
parting instr. L.	Lab result.	Milmage case			s, PP:PVL Performed: PR:		
	R6			Page 1 of 33	∩at	e: 8/30/2018 3:1	3 PM

		Pat	ient History	Report		
Client: Phone: Address:	B	6	Patient: Species: Age: Color:	B6	Breed: Gok Sex: M/N	len Retriever eutered
Date Type	Staff	History				
B6 B	012	Date Patient	/isit: TECH APPO Checked Out, 08/ raw/Pact B6	21/18 Practice 1	74) by 022	
B6 C	081	Phone & Oth	er Contact - CLO:	SED B6	- Wanting to sched	lule blood draw
	lule with a tech er the appointn	i, ct will wait till the b			dule, ot would prefer a	morning appt so th
			B	5		
eparting instr. L:Labresu	lt. M:Image case	s, P:Prescription, PA:P1	ions, D:Diagnosis, DH:De VL Accepted, PB:problem	lined to history. E.Exam s, PP:PVL Performed. P	ination, ES:Estimates, R:PVL Recommended,	
Correspondence, T:Image	es, TO:Tentative	medt note: V:Vitalsigns	Page 2 of 33	D-	sta pigamanto gui	n DM

Client: Phone: Address:	B		ent History Patient: Species: Age: Color:	B6 Canine B6	Golden Retriever M/Neutered
Date Type	Staff	History			
			B		

Page 3 of 33

Date: 8/30/2018 3:19 PM

			Pati	ent History		
Client Phone ddress	r:	B	6	Patient: Species: Age: Color:	Canine B6	Golden Retriever M/Neutered
Date	Туре	Staff	History			
				B	Ō	

Page 4 of 33

FDA-CVM-FOIA-2019-1704-008651

		Pati	ent History Report	
Client: Phone: ddress:	B	6	Patient: B6 Species: Canine Age: B6 Color: Buff	Golden Retriever M/Neutered
Date Type	Staff	History		
			DC	
			B6	

Page 5 of 33

Client: Phone: ddress:	В	6	Patient: B6 Species: Canine Age: B6 Color: Buff	Golden Retriever M/Neutered
Date Type	Staff	History		
			B6	
			DU	

Page 6 of 33

Client: Phone: Address:		Patient: B6 Species: Captine Age: B6 Color: Buff	Breed: Golden Retriever Sex: M/Neutered
Date Type Staff	History	B	
ling, C:Med note, C8:Call back, CK:C	neck-ini, CM:Communication	rs, D:Diagnosis, DH:Declined to history. E.Exar Accepted, PB:problems, PP:PVL Performed, I	mination, ES:Estimates,

Page 7 of 33

Date: 8/30/2018 3:19 PM

B6

	Pati	ent History Report	
Client: Phone: Address:	36	Patient: B6 Species: Canine Age: B6 Color: Buff	Breed: Golden Retriever Sex: M/Neutered
Address: Date Type Sta		Age: B6	
ing, C:Me'd note, CB:Call back, '	:X:Check-in, CM:Communication	ns, D:Diagnosis, DH:Declined to history, E:Examinat	ion, ES: Estimates.

Page 8 of 33

Date: 8/30/2018 3:19 PM

Address: DU Ag	s: Canine Breed: Golden Retriever e: B6 Sex: M/Neutered r: Buff
В	
B	
В	
В	
В	
В	
В	
В	
	O

Page 9 of 33 Date: 8/30/2018 3:19 PM

Client:			Patient: B6	
Phone: Address:	B	b	Species: <u>Canine</u> Age: <u>B6</u> Color: Buff	Breed: Golden Retriever Sex: M/Neutered
Date Type	Staff	History		
			B6	

Page 10 of 33

		Patie	ent History	Report		
Client: Phone: Address:	B	3	Patient: Species: Age: Color:	Canine B6		Golden Retriever M/Neutered
Date Type	Staff	History				
				B(
na. C:Med note, CB:Call	back CK:Che	ck-in, CM:Communication	rs. D:Diagnosis, DH:Deo	(lined to history, E.Examin	ation, ES Estima	No.

Page 11 of 33

Date: 8/30/2018 3:19 PM

Client: Phone: Address:	В	3	Patient: B6 Species: Canine Age: B6 Color: Buff		Golden Retriever M/Neutered
Date Type	Staff	History			
		I	DC		
			B6		
ling, C:Med note, CB:Ca exting instr. L:Lah result	li back, CK:Che M:Image caser	ck-in, CM:Communication s, P:Prescription, PA:PVL	rs. D:Diagnosis, DH:Declined to history. E:Ex Accepted, PB:problems, PP:PVL Performed	amination, ES:Estima , PR:PVL Recommer	ntes, ided.

