(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:** 2/25/2019 2:19:28 PM

Subject: DCM - More from L Freeman 2/25/2019 0915

Attachments: Acana lamb and apple dry: Lisa Freeman - EON-380747; Wellness Core grain-free ocean fish

dry-Wellness core grain free turkey: Lisa Freeman - EON-380742; Wellness CORE Grain-Free

Ocean Whitefish dry-Wellness Core grain free turkey: Lisa Freeman - EON-380743

Note: 380742 & 380743 are from the same household. Other dogs in household – 2 not tested yet & 1 normal

**BNP** 

From:

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





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

**Sent:** 2/25/2019 1:45:06 PM

**Subject:** Acana lamb and apple dry: Lisa Freeman - EON-380747

Attachments: 2063136-report.pdf; 2063136-attachments.zip

A PFR Report has been received and PFR Event [EON-380747] has been created in the EON System.

A "PDF" report by name "2063136-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 "2063136-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-380747

ICSR #: 2063136

EON Title: PFR Event created for Acana lamb and apple dry; 2063136

AE Date	01/22/2019	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	Spaniel - Cocker English		
Age	5 Years		
District Involved	PFR-New England DO		

#### **Product information**

**Individual Case Safety Report Number: 2063136** 

Product Group: Pet Food

Product Name: Acana lamb and apple dry

**Description:** At ortho recheck 1/22/19, new murmur was noted to cardio consult performed. DCM identified. Dog eating BEG diet. Recommended diet change but owner has major concerns about dietary components triggering seizures. Enrolled in our DCM study and dog completed baseline measurements but then owner elected to withdraw from study. Unclear what she will do in terms of diet change. I have not provided owner contact information. If you wish to contact owner, please let me know and I can ask if ok to do so.

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
Acana lamb and apple dry		

#### Sender information

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

To view this PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-380747

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

 $\underline{https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none\&e=0\&issueType=12\&issueId=397756$ 

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Report Details - EON-	380747				
ICSR:	2063136				
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:	2019-02-25 08:34:16 EST				
Reported Problem:	Problem Description:	DCM identified. Dog major concerns abou DCM study and dog withdraw from study.	2/19, new murmur was noted to cardio consult performed. eating BEG diet. Recommended diet change but owner has at dietary components triggering seizures. Enrolled in our completed baseline measurements but then owner elected to Unclear what she will do in terms of diet change. I have not act information. If you wish to contact owner, please let me f ok to do so.		
	Date Problem Started:	01/22/2019			
	Concurrent Medical Problem:	Yes			
	Pre Existing Conditions:	B6			
	Outcome to Date:	Stable			
Product Information:	Product Name:	Acana lamb and app	ile dry		
	Product Type:				
	Lot Number:				
	Product Use Information:	Description: Please see diet history			
	Manufacturer /Distributor Information:				
	Purchase Location				
Animal Information:	Information:	B6			
		1			
	Type Of Species:	Spaniel - Cocker Eng	nlish		
	Gender:		yioii		
	Reproductive Status:				
	i	15.8 Kilogram			
		5 Years			
	Assessment of Prior Health:				
	Number of Animals Given the Product:	1			
	Number of Animals	1			
	Reacted: Owner Information:		3.1		
	Owner Information:	Owner Information provided:	No		
	Healthcare Professional	Practice Name:	Tufts Cummings School of Veterinary Medicine		
	Information:	Contact:	T		
		Contact:			
			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:				
	Attachment:	rpt_medical_record_	preview.pdf	
Descriptio				
	Туре:	Medical Records		
Attachment:		discharge 1-22-19.pdf		
	Description		-	
	Туре:	Other		
	Attachment:	cardio report 1-22-19	P.pdf	
	Description:		9	
	Type:	Echocardiogram		

# Cummings Veterinary Medical Center AT TUFTS UNIVERSITY Cardiology Liaison: 508-887-4696

**B6** 

Patient ID B6 B6 Canine

B6 Years Old Male (Neutered) English

Cocker Spaniel

Red/White BW: Weight (kg) 15.80

# Cardiology Consultation ENROLLED IN DCM STUDY

Date: 1/22/2019
Weight: Weight (kg) 15.80
Requesting Clinician: B6 DVM, MS, DACVS LA, DACVS SA
Attending Cardiologist
☐ John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC
<b>B6</b>
Cardiology Resident:
B6
Thoracic radiographs available for review?  Per - in SS
✓ Yes - in PACS (from B6 )
□ No
Patient location: B ward
Presenting complaint and important concurrent diseases:
<b>B6</b>
B6
БО
Current medications and doses:
<b>B6</b>
At-home diet: (name, form, amount, frequency)
Key indication for consultation: Murmur, left apex, 2-3/6
reg member on continuent manna, en eper, 2-3/9

#### Questions to be answered:

New heart murmur heard on physical exam today. Safe to sedate for radiographs?

Yes (explain): radiographs tod	, anesthesia today, owner waiting, trying to get biopsy toda; lay
□ No	
*STOP - remain	nder of form to be filled out by Cardiology*
Physical Examination	
	<b>B6</b>
Muscle condition:	
Normal	Moderate cachexia
Mild muscle loss	Marked cachexia
Cardiovascular Physical Exam	
Murmur Grade:	
None	□ IV/VI
<u> </u>	□ v/vi □
☑ II/VI □ III/VI	■ VI/VI
Murmur location/description: Left ap	oical/mid cardiac systolic
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:	_
Weak	Bounding
□ Fair	Pulse deficits
Good	Pulsus paradoxus
☐ Strong	Other (describe):
Arrhythmia:  None	
™ None  Sinusarrhythmia	■ Bradycardia ■ Tachycardia
Premature beats	— ratnytarula
Gallop:	
□ Yes	Pronounced
₩ No	Cther:
Intermittent	
Pulmonary assessments:	
Eupneic	Pulmonary Cradkles
Mild dyspnea	Wheezes
Marked dyspnea	Upper airway stridor
Mormal BV sounds	Other auscultatory findings:

Abdominal exam:

☑ Normal ☑ Hepatomegaly	<ul><li>Abdominal distension</li><li>Mild ascites</li></ul>	
	<b>B6</b>	
lamb/grain free diet, we would reco	: (in) with no IA enlargement. Given that the patient is mmend changing to a regular commercial diet. No m s enrolled in the DCM diet study. Recheck echocardic B6	edications are
B6		
Final Diagnosis: Asymptomatic DCM		
Heart Failure Classification Score: ISACHC Classification:		
□ la	■ Illa	
	□ IIIb	
□ <sub>  </sub>		
ACVIM CHF Classification:		
A .	<u> </u>	
■ B1 ■ B2	■ D	

M-Mode	[	
IVSd		cm
LVIDd		cm
LVPWd		cm
IVSs		cm
LVIDs		cm
LVPWs		cm
EDV(Teich)		ml
ESV(Teich)	<b>B6</b>	ml
EF(Teich)	DU	%
%FS		%
SV(Teich)		ml
Ao Diam		cm
LA Diam		cm
LA/Ao		
Max LA		cm
EPSS		cm
	L	
M-Mode Normalized		
IVSdN		(0.290 - 0.520)
LVIDdN		(1.350 - 1.730)
LVPWdN		(0.330 - 0.530)
IVSsN		(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)
	<u>L</u>	(e.b.ie eesee)
2D		
SALA		cm
Ao Diam		om
SA LA / Ao Diam		<del></del>
IVSd		cm
LVIDd		om .
LVPWd		om
EDV(Teich)		mi
IVSs		
LVIDs		om om
LVPWs	<b>B6</b>	om Om
	<b>D</b> 0	om !
ESV(Teich)		ml ~
EF(Teich)		% ~
%FS		%
SV(Teich)		ml
LVId IAX		cm
LVAd LAX		om.
LVEDV A-L LAX		ml
LVEDV MOD LAX		ml
LVIs LAX		cm

В6	om mi mi BPM % %
	ml ml Vmin Vmin
	m/s ms m/s m/s
<b>B</b> 6	m/s m/s m/s m/s mmHg m/s

PV maxPG

mmHg

# 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/

Patient Name: Signalment:  Patient ID: Contact Clinician: Alternale Clinician:	B6 B6 Years Old Red/White (Neutered) English Cockers Spaniel B6 B6 DMM, MS, DALA, DACYS SA	<b>T</b>	<b>B6</b>	
Student:	B6 V19	E-EXAMINATION	FORM	
Date: 1/22/2019 Problem: 86 Reched History: Thank you for bringing	, B6 crays  B6 to the Tufts Orthope	dir Syrapy Corvins for	prherk radioarachs (s.cs	esi B6
B6		6 presented to the To	rits ERon	731 36 <b>Pelvi</b> c
radiographs showed B6 B6 Inden	<b>vent surgery on</b> B6	e recar hi	B6	
		· · · · · · · · · · · · · · · · · · ·	,	·
You report that he is doin managed by (	g well at home, and is star	nding up and walking we B6	ell. B6 also has a hist	ery o B6 anhich is
<u> </u>				
Physical Examination:				
		B	3	
Cardiology found that E in large and giant breed of enlargement of the upper especially diets that are go evaluation, we recommen any medications for his how We also recommend star	ult with our Cardiology de 36 ) has a primary heart n logs, and is characterized l r chambers of the heart. T rain-free or contain exotion nd switching B6 liet eart disease; however we	nusde disease called dis by thinning of the walls of his disease can be attrib ingredients. Based on ; some recommendatio recommend rechecking upplement, which may	ated cardiomyopathy (DX of the heart, reduced card uted to several factors; o B6 current diet and ns are listed below. At th an educardiogram (ultra	being sedated for radiographs.  2M). This disease is more common diac pump function, and one potiental cause of DCM is diet, the findings of his cardiology is time 186 does not require sound of the heart) in 3 months. So have elected to enrol 186