Page 12 of 33

		Pati	ent History	Report		
Client: Phone: Address:	В	6	Patient: Species: Age: Color:	Canine B6	Breed: Golden Retrie Sex: M/Neutered	∋ver
Date Type	Staff	History				
		I	B			
			D(J		
Hard copy is filed	d 🔲 Do	cument is capture	d below, no hard	copy saved		
UMMARY: Seen 8 omiting with no cho	8/9 at B6 ocolate resid	Hospital for pos ace seen , given	isible chacalate) B6	ngestion during the	e night, dog clinically norm	nal, induc
Billing, C:Med note, CB:Ca leparting instr. L.Lab result Correspondence, T:Image:	ill back, CK:Che , M:Image cases	 k-in, CM:Communication P:Prescription, PA:PVL	ns, DiDiagnosis, DH:De Accepted, PB:problems	.⇒ :tined to history, E.Examir s, PP:PVL Performed, PR	ation, ES:Estimates, PVL Recommended,	
B6		***	Page 13 of 33	Dat	A: 8/30/2018 3:19 PM	

Client:	:			Patient:	Report B6]	
Phone: Address:		B	5	Species: Age: Color:	Canine B6		Golden Retriever M/Neutered
	\(\begin{align*}	Und to the last					
Date	Туре	Staff	History				
				B	•		

Page 14 of 33

records.

B6

Page 15 of 33

		Pat	ient History	Report		
Client: Phone: Address:	B		Patient:	B6 Canine B6		Golden Retriever M/Neutered
Date Type	Staff	History				
			B	0		
ing, C:Meid note, CB:Cal	l back, CK:Che	ck-in, CM:Communicati	ons, D:Diagnosis, DH:Dec	lined to history, E.Exami	nation, E.S.Estima	16·s.
arting instr. L.Lab result respondence, T.Images			L Accepted, PB:problems Page 16 of 33		:PVL Recommen te : 8/30/2018	

Date Ty	ype Staff	History	В	6	
			В	6	
			В	6	
			В	6	
			В	6	
			B	6	
			D		

Page 17 of 33

В6

FDA-CVM-FOIA-2019-1704-008664

Client: Phone: Address:	B	6	Patient: B6 Species: Canine Age: B6 Color: Buff	Golden Retriever M/Neutered
Date Type	Staff	History		
			B6	

Page 18 of 33

Date: 8/30/2018 3:19 PM

Client: Phone: Address:	В	_	Patient: B6 Species: Canine Age: B6 Color: Buff	Breed: Golden Retriever Sex: M/Neutered
Date Type	Staff	History		
			DC	
			B6	

Page 19 of 33

FDA-CVM-FOIA-2019-1704-008666

			Pati	ent History		
Clien Phona Addres	e:	B	6	Patient: Species: Age: Color:	Canine B6	Golden Retriever M/Neutered
Date	Type	Staff	History			
				D		
				B		

Page 20 of 33

records.

В6

Client: Phone: Address:	В	6	Patient: B6 Species: Canine Age: B6 Color: Buff	Golden Retriever M/Neutered
Date Type	Staff	History		
			B6	
			DU	

Page 21 of 33

FDA-CVM-FOIA-2019-1704-008668

Client: Phone: Address:	B	Pati	Patient: B6 Species: Canine Age: B6 Color: Buff	Breed: Golden Retriever Sex: M/Neutered
Date Type	Staff	History		
rere Type	oran	inatory		
			RK	
			B6	
			_	

Page 22 of 33

FDA-CVM-FOIA-2019-1704-008669

Client: Phone: Address:	В		tient History Patient: Species: Age: Color:	Eanine B6	Golden Retriever M/Neutered
Date Type	Staff	History			
			R	6	
			B	6	
			B	6	
			B	6	
			B	6	

B:Billing, C:Med note, CB:Call back, CK:Check-in, CM:Communications, D:Diagnosis, DH:Declined to history, E:Examination, ES:Estimates, I:Departing instr. (:Lab result, M:Image cases, P:Prescription, PA.P.VL. Accepted, PB:problems, PP:P.VL. Performed, PR:P.VL. Recommended, R:Correspondence, T:Images, TO:Tentative medi note; V:Vital signs

В6

Page 23 of 33

Phone: Species: Canine Breed: (Report	atient History	Ŷ.		
	Golden Retriever M/Neutered	Breed: Golden Sex: M/Neut	<u>B6</u>	Species: Age:	6	B	Phone:
B6					History	Staff	Date Type
B6							
B6							
B6							
B6							
В6							
				B			

Page 24 of 33

FDA-CVM-FOIA-2019-1704-008671

Client: Phone: Address:	86	ient History Repert Patient: B6 Species: Canine Breed: Golden Retriever Age: B6 Sex: M/Neutered Color: Buff
Date Type Star	l History	
		B6

B:Billing, C:Med note, CB:Call back, CK:Check-in, CM:Communications, D:Diagnosis, DH:Declined to history, E:Examination, ES:Estimates, I:Departing instr., L:Lab result, M:Image cases, P:Prescription, PA.P.VL. Accepted, PB:problems, PP:P.VL. Performed, PR:P.VL. Recommended, R:Correspondence, T:Images, TO:Tentative medinate, V:Vital signs

B6

Page 25 of 33

Client: Phone:	В	6	Patient: Species: Age: Color:	Canine B6	Golden Retriever M/Neutered
Date Type	Staff	History			
			B	3	

Page 26 of 33

Date: 8/30/2018 3:19 PM

B6

Phone: Address:	В	6	Patient: Species: Age: Color:	Canine B6	Golden Retriever M/Neutered
Date Type	Staff	History			
			B	0	

Page 27 of 33 Date: 8/30/2018 3:19 PM

Client: Phone: Address:	В	_	ent History Patient: Species: Age: Color:	B6 Canine B6	Golden Retriever M/Neutered
Date Type	Staff	History			
			B	•	

Page 28 of 33

Date: 8/30/2018 3:19 PM

Client: Phone: Address:	Patient: Species: Canine Age: E	B6 Breed: Golden Retriever B6 Sex: M/Neutered
Date Type Staff	History	
		36
	i	

Page 29 of 33

В6

FDA-CVM-FOIA-2019-1704-008676

			Patient History	Report		
Client:		^	Patient:]	Community of the second
Phone: ddress:	B	0	Species: Age:	Canine B6		Golden Retriever M/Neutered
LAJIUSS.			Age: Color:		Sex:	1917 13 THE THE
2010-12-124	LE ALF SI					
Date Type	Staff	History	, . 			
			B			
				U		

Page 30 of 33

			History F		
Client: Phone: Address:	B6		Patient: Species: (Age: Color: E	В6	Golden Retriever M/Neutered
Date Type	Staff His	story			
		E	36	5	

Page 31 of 33

В6

B6

Phone Address		B	3	Patient: B6 Species: Canine Age: B6 Color: Buff	Golden Retriever M/Neutered
Date	Туре	Staff	History		
				B6	
MARY:					

Page 32 of 33

		Pati	ent History Report	
Client: Phone: Address:	B	_	Patient B6 Species: Canine Age: B6 Color: Buff	Golden Retriever M/Neutered
Date Type	Staff	History		
			Hh	
			B6	
			B 6	
			B 6	
			B 6	
			В6	

B:Billing, C:Med note, CB:Call back, CK:Check-in, CM:Communications, D:Diagnosis, DH:Declined to history, E:Examination, ES:Estimates, I:Departing instr., L:Lab result, M:Image cases, P:Prescription, PA:PVL Accepted, PB:problems, PP:PVL Performed, PR:PVL Recommended, R:Correspondence, T:Images, TO:Tentative medi note; V:Vital signs

B6

Page 33 of 33

Date: 8/30/2018 3:19 PM

Cummings Veterinary Medical Center

Foster Hospital for Small Animals

55 Willard Street North Grafton, MA 01536 (508) 839-5395

Client:	
Veterinarian:	P6
Patient ID:	DU
Visit ID:	

Patient:	B6
Species:	Canine
Breed:	Golden Retriever
Sex:	Male (Neutered)
Age:	B6 Years Old

Lab Results Report

T4/Clin Path	9/5/2018 5:43:00 PM	Accession ID: B6	
Test	Results	Reference Range	Units
T4/TOSOH	B6	1 - 4.1	ug/dl