B6 The radiology report on
B6 The radiology report on B6 vrays is still pending. Based off of a preliminary examination of the radiographs, B6 appears to be healing well from
surgery. We will contact you with the results of the radiographs when we receive them.
Today we also due blood to check B6 B6 Bevel. His level today was B6 which is higher than his previous level, b within the reference range.
Medications:
1. Taurine supplement 500mg capsules: Give 1 capsule by mouth every 12 hours.
Hame instructions:
<ol> <li>Adivity Restiction: Since B6 radiographs look good we can begin to loosen his exercise restrictions. Since B6</li> </ol>
had decreased activity for the past few weeks, we want to gradually build up his exercise tolerance. You can gradually
increase the length of his walks by 5 minutes every two weeks, until his next recheck.
<ol><li>Diet: The FDA is currently investigating an apparent association between diet and dilated cardiomyopathy. The exact cause is still unclear, but it appears to be associated with boutique diets and those containing exotic ingredient or are</li></ol>
grain-free. Therefore, we are currently recommending that dogs do not eat these types of diets. We recommend switch  B6 to commercial diet made by a well-established company that is not grain-free and does not contain any exc
ingredients, such as kangaroo, duck, lamb, venison, lentils, peas, beans, buffalo, tapioca, barley, and chickpeas. Th
FDA issued a statement regarding this issue
(https://www.fda.gov/AnimalVeterinary/NewsEvents/CVMUpdates/uom613305.htm) and a recent article published by D
Lisa Freeman on the Cummings School's Petfoodology blog can further explain these findings
(http://vetnutrition.tufts.edu/2018/06/a-broken-heart-risk-of-heart-disease-in-boutique-or-grain-free-diets-and-exotic-in
<u>dients/</u> ).
Our nutritionists have compiled a list of dog foods that are good options for dogs with heart disease.
<u>Dry Food Options:</u>
Royal Canin Early Cardiac (veterinary diet)
Royal Canin Boxer
<ul> <li>Purina Pro Plan Adult Weight Management</li> </ul>
<ul> <li>Purina Pro Plan Bright Mind Adult Small Breed Formula</li> </ul>
Canned Food Options:
<ul> <li>Hill's Science Diet Adult Beef and Barley Entree</li> </ul>
<ul> <li>Hill's Science Diet Adult 1-6 Healthy Quisine Roasted Chicken, Carrot, and Spinach Stew</li> </ul>
Royal Carrin Mature 8+
If your dog has special nutritional needs or requires a homecooked diet, we recommend you schedule an appointment wit our nutritionists (508-887-4 <i>6</i> 96).
We would like to see B6 back for a surgery recheck in 6 weeks. Please contact the Surgery Liaison at (508) 887-4794 to arrange your next appointment. If you have any problems or questions, please contact B6 DAM, MS, DACYS LA, DACYS SA as a possible. If it is an emergency, contact the emergency service at (508) 887-4623.
We have scheduled a recheck for B6 with our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service on Tuesday, 4/23/19 at 11:30am. Please contact our Cardiology service our
You can schedule an appointment with our Nutrition service by calling 508-887-4696.
Prescriptivo Refil Dischriner:
For the sofety and well-being of our potients, your pet must have had an examination by one of our veterinarions within the post year in
order to obtain prescription medications.

#### Ordering Food:

Please check with your primary veterinarion 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 stack. Alternatively, veterinary diets can be ordered from online retailers with a

#### prescription/veterinory opproval.

#### 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/ovnoc/clinical-studies</u>

Came B6	Owner B6	Discharge Instructions	Π

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

**Sent:** 2/25/2019 12:52:56 PM

Subject: Wellness Core grain-free ocean fish dry-Wellness core grain free turkey: Lisa

Freeman - EON-380742

Attachments: 2063133-report.pdf; 2063133-attachments.zip

A PFR Report has been received and PFR Event [EON-380742] has been created in the EON System.

A "PDF" report by name "2063133-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 "2063133-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-380742

ICSR #: 2063133

**EON Title:** PFR Event created for Wellness Core grain-free ocean fish dry Wellness core grain free turkey chicken liver & turkey liver canned Wellness Hearty Cuts grain-free in gravy chicken and turkey recipe; 2063133

AE Date	01/15/2019	Number Fed/Exposed	6
Best By Date		Number Reacted	3
Animal Species	Dog	Outcome to Date	Stable
Breed	Bulldog		
Age	8.5 Years		
District Involved	PFR-New England DO		

#### **Product information**

**Individual Case Safety Report Number: 2063133** 

Product Group: Pet Food

Product Name: Wellness Core grain-free ocean fish dry Wellness core grain free turkey, chicken liver & turkey

liver canned Wellness Hearty Cuts grain-free in gravy chicken and turkey recipe

**Description:** DCM and CHF diagnosed 1/15/19 Eating BEG diet. 6 dogs being fed this diet - so far, 3 have been diagnosed with DCM/ARVC. One other had a normal NT-proBNP and 2 others will be tested Diet has been changed to Royal Canin Early Cardiac and we will recheck in 3 months. I have sample of dry and canned food

**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:** 6 **Number of Animals Reacted With Product:** 3

Product Name	Lot Number or ID	Best By Date
Wellness Core grain-free ocean fish dry Wellness core grain free turkey, chicken liver & turkey liver canned Wellness Hearty Cuts grain-free in gravy chicken and turkey recipe		

## **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: <a href="https://eon.fda.gov/eon//browse/EON-380742">https://eon.fda.gov/eon//browse/EON-380742</a>

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

 $\underline{https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none\&e=0\&issueType=12\&issueId=397751$ 

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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:	2063133			
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:	2019-02-25 07:43:42 EST			
Reported Problem:	Problem Description:	far, 3 have been diag proBNP and 2 others	nosed 1/15/19 Eating BEG diet. 6 dogs being fed this diet - so gnosed with DCM/ARVC. One other had a normal NT- s will be tested Diet has been changed to Royal Canin Early recheck in 3 months. I have sample of dry and canned food	
	Date Problem Started:	01/15/2019		
	Concurrent Medical Problem:	Yes		
	Pre Existing Conditions:	B6		
	Outcome to Date:			
Product Information:	Product Name:		-free ocean fish dry Wellness core grain free turkey, chicken inned Wellness Hearty Cuts grain-free in gravy chicken and	
	Product Type:	Pet Food		
	Lot Number:			
	Product Use Information:	Description:	Please see diet history	
	Manufacturer /Distributor Information:			
	Purchase Location Information:			
Animal Information:	Name:	B6		
Ammar imormation:	Type Of Species:	i		
	Type Of Breed:			
	Gender:			
	Reproductive Status:			
	2	19.8 Kilogram		
	3 }	8.5 Years		
	Number of Animals Given the Product:	6		
	Number of Animals Reacted:	3		
	Owner Information:	Owner Information provided:	Yes	
		Contact:	Name:	
			Phone: <b>B6</b>	
			Email:	
		Address:		
			B6	
			<b>DV</b>	
			United States	
	Healthcare Professional	n 4 N		
	Information:	Practice Name:	Tufts Cummings School of Veterinary Medicine	
		Contact:		
			Phone: (508) 887-4523	
			Email: lisa.freeman@tufts.edu	