1/1

Cummings Veterinary Medical Center

Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://vetmed.tufts.edu/

Discharge Instructions

Patient	Owner		
Name: B6	Name:	В6	Patient ID: 426794
Species: Canine	Address:	B6	
Gold Female (Spayed) Golden Retriever Birthdate: B6	<u> </u>		
Attending Cardiologist: John E. Rush DVM, MS, DACVIM (Cardiology), DA	CVEOC	
B6			
Cardiology Resident:			
	36		
Cardiology Technician:			
B6			
Student: B6 ,V19			
Dake B6			
Diagnoses: Mild reduced contractile function, normal	cardiac size		
Clinical Findings: Thank you for bringing E size, but her contractile function is not quit also possible that this is an abnormality rel BNP test done when you take B6 in for h	e as vigorous a ated to having l	s some dogs. This could b been eating a grain free o	e a variation of normal for her, but it is liet. We recommend getting an NT-pro
Monitoring at Home: Please watch for any	y exercise intok	arance, weal oness, or colle	apse.
Diet Suggestions: We recommend continu grain-free.	ing to feed am	ain stream brand diet wi	th standard protein source that is not
Exercise Recommendations B6 can have	ve normal exerc	ise.	
Recheck Visits: We will want to do a reche	ck echocardiog	ram in 6-12 months (on t	he sooner side if B6 BNP is very high.)
Thank you for entrusting us with B6 caremail us at cardiovet@tults.edu for sched			
Please visit our HeartSmart website for mo http://vet.tufts.edu/heartsmart/	re information		

Prescription Refill Discloimer:

For the safety and well-being of our patients, your pet must have had an examination by one of our veterinarians within the past year in order to obtain prescription medications.

Ordering Food:

Please check with your primary veterinarian to purchase the recommended diet(s). If you wish to purchase your food from us, please call 7-10 days in advance (508-887-4629) to ensure the food is in stock. Alternatively, veterinary diets can be ordered from online retailers with a prescription/veterinary approval.

Clinical Trials:

Clinical trials are studies in which our veterinary doctors work with you and your pet to investigate a specific disease process or a promising new test or treatment. Please see our website: vet.tufts.edu/cvmc/clinical-studies

Case B6	Ourner B6	Discharge Instructions	
Labe DO	CARTES : Do	rena 8c seamme	

Cummings Veterinary Medical Center

Cardiology Liaison: 508-887-4696

Prior ATE? No

Cough? No

Prior arrhythmia? No

Monitoring respiratory rate and effort at home? No

B6

Patient ID: 426794 B6 Canine

B6 rears Old Female (Spayed) Golden Retriever

Gold

Cardiology Appointment Report

Date: 9/27/2018
Attending Cardiologist: John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC
B6
Cardiology Resident:
B6 Cardiology Technician:
B6
Student: B6 , V'19
<u>Presenting Complaint</u> : Check for DCM (has been on grain free diet)
Concurrent Diseases: none
General Medical History: B6 had been on a grain free diet at home, and another golden retriever of
owner's was low in taurine B6 taurine level was normal)- owner wants to make sure B6 does not
have DCM. No concerns at home.
Diet and Supplements:
Honest Kitchen (grain free), primal once a month, home cooked here and there (Old diet)
Now on Canine Natural, Bag of royal canin Golden retriever, zee wee peak
Omega 3 fatty acid oil
Eye drops- diclofenac for pigmentary uveitis
On heartworm preventative
Cardiovascular History:
Prior CHF diagnosis? No
Prior heart murmur? No

Shortness of breath or difficulty breathing? No Syncope or collapse? no Sudden onset lameness? no Exercise intolerance? no

Current Medications Pertinent to CV System: None

Cardiac Physical Examination:		
	B6	
Muscle condition: Normal Mildmuscleloss	☐ Moderate cachexia ☐ Marked cachexia	
Cardiovascular Physical Exam: Murmur Grade: None I/VI II/VI III/VI	IV/vi V/vi vi/vi	
Jugular vein: Bottom 1/3 of the neck Middle 1/3 of the neck	☐ 1/2 way up the neck ☐ Top 2/3 of the neck	
Arterial pulses: Weak Fair Good Strong	Bounding Pulse delicits Pulsus paradoxus Other:	
Arrhythmia: None Sinus arrhythmia Premature beats	■ Bradycardia ■ Tachycardia	
Gallop: ■ Yes M No ■ Intermittent	Pronounced Other:	
Pulmonary assessments: Eupneic Mild dyspnea Marked dyspnea Normal BV sounds	Pulmonary crackles Wheezes Upper airway stridor	
Abdominal exam: Normal Hepatomegaly	☐ Mild ascites ☐ Marked ascites	