Name:   Lisa Freeman   200 Westboro Rd   North Grafton   Massachusetts   01536   United States   Phone:   5088874523   Email:   lisa.freeman@tufts.edu   Permission To Contact Sender:   Preferred Method Of Contact:   Preferred Method Of Contact:			Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States
North Grafton   Massachusetts   01536   United States	Sender Information:	Name:	Lisa Freeman	
Email:   lisa.freeman@tufts.edu   Permission To Contact Sender:   Preferred Method Of Contact:   Email     Additional Documents:   Attachment:   rpt_medical_record_preview.pdf   Description:   Med records		Address:	North Grafton Massachusetts 01536	
Permission To Contact Sender: Preferred Method Of Contact:  Additional Documents:  Attachment: rpt_medical_record_preview.pdf Description: Med records		Contact:	Phone:	5088874523
Sender: Preferred Method Of Contact:  Additional Documents:  Attachment: rpt_medical_record_preview.pdf Description: Med records			Email:	lisa.freeman@tufts.edu
Additional Documents:  Attachment: rpt_medical_record_preview.pdf Description: Med records			Yes	
Attachment: rpt_medical_record_preview.pdf  Description: Med records			Email	
Description: Med records	Additional Documents:			
		Attachment:	rpt_medical_record_	preview.pdf
Type: Medical Records		Description:	Med records	
		Type:	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:	D	6	Patient: <b>B6</b>		
Address:	В	0	Breed: English Bulldog	Species:	
	i 		DOB: <b>B6</b>	Sex:	Female (Spayed)
					(Spayed)
	Home Phone: Work Phone: (	B6			
	Cell Phone:	B6			
	L				
Referring	Information				
			DC		
Ĺ			B6	j	
Client:	<b>B6</b>				
Patient:	<b>D</b> 0				
Initial Comp	olaint:				
Emergency	<u> </u>				
0 ,					
SOAP Text	B6 9:3	31PM - B6			
Subjective					
NEW VISIT (	ER)				
· · · · · · · · · · · · · · · · · · ·	,,				
Doctor:	В6				
Student:		<sub>1</sub>			
Presenting of		36			
Referral visi		ļ			
Diagnostics	completed prior	r to visit	B6		
LUCTORY					
HISTORY:					
Signalmont:	: 8 yo SF English	Pulldog			
Current hist	-	bulldog			
	•	d her laving and trem	nbling with shallow and rapid brea	thing Owner also notice	d that she
	· ·	. =	preciated it before today. Went to	<del>-</del>	
		1000	sease. No recent vomiting or diarri	7 <del>-1</del>	
	no concerns.	, a		,	
Prior medic	al history; B6	otherwise healthy	/		
Current me	dications:	B6 once daily	in PM, had tonight		
		wet and dry, grain fr			

Client: Patient:

**B6** 

**B6** 

C/V: no murmur or arrythmia ausculated, difficult to appreciate over increased lung sounds, femoral pulses strong and synchronous

**B6** 

**ASSESSMENT:** 

A1: Dyspnea-- open for pnuemonia vs CHF vs non cardiogenic pulmonary edema vs other

PLAN:

**B6** 

Treatments:

**B6** 

Diagnostics completed:

**B6** 

Client: Patient: B6	
Chemistry	
B6 Client communication:	
Confirmed history with owner. Discussed that no apparent murmur and significant structural changes on TFAST, but cannot rule out heart as underlying process. Also concern for pneumonia at this time. Recommended hospitalization for supportive care, O2, diagnostics, cardio consultation and repeat imaging as indicated. O ok with plan.	
Deposit & estimate status: <b>B6</b>	
Resuscitation code (if admitting to ICU) B6	
SOAP approved (DVM to sign): B6 DVM	
SOAP Text Jan 16 2019 8:38AM - B6	_
SIGNALMENT: 8yo FS English Bulldog	
PRESENTING COMPLAINT: dyspnea	
Presented of <b>B6</b> after 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 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 nome with no concerns.	
Prior medical history: B6 otherwise healthy Current medications: B6 once daily in PM, had tonight Diet: Core Wellness, mix of wet and dry, grain free diet	
On presentation, P was dyspneic and tachycardic. rDVM rads unable to be assessed as CHF vs. pneumonia, so placed in O2 on Unasyn overnight with bloodwork pulled for CBC/Chem and nt-proBNP. Minimal improvement overnight with persistent tachycardia, but excellent appetite and good spirits.	
SUBJECTIVE:	
<b>B6</b>	
C/V: tachycardic with no murmurs or arrhythmias on auscultation. fair pulse quality with pink injected mm and CRT Isec	
<b>B6</b>	

**RECTAL: NP** 

#### ASSESSMENT:

A1: Dyspnea-- open for pnuemonia vs CHF vs non cardiogenic pulmonary edema vs other

PLAN:

**B6** 

Diagnostics completed:

**B6** 

CXR: - 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.

Cardio Consult: DCM, suspect early CHF - add pimobendan and B6 q8

Diagnostics pending:

**B6** 

Deposit & estimate status

B6

Resuscitation code (if admitting to ICU):

**B6** 

B6 DVN

DVM (ECC Resident)

SOAP Text Jan 17 2019 7:43AM - Clinician, Unassigned FHSA

#### **HISTORY:**

**B6** is an 8.5 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:	R6
Patient:	<b>D</b> 0

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.

Overnight, P had normal vitals, with RR 24-36 with no to mild effort in O2 cage. Walked well outside of O2 cage, but at 3:45am after a walk was trembling and anxious in the cage, was given trazodone and calmed after. Excellent appetite this morning. Has received 3 doses of **B6** so far since **B6** 

#### **Subjective**

BAR, euhydrated, MM pink moist, CRT <2

## <u>Objective</u>

**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 heawrt beat. Normal BVS bilateral

В6

**Diagnostics completed:** 

**B6** 

CXR: - 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.

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

### **Diagnostics pending:**

**BNP** 

	:
Client:	R6
Patient:	DO

Troponin Taurine

# Assessment (A)

A1: Dyspnea- suspect DCM and early CHF vs less likely pneumonia vs neoplasia

A1. Dyspited Suspect Delvi and earry erri vs less likely prieditionia vs neoplasia
Plan (P)
<b>B6</b>
SOAP completed by: B6 V19 SOAP reviewed by: B6 DVM
Addendum:
<b>B6</b>
SOAP Text Jan 18 2019 7:28AM - B6
HISTORY:  B6 is an 8.5 yo FS English Bulldog that presented o 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. N 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 Unasyn overnight with bloodwork pulled for CBC/Chem and nt-proBNP. Minimal improvement overnight on 1/16 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 <u>B6</u> to TID, and restarted <u>B6</u> 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.
<u>Subjective</u>
<b>B6</b>

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B6

Client: B6	
AP completed by: B6 V19 AP reviewed by: B6 DVM	
dendum:	
B6 sposition/Recommendations	

# Cummings Veterinary Medical Center

#### AT TUFTS UNIVERSITY

Lab Results Report

Client:	В6
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:	English Bulldog
Sex:	Female (Spayed)
Age:	B6 Years Old

CBC, Comprehensive, Sm Animal	B6 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)	B6	31.9 - 34.3	g/dL
RDW (ADVIA)		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/uL

CBC, Comprehensive, Sm Animal	B6 11:21:26 PM	Accession ID: B6	
Test	Results	Reference Range	Units
GLUCOSE		67 - 135	mg/dL
UREA		8 - 30	mg/dL
CREATININE	<b>D</b> 0	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
	li		

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**B6** 

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stringsoft		11/47	В	
		11/47	B6	
X (POC)			3.6 - 4.8	mmol/L
VA (POC)			140 - 154	mmol/L
B (POC)	B6		12.6 - 16	g/dL
ICT (POC)			38 - 48	%
SO2%	70.000		94 - 100	%
Cest	Results	!	Reference Range	Units
CBC, Comprehensive, Sm Animal	В6	11:22:25 PM	Accession ID: B6	
POIKILOCYTOSIS			0 - 0	
RBC MORPHOLOGY	į		0 - 0	
Occasional reactive lymphocytes				
VBC MORPHOLOGY			0 - 0	
MONOS (ABS)ADVIA		U	0.1 - 1.5	K/uL
YMPHS (ABS)ADVIA		6	1 - 4.8	K/uL
EGS (AB)ADVIA			2.8 - 11.5	K/ul
MONOS%			1 - 15	%
YMPHS%			7 - 47	%
EGS%			43 - 86	%
est	Results		Reference Range	Units
CBC, Comprehensive, Sm Animal	В6	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
K			22 - 422	U/L
ST			9 - 54	U/L
LT			14 - 86	U/L
GT			0 - 10	U/L
LK PHOS			12 - 127	U/L
BILIRUBIN		U	0.1 - 0.3	mg/dL
JA/K		6	29 - 40	
AGAP			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
		į	5.5 - 7.8	g/dL

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Patient: <b>B6</b>				
CL(POC)			109 - 120	mmol/L
CA (ionized)			1.17 - 1.38	mmol/L
MG (POC)	İ		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
TCO2 (POC)			0 - 0	mmol/L
nCA	İ		0 - 0	mmol/L
nMG			0 - 0	mmol/L
GAP			0 - 0	mmol/L
CA/MG	B	h	0 - 0	mol/mol
BEecf		•	0 - 0	mmol/L
BEb			0 - 0	mmol/L
A			0 - 0	mmHg
NOVA SAMPLE			0 - 0	-
FiO2			0 - 0	%
PCO2			36 - 44	mmHg
PO2			80 - 100	mmHg
PH	į		7.337 - 7.467	
PCO2			36 - 44 mmHg	
PO2			80 - 100	mmHg
HCO3			18 - 24	mmol/L
CBC, Comprehensive, Sm Animal	В6	1:28:40 PM	Accession ID: B6	
Test	Results		Reference Range	Units
TS (FHSA)			0 - 0	g/dl
PCV **	B6		0 - 0	%
TS (FHSA)			0 - 0	g/dl
CBC, Comprehensive, Sm Animal	B6	1:43:18 PM	Accession ID: B6	
est	T) 1.		Dafaman an Daman	I Inita
	Results		Reference Range	Units
GLUCOSE	Results		67 - 135	mg/dL
GLUCOSE JREA	Results		67 - 135 8 - 30	mg/dL mg/dL
GLUCOSE JREA CREATININE	Results		67 - 135 8 - 30 0.6 - 2	mg/dL mg/dL mg/dL
GLUCOSE JREA CREATININE PHOSPHORUS	Results		67 - 135 8 - 30 0.6 - 2 2.6 - 7.2	mg/dL mg/dL mg/dL mg/dL
GLUCOSE JREA CREATININE PHOSPHORUS CALCIUM2			67 - 135 8 - 30 0.6 - 2 2.6 - 7.2 9.4 - 11.3	mg/dL mg/dL mg/dL mg/dL mg/dL
GLUCOSE JREA CREATININE PHOSPHORUS CALCIUM2 T. PROTEIN	B6		67 - 135 8 - 30 0.6 - 2 2.6 - 7.2 9.4 - 11.3 5.5 - 7.8	mg/dL mg/dL mg/dL mg/dL mg/dL g/dL
GLUCOSE  JREA  CREATININE  PHOSPHORUS  CALCIUM2  T. PROTEIN  ALBUMIN			67 - 135 8 - 30 0.6 - 2 2.6 - 7.2 9.4 - 11.3 5.5 - 7.8 2.8 - 4	mg/dL mg/dL mg/dL mg/dL mg/dL g/dL g/dL
GLUCOSE  JREA  CREATININE PHOSPHORUS  CALCIUM2  C. PROTEIN  ALBUMIN  GLOBULINS			67 - 135 8 - 30 0.6 - 2 2.6 - 7.2 9.4 - 11.3 5.5 - 7.8 2.8 - 4 2.3 - 4.2	mg/dL mg/dL mg/dL mg/dL mg/dL g/dL
GLUCOSE  JREA  CREATININE  PHOSPHORUS  CALCIUM2  C. PROTEIN  ALBUMIN  GLOBULINS  A/G RATIO			67 - 135 8 - 30 0.6 - 2 2.6 - 7.2 9.4 - 11.3 5.5 - 7.8 2.8 - 4 2.3 - 4.2 0.7 - 1.6	mg/dL mg/dL mg/dL mg/dL mg/dL g/dL g/dL g/dL
GLUCOSE  JREA  CREATININE  PHOSPHORUS  CALCIUM2  T. PROTEIN  ALBUMIN  GLOBULINS  A/G RATIO			67 - 135 8 - 30 0.6 - 2 2.6 - 7.2 9.4 - 11.3 5.5 - 7.8 2.8 - 4 2.3 - 4.2	mg/dL mg/dL mg/dL mg/dL mg/dL g/dL g/dL
GLUCOSE JREA CREATININE		12/47	67 - 135 8 - 30 0.6 - 2 2.6 - 7.2 9.4 - 11.3 5.5 - 7.8 2.8 - 4 2.3 - 4.2 0.7 - 1.6	mg/dL mg/dL mg/dL mg/dL mg/dL g/dL g/dL g/dL

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Test TS (FHSA) PCV **	Results <b>B6</b>		0 - 0 0 - 0	g/dl %
Test	Results			
15 <del>19</del> 11 0	The state of the s		Reference Range	Units
CBC, Comprehensive, Sm Animal	В6	10:20:57 AM	Accession ID: B6	
COMMENTS (CHEMISTRY)	L		0 - 0	
OSMOLALITY (CALCULATED)			291 - 315	mmol/L
CHOLESTEROL			82 - 355	mg/dL
AST			9 - 54	U/L
ALT			14 - 86	U/L
ALK PHOS			12 - 127	U/L
T BILIRUBIN			0.1 - 0.3	mg/dL
NA/K			29 - 40	
POTASSIUM			3.7 - 5.4	mEq/L
CHLORIDE		U	106 - 116	mEq/L
SODIUM	H	6	140 - 150	mEq/L
A/G RATIO			0.7 - 1.6	
GLOBULINS			2.3 - 4.2	g/dL
ALBUMIN			2.8 - 4	g/dL
T. PROTEIN			5.5 - 7.8	g/dL
CALCIUM2			9.4 - 11.3	mg/dL
PHOSPHORUS			2.6 - 7.2	mg/dL
CREATININE			0.6 - 2	mg/dL
UREA			8 - 30	mg/dL
GLUCOSE			67 - 135	mg/dL
Test	Results		Reference Range	Units
CBC, Comprehensive, Sm Animal	В6	9:46:19 AM	Accession ID: B6	
TS (FHSA)			0 - 0	g/dl
PCV **	B6		0 - 0	%
TS (FHSA)			0 - 0	g/dl
Test	Results	<del></del>	Reference Range	Units
CBC, Comprehensive, Sm Animal	В6	3:44:46 PM	Accession ID: B6	
OSMOLALITY (CALCULATED)			291 - 315	mmol/L
CHOLESTEROL			82 - 355	mg/dL
AST			9 - 54	U/L
ALT			14 - 86	U/L
ALK PHOS	B6		12 - 127	U/L
T BILIRUBIN			0.1 - 0.3	mg/dL
NA/K			29 - 40	
POTASSIUM			3.7 - 5.4	mEq/L
DOM A GOLL D. C.			106 - 116	mEq/L

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Client: **B6** 

TS (FHSA) **B6** 0 - 0 g/dl

**14/47 B6** 

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## Vitals Results

5:41:14 PM	Heart Rate (/min)	
5:41:15 PM	Respiratory Rate	
5:41:16 PM	Temperature (F)	
5:41:17 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	
D6 7:35:59 AM	FiO2 (%)	<b>B6</b>
<b>B6</b> 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)	
1:03:52 AM	Respiratory Rate	
12:50:07 PM	Lasix treatment note	
1:10:1 <b>3</b> 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	-20:0000

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Client: **B6** 

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 (%)	
D	11:49:58 PM	Respiratory Rate	<b>B6</b>
B	<b>O</b> 1:55:25 AM	Respiratory Rate	
	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	
	5:11:40 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	

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Client: Patient: **B6** 

# **Vitals 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	
<b>D</b>	8:01:23 PM	Lasix treatment note	<b>B6</b>
<b>B</b> 6	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	
<u> </u>	3:43:47 AM	Eliminations	
	4:50:44 AM	Respiratory Rate	
L	_J4:52:32 AM	Nursing note	<u> </u>

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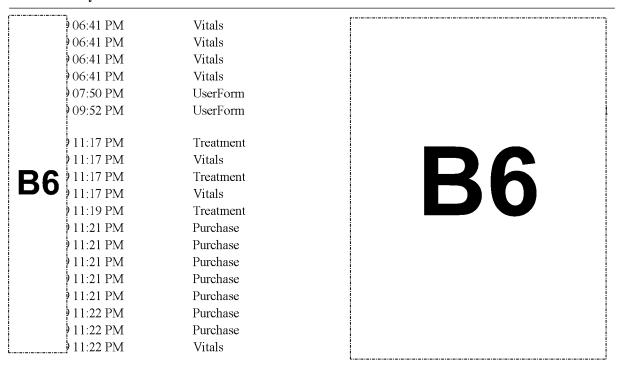
Client:
Patient

**B6** 

#### 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	<b>B6</b>
B	9:50:04 AM	Catheter Assessment	
	9:50:22 AM	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	
<u> </u>	4:02:34 PM	Respiratory Rate	

#### **Patient History**



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**B6** 

Patient History		
11:22 PM	Purchase	
11:22 PM	Purchase	
11:25 PM	Treatment	
11:26 PM	Treatment	
11:26 PM	Vitals	
11:26 PM	Treatment	
11:28 PM	Labwork	
12:50 AM	Treatment	
12:53 AM	Treatment	
	_	
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	
02:50 AM 02:57 AM	Treatment	
— - 02:57 AM	Vitals	
<b>B6</b> 05:07 AM	Treatment	<b>B6</b>
05:07 AM	Vitals	
07:34 AM	Treatment	
07:34 AM	Treatment	
07:34 AM	Vitals	
07:35 AM	Treatment	
07.25 AM	Vitala	
07:35 AM 07:37 AM	Vitals Treatment	
07:37 AM	Vitals	
07:37 AM 07:37 AM	Treatment	
U1.51 AIVI	Heatinent	
07:37 AM	Vitals	
07:46 AM	Treatment	
07:46 AM	Vitals	
07:46 AM	Treatment	
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**B6** 