<u>Problems</u> : Hx of grain free diet; apparently h		
	ealthy dog	
Diagnostic plan: Echocardiogram Chemistry profile ECG Renal profile Blood pressure	☐ Dialysis profile ☐ Thoracic radiographs ☐ NT-proBNP ☐ Troponin I ☐ Other tests:	
Echocardiogram Findings:		
	B6	
Mitral inflow:		
Summated Normal Delayed relaxation	Pseudonormal Restrictive	
ECG findings:		
NSR, HR 90 bpm		
Assessment and recommendations: Echocardiogram reveals mildly reduced cont wall thinning. It is possible that these mild ch age related change, or variation of normal fo	anges are related to diet, but ot	_
submitted for additional information. Given		r
submitted for additional information. Given		· · · · · · · · · · · · · · · · · · ·
submitted for additional information. Given final Diagnosis: Mildly reduced LV contractile function (r/o contractile function)	the possibility of a dietary associ	ation B6 ing
Finel Diegnosis:	the possibility of a dietary associ	ation B6 ing
Final Diagnosis: Mildly reduced LV contractile function (r/o contractile function) M-Mode IVSd	the possibility of a dietary associ	ation B6 ing
Final Diagnosis: Mildly reduced LV contractile function (r/o contractile function) M-Mode IVSd LVIDd	the possibility of a dietary associ	ation B6 ing mal} om
Final Diagnosis: Mildly reduced LV contractile function (r/o contractile function) M-Mode IVSd LVIDd LVPWd	the possibility of a dietary associ	ation B6 ing
Final Diagnosis: Mildly reduced LV contractile function (r/o contractile function) M-Mode IVSd LVIDd	the possibility of a dietary associ B6 ardiomyopathy v variation of nor	ation B6 ing mal) cm cm cm
Final Diagnosis: Mildly reduced LV contractile function (r/o compared to the contractile function) (r/o compared to the contractile function) (r/o compared to the contractile function) (r/o contractile function	the possibility of a dietary associ	ation B6 ing mal) cm cm cm cm cm cm
Final Diagnosis: Mildly reduced LV contractile function (r/o contractile function) M-Mode IVSd LVIDd LVPWd IVSs LVIDs LVPWs %FS	the possibility of a dietary associ B6 ardiomyopathy v variation of nor	ation B6 ing mal) cm cm cm cm cm cm
Final Diagnosis: Mildly reduced LV contractile function (r/o compared to the contractile function) (r/o compared to the contractile function) (r/o compared to the contractile function) (r/o contractile function	the possibility of a dietary associ B6 ardiomyopathy v variation of nor	ation B6 ing mal) cm cm cm cm cm cm
Final Diagnosis: Mildly reduced LV contractile function (r/o compared to the contractile function) (r/o compared to the contractile function) (r/o compared to the contractile function) (r/o contractile function	the possibility of a dietary associ B6 ardiomyopathy v variation of nor	ation B6 ing mal) cm cm cm cm cm cm cm cm

EPSS Max LA M-Mode Normalized IVSdN LVIDdN LVPWdN IVSsN LVIDsN LVPWsN Ao Diam N LA Diam N	B6 {0.29 - 0.52} {1.35 - 1.73} {0.33 - 0.53} {0.43 - 0.71}! {0.79 - 1.14} {0.53 - 0.78} {0.68 - 0.89} {0.64 - 0.90}	cm cm
2D Ao Diam IVSd LVIDd LVPWd EDV(Teich) IVSs LVIDs LVPWs ESV(Teich) EF(Teich) EF(Cube) %FS SV(Teich) LVID LAX LVEDV A-L LAX LVEDV MOD LAX LVIS LAX LVESV A-L LAX LVESV A-L LAX LVESV MOD LAX LVIS LAX LVESV MOD LAX SV A-L LAX LVEF MOD LAX SV A-L LAX SV MOD LAX SV MOD LAX SV MOD LAX SV MOD LAX CO A-L LAX CO MOD LAX CO MOD LAX SA LA	B6	on on on on on on on on on on on on on o
<u>Doppler</u> MV E Vel MV DecT MV Dec Slope MV A Vel		m/s ms m/s m/s