#### **Patient History**

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05:15 PM	Purchase	
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07.041101	Treatment	
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07:04 PM	Treatment	
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07:06 PM	Treatment	
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57:46 PM	Treatment	
57:46 PM	Vitals	
58:31 PM	Treatment	
98:55 PM	Vitals	
28:55 PM	Vitals	
99:53 PM	Treatment	
99:53 PM	Vitals	
11:07 PM	Purchase	
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**B6** 

#### **Patient History**

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07:20 AM	Treatment	
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07:33 AM	Treatment	
07:33 AM	Vitals	
08:01 AM	Treatment	
08:01 AM	Vitals	

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**B6** 

#### **Patient History**

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08:46 AM	Purchase	
09:32 AM	Treatment	
09:32 AM	Vitals	
09:46 AM	Purchase	
10:50 AM	Purchase	
10:51 AM	Treatment	
11:05 AM	Purchase	
11:16 AM	Treatment	i
11:16 AM	Vitals	
12:41 PM	Treatment	
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12:43 PM	Treatment	
12:46 PM	Treatment	
01:43 PM	Purchase	
01:52 PM	Treatment	
01:52 PM	Vitals	
03:03 PM	Treatment	
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	Vitals	
03:03 PM	Treatment	
03:03 PM	Vitals	
03:40 PM	Vitals	
03:46 PM	Labwork	
03:50 PM	Treatment	
03:53 PM	Prescription	
03:55 PM	Treatment	
03:55 PM	Vitals	
05:04 PM	Treatment	
05:04 PM	Vitals	
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**B6** 

#### **Patient History**

[	06:52 PM	Treatment	
	06:52 PM	Vitals	
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	07:27 PM	Treatment	
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**B6** 

#### **Patient History**

03:35 AM	Treatment	
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11:05 AM	Purchase	
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11:48 AM	Purchase	
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12:00 PM	Treatment	
12:00 PM	Vitals	

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Client:
Patient:

**B6** 

#### **Patient History**

2:00 PM	Treatment	
2:00 PM	Vitals	
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B6 Female (Spayed)
Canine English Bulldog Brown/White
Patient ID: B6

#### 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.

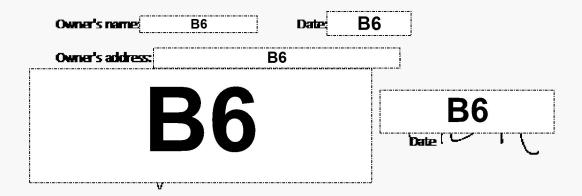
I hereby grant to the Cummings School of Veterinary Medicine at Tuffs University, its officers and employees (collectively referred to herein as Cummings School), and its agents and assigns (the Grantees) the irrevocable rights to photograph / videotape the operation or procedure to be performed, including 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 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.



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

- I			ranted me authority to obtain medical treatment and to bind this ded at Cummings School pursuant to the terms and conditions
Authorized Agent - Please	Print		Agent's Signature
Street Address			- Date
Town/City St	ate	Zip	-



### 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 Qty	Low Extended	HighQty	High Extended
B6	Estimate to include hospitalization, supportive care, bloodwork, imaging, cardiology consultation as indicated, medications, and other treatments or diagnostics as warranted	1.00	В6	1.00	В6

Doctor of Record: **B6** I understand that no guarantee of successful treatment is made. I certify that I have read and fully High Total understand the authorization for medical and/or surgical treatment, the reason for why such medical Low Total and/or surgical treatment is considered necessary, as well as its advantages and possible complications, if any, I also assume financial responsibility for all charges incurred to this patient(s), I 75% Deposit agree to pay 75% of the estimated cost at the time of admission. Additional deposits will be required if additional care or procedures are required. I further agree to pay the balance of the charges when this patient(s) is released. Procedural billing is inclusive up to and including the estimated duration of hospitalization. There will be additional expenses if hospitalization extends beyond the specified duration. I have read, understand, and agree to accept the conditions of this teatment plan. Thank you for entrusting us with your pets care. Page 1/1 **B6** 

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

<u>Patient</u>	Owner		
Name: B6	Name	B6	Patient II): B6
Species: Canine	Address:	<b>B6</b>	Date of request: B6
Brown/White Female (Spayed)		DU	
English Bulldog	B6		·!
<b>Birthdate:</b> B6			
	ï		
Attending Clinician: B6	DVM (Emergena	y & Critical Care	Resident) Student:
Date of exam: B6 Patient Location: Ward/Cage	:: ICU 012		Weight (kg) 19.80
rauen meanor manyeage	. ICO OZ		Meight (vB) 13:00
	Se	edation	
Inpatient		BAG	
Outpatient Time:		OBAG	
<b>■ Waiting</b>		■ 1/2 dose (	TRAC
Emergency		<b>■</b> Butorphar	
		-	
		- Wishies	a to sedate/anesthetize
Examination Desired: 3-view	thorax (priorit	ize VD/DV and	L lat}
Presenting Complaint and Cli Emergency	nical Question	ıs you wish to	answer:
Pertinent History:			

acute onset dyspnea, no known hx - pneumonia vs CHF

#### Findings:

#### THORAX, THREE VIEWS:

The cardiac silhouette is mildly enlarged, characterized by increased height on the lateral view, with mild dorsal displacement of the carina. There is mild left atrial enlargement. The pulmonary vessels are normal. There is a patchy interstitial pattern throughout the pulmonary parenchyma with corresponding blurring of vessel margins. There is multifocally increased conspicuity of the bronchi, most apparent in the right cranial and middle lung lobes. The pleural space is normal. The mediastinum is widened and fat-filled consistent with breed. The included abdomen is unremarkable. There is multifocal intervertebral disk space narrowing with endplate sclerosis, multifocal vertebral anomalies, ventral spondylosis deformans. There is moderate bilateral elbow and right stifle degenerative joint disease.

#### 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	ists	
Primary:	B6	DVM
Reviewin	g:	
Dates		
Reported	B6	
<b>Finalized</b>	=	

**Patient** 

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

Owner

Name: B6	Names	B6	Patient ID: B6
Species: Canine	Address	B6	
Brown/White Female (Spayed) E	inglish	DO	<u>_</u>
Buildog			
<b>Birthdate:</b> B6			
Attending Cardiologist:  John E. Rush DVM, MS,	DACVIM (Cardiology), DA	CVEOC	
В	6		
Cardiology Resident:			3
	B6		j
Cardioloev Technician:			
R6			
DU			
L	<u>i</u>		
Student: B6 V1	9		
<u> </u>			
<b>Admit Date:</b> B6 <b>7:49:24</b>	PM		
Discharge Date: B6			
Diagnoses: Dilated cardiomyop	athy (DCM) with congestion	e heart failure	
_			
Diagnostic test results and fine	_	THE STATE OF THE S	
o Chest radiograph (x-ra			
	<del></del>	_	here is decreased contractile function.
O ECG findings: The ECG :	-		t damage was elevated (Nt-proBNP)
O Labriork minings. Inc	waney varies are norma,	UL ATTIBLEU UTRE	r damage was esevated (int-probler)
Case summary:			
	Tuffs for evaluation of her	heart disease. B6 or	iginally presented to the Tults ER on B6
for sudden onset of respiratory	distress and a cough. B6	was stabilized with sur	plemental oxygen in the ICU and was
_	-		est showed a diffuse increased opacity in
			ia could not beruled out. A cardiology
			test showed that one of the indicators of
heart stretch was elevated, thus	supporting the presence	of heart disease.	
R6 has been diamosad with	a reimany hoart muurko dii	space railed dilated care	iomyopathy (DOM). This disease is more
			is of the heart, reduced cardiac pump
	_		MM will alon have cimilizant anhathmisc

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 disease and we cannot reverse the changes to the heart muscle, however we can use cardiac medications and some changes to the diet to make B6 pomfortable 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.				
<ul> <li>Monitoring at home:         <ul> <li>Wewould 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.</li> <li>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.</li> <li>An increase in breathing rate or effort will usually mean that you should give an extra close of B6 of for difficulty breathing is not improved by within 30-60 minutes after giving extra B6 of then werecommend that a recheck exam be scheduled and/or that your dog be evaluated by an emergency dirvic.</li> <li>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://wet.tufts.edu/heartsmart/at-home-monitoring/).</li> <li>Wealso want you to watch for wealeness or collapse, a reduction in appetite, worsening cough, or distention of the belly as these findings indicate that we should do a recheck examination.</li> <li>If you have any concerns, please call or have your dog evaluated by a veterinarian. Our emergency clinic is open 24 hours/day.</li> </ul> </li> <li>Recommended Medications:</li> </ul>				
B6 NEXT DOSE DUE: Tonight with dinner				
<b>B</b> 6				

#### **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.turits.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 chickpeas.

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://vetnutrition.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 86% s 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:

A recheck 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.

Sincerely,			
B6			
Please visit our HeartSmart websi	te for more informa	rtion	
http://vet.tufts.edu/heartsmart/			
Prescription Refill Discloimer:			
For the safety and well-being of our	patients, your pet n	nust have had an	examination by one of our veterinarians within the past
year in order to obtain prescription (	nedications.		
	98-887-4629) to ensu		ed diet(s). If you wish to purchase your food from us, stock. Alternatively, veterinary diets can be ordered from
Clinical Triols: Clinical triols are studies in which or promising new test or treatment. Pl			nd your pet to investigate a specific disease process or a mc/alinical-studies
Case 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://wetmed.tufts.edu/

#### Radiology Request & Report

<u>Patient</u>	Owner				
Name B6	Name	B6		<b>■)=</b> B6	
Species: Canine	Address	B6	Date o	Frequest: 1/18/20	119
Brown/White Female (Spayed)	, <u>,</u> [	DU			
English Bulldog	B6				
<b>Birthdate:</b> B6	t				
Attending Clinician:	B6	DVM (Resident, Car	diology)	Student:	B6
Date of exam: 1/18/19					
Patient Location: Ward/Ca	ge: Cardio, IC	U		Weight (kg) 19	).60
		Sedation			
Inpatient		■ BAG			
Outpatient Time:		OBAG			
■ Waiting		1/2 dose O8	AC.		
Emergency				ı	
in chie Barra	rgency DexDomitor/Butorphanol  Anesthesia to sedate/anesthetize				
		Manestnesia t	o sedate/an	esmetize	
Examination Desired: 2 view	v CXR- DV and	R lateral			
**TECHS TO HANDLE ONLY	•- be careful o	due to dyspnea, do	not stress f	urther if dyspne	ic
Presenting Complaint and C	=	ons you wish to an	EWET:		
Recheck rads for CHF before	edischarge				
Pertinent History:					
DCM, suspected CHF on rad	5 B6				
ban, suspected on the	- D0				
Findings:					
THORAX, THREE VIEWS: in o	omparison to	previous exam date	ed B6		
The cardiac silhouette is sim	-	-	L	ased height on t	he lateral view.
with mild dorsal displaceme		<del>-</del>	-	<del></del> -	
The pulmonary vessels remain					_
			_		
improved but not completel	y resolved and	une pronchial com	ponent of th	e puimonary pai	tem is no longer
appreciated.					

The pleural space is again normal. The mediastinum is widened and fat-filled consistent with breed. The included abdomen is unremarkable. There is multifocal intervertebral disk space narrowing with endplate

sclerosis, multifocal vertebral anomalies, ventral spondylosis deformans. There is unchanged moderate bilateral elbow and right stifle degenerative joint disease.

#### 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.

Radiologi	ists	
Primary:	B6	, VMD
Reviewing	g:	

Dates

Reported: 1/18/19

Finalized:

### **Cummings** Veterinary Medical Center AT TUFTS UNIVERSITY Cardiology Liaison: 508-887-4696

**B6** 

Patient ID: B6 B6 Canine 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
<b>B6</b>
B6
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: Unasyn
At-home diet: (name, form, amount, frequency) Core Wellness grain-free wet + dry
<b>Key indication for consultation:</b> (murmur, arrhythmia, needs fluids, etc.) dyspnea, contiguous B-lines
Questions to be answered: fluid vs. lasix
<b>Is your consult time-sensitive?</b> (e.g., anesthesia today, owner waiting, trying to get biopsy today)  If Yes (explain):

1	т.			
1000			1	
		ш	и	п

#### \*STOP - remainder of form to be filled out by Cardiology\*

Physical Examination	
В	6
Muscle condition:	Moderate cachexia
Mild muscle loss	Marked cachexia
Cardiovascular Physical Exam	L
	he marked dyspnea and referred upper airway.
None	□ IV/VI
<u> </u>	□ v/vi
<u> </u>	□ vi∕vi
<b>□</b> III <b>/</b> 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>	Bounding
Fair	Pulse deficits
Good	Pulsus paradoxus
☐ Strong	Other (describe):
Arrhythmia:	
<b>≥</b> None	■ Bradycardia
🔲 Sinusarrhythmia	■ Tachycardia
Premature beats	
Gallop:	
■ Yes	Pronounced
<b>≥</b> No	Other:
Intermittent	
Pulmonary assessments:	
Eupneic Eupneic	Pulmonary Crackles
Mild dyspnea	Wheezes
Marked dyspnea	Upper airway stridor
Normal BV sounds	Other auscultatory findings:
Abdominal exam: n/a	

☐ Normal ☐ Hepatomegaly	Abdominal distension Mild ascites
	<b>B6</b>
DCM with moderate to marked LA enlarger buildog radiographs, but we suspect CHF to visualized. Treatment for HF should be inia	gram pictures obtained today, we suspect the patient to have ment. The radiographs are very hard to interpret, typical for o be one of the main differential despite the atypical pattern ted and improvement of the clinical condition would be a vote Id be continued since pneumonia cannot be completely rule

mg IV was given during the echocardiogram and we would recommend continuing

with at least 2 mg/kg IV TID overnight. B6 mg PO BID should be started as well. The patient was enrolled in Dr. Freeman's study due to its current grain free diet and blood was pulled today for the study. The patient, once more stable, should be started on taurine at home as well. An NT-proBNP was pulled and will be very interesting in order to better assess the cardiovascular status of the patient since there is still some suspicions that the changes seen on radiographs are not all secondary to CHF. An B6 should be started long term as well. Chest radiographs could be repeated tomorrow after the

**B6** 

suspected diagnosis of CH another disease process. A patient is more stable in owell as 10-14 days after threcommended in 3 month heart disease.  Addendum: Patient's NT-proBNP was radiographs revealed impossible scheduled to go home too	B6 An improvement of versus no changes of the interest of the cardiogram should be start of the cardiac medications or sooner iffite patient development was rovement of the previously diagonal with a recheck in 7-10 days.	rstitial pattern would be repeated as was Bloodwork should ons. Full recheck echops clinical signs con as noted with CHF transcored interstitial pa	ld be more in fabor of ell tomorrow once the be repeated tomorrow as locardiogram is esistent with worsening eatment and recheck attern. The patient is
Heart Failure Classificatio	un Conce		
ISACHC Classification:	<u> </u>		
la	■ IIIa		
□ lb	<u> </u>		
<u> </u>			
ACVIM CHF Classification:  A B1 B2  M-Mode IVSd LVIDd LVPWd IVSs	E C □ D		om om om om
LVIDs LVP <b>W</b> s		DC	on on
EDV(Teich)		<b>B6</b>	om ml
ESV(Teich)			ml
EF(Teich)			%
%FS			%
SV(Teich)			ml
M-Mode Normalized		<u>[</u> ]	<del></del>
IVSdN			(0.290 - 0.520)
LVIDdN			(1.350 - 1.730) !
LVPWdN		B6	(0.330 - 0.530)
IVSsN		DU	(0.430 - 0.710)
LVIDsN			(0.790 - 1.140) !
LVPWsN			(0 <u>.</u> 530 - 0.780)
2D SA LA		В6	om

Ao Diam	[	om .
SA LA / Ao Diam		
IVSd		om .
LVIDd		om .
LVPWd		om .
EDV(Teich)		ml
IVSs		om .
LVIDs		om
LVPWs	<b>B6</b>	cm
ESV(Teich)	20	ml
EF(Teich)		%
%FS		%
SV(Teich)		ml
IVSd		om .
LVIDd		om .
EDV(Teich)		ml
	i	1

LVPWd

am



Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://vetmed.turks.edu/ Referring Vet Direct Line 508-887-4988

#### **Notice of Patient Admit**

L		7:49:24 PM	Case No: B6
Referri	ng Doct	<b>DF.</b> B6	
<b>Client II</b> Patient	ame: Name:	В6	
Dear [	B6		
-	-	sented to our Eme with our team.	rgency service. Please make note of the following information to facilitate
		doctor is B6 admission to th	e FHSA is: Dyspnea (pneumonia > CHF)
-		questions regardin	g this particular case, please call 508-887-4988 to reach the ICU Service.

Information is updated daily, by noon.

Thank you for your referral to our Emergency Service.