MV E/A Ratio
E'
E/E'
PV Vmax
PV maxPG
AV Vmax
AV maxPG

MV E/A Ratio
m/s
m/s
M/s
M/s
M/s
mmHg
mmHg

Amino Acid Laboratory Sample Submission Form

Amino Acid Laboratory
1089 Veterinary Medicine Drive

Davis, Ca 95616

Telephone: 530-752-5058,

Fax: 530-752-4698

Email: ucd.aminoacid.lab@ucdavis.edu

www.vetmed.ucdavis.edu/labs/amino-acid-laboratory

Veterinarian Con	tact: B	6		
Clinic/Company I	Name: _	В	6	
Address		R6	<u> </u>	
Email: _				
Telephone:	R6	Fax:	-	R6
Billing Contac	DU	Ema	il:	DU
Patient Name:	В6	Spec	cies: <u>Dag</u>	r
Breed: Golden	L Retriever		Owner's Nan	ne: B6
Current Diet : <u>/</u>	1-9 Naturals	, RC GR, 3ju	rjaak	<u> </u>
Sample type:				
Test: Taurine	Complete Amino	Acids Other: _		
Taurine Resu	•		ne:	Food:
	Plasma	(nMol/ml)	Whole Blo	od (nMol/ml)
	Normal Range	No known risk for deficiency	Normal Range	No known risk for deficiency
Cat	80-120	>40	300-600	>200
Dog	60-120	>40	200-350	>150

* Please send results to Vot. Thank you B6

B6

in addition to

^{*} Please note with the recent increase in the number of dogs screened for taurine deficiency, we are seeing dogs with values within the reference ranges (or above the "no known risk for deficiency range") yet are still exhibiting signs of cardiac disease. Veterinarians are welcome to contact our laboratory for assistance in evaluating your patient's results.

From:	Jones, Jennifer L
То:	Rotstein, David
CC:	Peloquin, Sarah
Sent:	B6 :42:56 PM
Subject:	FW: B6 - time sensitive
Importance:	High Constant Constant Constant of Constant of Constant of Constant Constant of Constant o
Attachments:	2063133-report - Copy.pdf; 2063133-report.pdf; 2063134-report - Copy.pdf; 2063134-report.pdf
Dave,	
I know we're chatting	Thursday about the results and next steps. B5
	B5
B5	what do you think?
Jen	
Jennifer Jones, DVM Veterinary Medical Offi Tel: 240-402-5421	
FDA U.S. FOOD & DRUG	
Sent: B6	<lisa.freeman@tufts.edu>2:30 PM <jennifer.jones@fda.hhs.gov> time sensitive</jennifer.jones@fda.hhs.gov></lisa.freeman@tufts.edu>
of at least 3 dogs in t	message but I just heard that B6 died suddenly (B6 This is one e household affected by DCM eating the same diet. We're actually scheduled to see the 3 evaluate a 4 th dog in the household that has an elevated BNP. So, this is a particularly
_	acted me and said the owner is bringing B6 in for cremation. He will ask if he can get e'd need to know what tissues to get, how to store them, etc.
Please let me know r Thanks Lisa	ext steps
Lisa M. Freeman, D\	1. PhD. DACVN
Board Certified Veter	
Professor	ary reactioning
Cummings School of	/eterinary Medicine
-	utrition Science and Policy
	slational Science Institute
Tufts University	
www.petfoodology.or	
508-887-4523	

From: Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u>> Sent: Tuesday, March 26, 2019 1:50 PM

To: Freeman, Lisa <Lisa.Freeman@tufts.edu>

Subject: RE: Cobalt

Hi Lisa.

We based this on the 25 mg/kg diet for chicks, rats, and sheep per Mineral Tolerances of Animals 2^{nd} Ed, 2005 (NRC). The cobalt in the products we tested was below 1 ppm.

Hope you're well,

Jen

Jennifer Jones, DVM Veterinary Medical Officer

Tel: 240-402-5421



From: Freeman, Lisa < Lisa.Freeman@tufts.edu > Sent: Saturday, March 23, 2019 11:43 AM

To: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov>

Subject: Cobalt

Hi Jen.

In the Feb, 2019 Vet-LIRN report, it states that cobalt was tested in the diets and was within normal nutrient ranges recommended by AAFCO. Since Co is not an essential nutrient listed in the AAFCO profiles, are you using the max of 10 ppm that is for all species from AAFCO (ie, the level that "will not impair animal performance and should not produce unsafe residues in human food derived from that animal"?

Thanks, Lisa

Lisa M. Freeman, DVM, PhD, DACVN
Board Certified Veterinary NutritionistTM
Professor
Cummings School of Veterinary Medicine
Friedman School of Nutrition Science and Policy
Tufts Clinical and Translational Science Institute
Tufts University
www.petfoodology.org