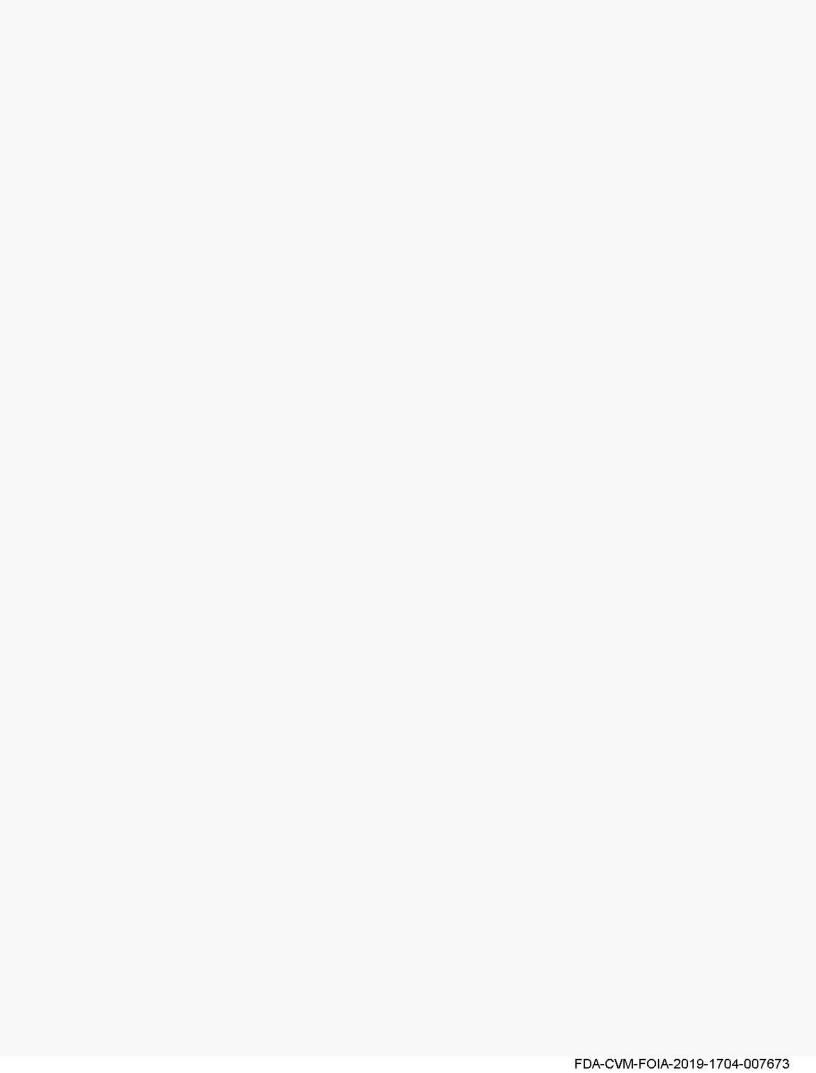


Foster Hospital for Small Animals 55 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://vetmed.tufts.edu/Chloe

B6 Female (Spayed)
Canine English Bulldog
Brown/White
B6

#### Daily Update From the Cardiology Service

Today's date:	B6		
Dear Drs a	B6		
Thank you for refe University.	rring patie	nts to the Foster	Hospital for Small Animals at the Cummings School of Tuft
Your patient	B6	was admitted a	and is being cared for by the Cardiology Service.
Today, B6			
is in stable	condition		
🔲 isstillinth	ne oxygen c	æge	
is critically	r ill		
discharged	d from the l	hospital today	
Today's treatment	s include:		
bloodwork	c planned/p	ending	
echocardi	ography - D	CM and L-CHF	
cardiac car	theter proc	edure planned	
ongoing tr	eatment fo	r CHF	
ongoing tr	eatment fo	r thrombosis	
ongoing tr	eatment fo	r arrhythmia	
Additional plans:			
Please allow 3-5 b	usiness day	s for reports to b	be finalized upon patient discharge.
Please call (508) 8 Thank you!	87-4696 be	fore 5pm or ema	ail us at <b>cardiovet@tufts.edu</b> if you have any questions.
Attending Clinician	n:	B6	DVM (Resident, Cardiology)
Faculty Clinician: .	John Rush (	DVM, DACVIM, D	DACVECC
Senior student:			





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 Bulldog
Brown/	White
В6	

1/21/2019

Dear B6			
Thank you for referring	В6	with their pet B6	
		t	
<u>د ل</u>		-l	
r you nave any questions,	or concerns,	, please contact us at 508-887-4	YRR
Thank you,			
B6	DVM (Re	sident, Cardiology)	

From:	PFR Event <pre>creation@fda.hhs.gov&gt;</pre>
То:	Cleary, Michael *; HQ Pet Food Report Notification; B6
Sent:	2/25/2019 1:05:02 PM
Subject:	Wellness CORE Grain-Free Ocean Whitefish dry-Wellness Core grain free turkey: Lisa Freeman - EON-380743
Attachments:	2063134-report.pdf; 2063134-attachments.zip

A PFR Report has been received and PFR Event [EON-380743] has been created in the EON System.

A "PDF" report by name "2063134-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 "2063134-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-380743

ICSR #: 2063134

**EON Title:** PFR Event created for Wellness CORE Grain-Free Ocean Whitefish dry Wellness Core grain free turkey chicken liver and turkey liver formula canned Wellness Core Hearty Cuts grain-free in gravy chicken and turkey recipe; 2063134

AE Date	02/01/2019	Number Fed/Exposed	6
Best By Date		Number Reacted	3
Animal Species	Dog	Outcome to Date	Stable
Breed	Bulldog		
Age	8 Years		
District Involved	PFR-New England DO		

#### **Product information**

**Individual Case Safety Report Number: 2063134** 

**Product Group:** Pet Food

**Product Name:** Wellness CORE Grain-Free Ocean Whitefish dry Wellness Core grain free turkey, chicken liver, and turkey liver formula canned Wellness Core Hearty Cuts grain-free in gravy chicken and turkey recipe **Description:** Housemate (half sister; **B6** (ICSR) of 2063133) diagnosed with DCM and CHF so screened by RDVM for BNP which was elevated. Evaluated at Tufts 2/1/19. ARVC/diet-induced DCM with

ventricular arrhythmia. Diet changed to Royal Canin Early Cardiac and will re-evaluate in 3 months I have diet

sample. 3 other dogs in household (1 had normal BNP, other 2 not yet evaluated)

**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:** 6 **Number of Animals Reacted With Product:** 3

Product Name	Lot Number or ID	Best By Date
Wellness CORE Grain-Free Ocean Whitefish dry Wellness Core grain free turkey, chicken liver, and turkey liver formula canned Wellness Core Hearty Cuts grain-free in gravy chicken and turkey recipe		

#### **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-380743

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=397752

\_\_\_\_\_

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Report Details - EON-	380743						
ICSR:	2063134						
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:	2019-02-25 07:58:43 EST						
Reported Problem:	Problem Description:	Housemate (half sister, <b>B6</b> (ICSR) of 2063133) diagnosed with DCM and CHF so screened by RDVM for BNP which was elevated. Evaluated at Tufts 2/1/19. ARVC/diet-induced DCM with ventricular arrhythmia. Diet changed to Royal Canin Early Cardiac and will re-evaluate in 3 months I have diet sample. 3 other dogs in household (1 had normal BNP, other 2 not yet evaluated)					
	Date Problem Started:	: 02/01/2019					
	Concurrent Medical Problem:						
	Pre Existing Conditions:	B6 as puppy					
	Outcome to Date:	Stable					
Product Information:	Product Name:	chicken liver, and tur free in gravy chicken	in-Free Ocean Whitefish dry Wellness Core grain free turkey, key liver formula canned Wellness Core Hearty Cuts grain- and turkey recipe				
	Product Type:	Pet Food					
	Lot Number:						
	Product Use Information:						
	Manufacturer /Distributor Information:						
	Purchase Location Information:						
Animal Information:	Name:	B6					
	Type Of Species:	Dog					
	Type Of Breed:	Bulldog					
	Gender:	; Male					
	Reproductive Status:						
	5	ht: 22.1 Kilogram					
	2)	8 Years					
	Assessment of Prior Health:	h: 6 s 6 xt:					
	Number of Animals Given the Product:						
	Number of Animals Reacted:	d:					
	Owner Information:	Owner Information provided:	Yes				
		Contact:					
			Phone: B6				
		Address:					
		Address.	B6				
			United States				
	Healthcare Professional	Practice Name:	Tufts Cummings School of Veterinary Medicine				

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

#### **Foster Hospital for Small Animals**

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

Client: Address:  Home Phone: B6 Work Phone: Cell Phone: B6	All Medical Records  Patient: B6  Breed: English Bulldog  DOB: B6	Species: Sex:	Canine Male (Neutered)
Referring Information			
Client: B6	<b>B6</b>		
Initial Complaint:			

Client: Patient: B6	
Initial Complaint: Scanned Record	
Initial Complaint: Cardiology DCM study - will come fasted - u/f samples	
SOAP Text Feb 1 2019 11:50AM - Rush. John	

Disposition/Recommendations

# Cummings Veterinary Medical Center

AT TUFTS UNIVERSITY

Client:	BO
Veterinarian:	B6
Patient ID:	
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:	English Bulldog
Sex:	Male (Neutered)
Age:	B6 Years Old

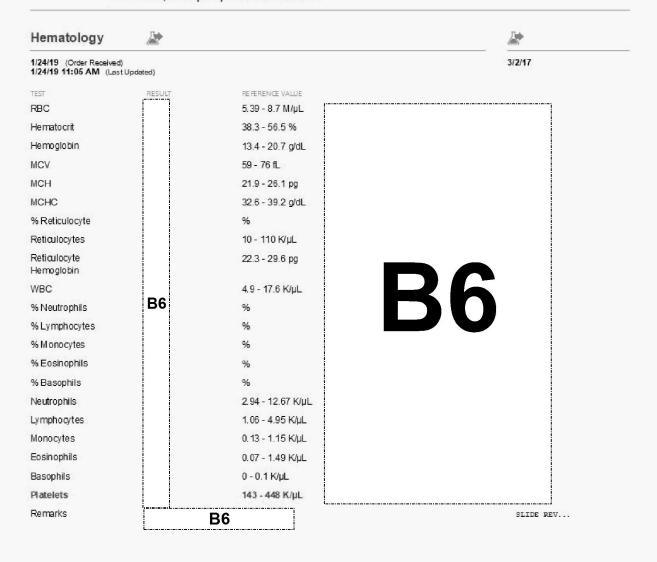
	Ac	cession ID:	
Test	Results	Reference Range	Units
,			

**B6** 4/34 stringsoft

Printed Monday, February 25, 2019

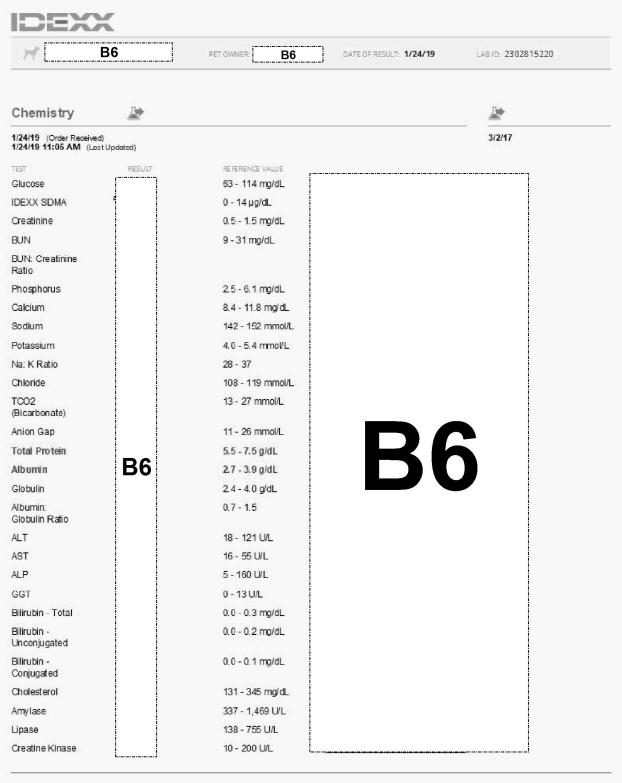


ID EXX Services: Senior Profile with Fecal Dx™ Profile, Giardia, Lab 4Dx® Plus and Reflex Quant C6® and UPC Select, SAMPLE/TEST INFO NEEDED, Cardiopet® proBNP-Canine Add-on\*



Generated by VetConnect® PLUS January 24, 2019 03:04 PM

Page 1 of 4



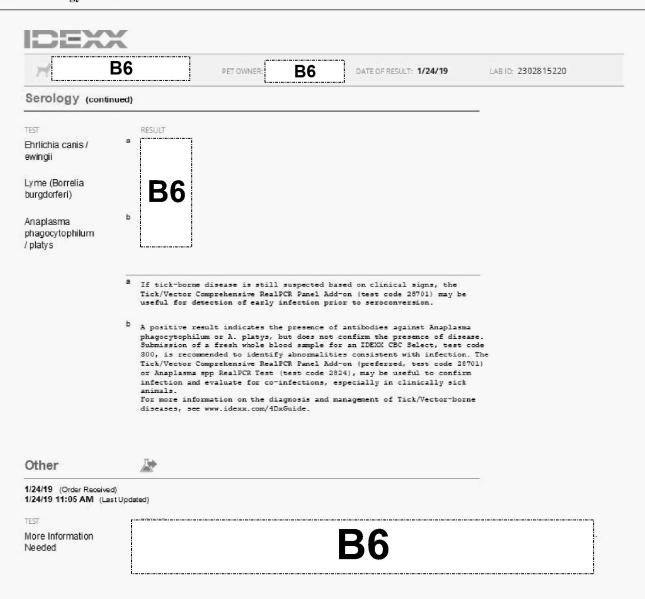
Generated by VetConnect® PLUS January 24, 2019 03:04 PM

Page 2 of 4

#### 7/ **B6** PET OWNER **B6** DATE OF RESULT: 1/24/19 LABID: 2302815220 Chemistry (continued) TEST REPERENCE VALUE Hemolysis Index **B6** Lipemia Index Cardiopet 0 - 900 pmol/L **B6** proBNP -Canine BOTH SIMA AND CREATININE ARE WITHIN THE REFERENCE INTERVAL which indicates kidney function is likely good. Evaluate a complete urinalysis and confirm there is no other evidence of kidney disease. b Index of N, 1+, 2+ exhibits no significant effect on chemistry values. $^{\rm C}$ $\,$ Index of N, 1+, 2+ exhibits no significant effect on chemistry values. Cardiopet proBNF $>1800 \mathrm{pmol/L}$ Abnormal. NT-proBNF concentration is compatible with increased stretch and stress on the myocardium. Clinically significant heart disease is likely at this time. For dogs (<20kg) with mitral valve disease (MVD), there is increased risk of heart failure within the next 12 months. If clinical signs (i.e. respiratory and/or exercise intolerance) are present, they are likely due to heart failure. Additional diagnostics including thoracic radiographs, electrocardiogram and echocardiogram are strongly recommended to diagnose and assess severity of cardiac disease. 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. Endocrinology 1/24/19 (Order Received) 1/24/19 11:05 AM (Last Updated) 3/2/17 TEST RESULT REFERENCE VALUE **B6** Total T4 1 - 4 µg/dL **B6 B6** Dogs with no clinical signs of hypothyroidism and results within the reference interval are likely euthyroid. For dogs on thyroid supplement, recommended therapeutic levels are 2.1--5.4~ug/dL. Serology 1/24/19 (Order Received) 1/24/19 11:05 AM (Last Updated) RESULT Heartworm B6 Antigen Generated by VetConnect® PLUS January 24, 2019 03:04 PM

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cbc and profile 2/1/19

#### Cummings School of Veterinary Medicine

Clinical Pathology Laboratory 200 Westboro Road North Grafton, MA 01536

Name/DOB: B6	Sex: CM	Provider Dr. John Rush Order Location: V320559: Investigation into
Phone number:	Age: 8	Sample ID: 1902010102
Collection Date: 2/1/2019 11:52 AM	Species: Canine	
Approval date: 2/1/2019 12:57 PM	Breed:	

TEST NAME	IN RANGE	OUT OF RANGE	RANGE	UNITS	REFERENCE RANGE
CBC, Comprehensiv	e, Sm Animal (	Research)			CSTCYR
WBC (ADVIA) RBC (Advia) Hemoglobin (ADVIA) Hematocrit (Advia) MCV (ADVIA)	В6		[*] [_*_] [_*_] [_*_]	K/uL M/uL g/dL % fL	4.40-15.10 5.80-8.50 13.3-20.5 39-55 64.5-77.5
MCH (ADVIA) CHCM MCHC (ADVIA) RDW (ADVIA) Platelet Count (Advia) Mean Platelet Volume	В	B6	[_*_] [_*_] [_*] []*	pg g/dl g/dL K/uL fl	213-25.9 31.9-34.3 11.9-15.2 173-486 8.29-13.20
(Advia) 02/01/19 12:12 PM		ps (if present) and samp. alsely increased MPV.	Le age (greater t	han 4 hours) ca	nn.
Platelet Crit 02/01/19 12:12 PM		B6 is invalid when clumped n of PltCt is unclear in			0.129-0.403
PDW Reticulocyte Count (Advia) Absolute Reticulocyte	В6	В6	[]* []*	% % K/uL	0.20-1.60
Count (Advia) CHr MCVr Comments (Hematology)	B6		· <del></del> -	pg fl	
Microscopic Exam of	Blood Smear	(Advia)			CSTCYR
Seg Neuts (%) Lymphocytes (%) Monocytes (%) Eosinophils (%) Seg Neutrophils (Abs)	В6		[*_] [*] [_*_] [_*_] [_**]	% % % % K/ul	43-86 7-47 1-15 0-16 2.800-11.500
Advia Lymphs (Abs) Advia Mono (Abs) Advia Eosinophils (Abs)			[*] [_*] [*_]	K/uL K/uL K/uL	1.00-4.80 0.10-1.50 0.00-1.40
mple ID: 1902010102/1				Revie	ewed by:

cbc and profile 2/1/19

#### **Cummings School of Veterinary Medicine**

Clinical Pathology Laboratory 200 Westboro Road North Grafton, MA 01536

Name/DOB: B6	Sex: CM	Provider. Dr. John Rush Order Location: V320559: Investigation into
Phone number:	Age: 8	Sample ID: 1902010102
Collection Date: 2/1/2019 11:52 AM	Species: Canine	Section that ★ respective section and section is a respective section.
Approval date: 2/1/2019 12:57 PM	Breed:	

TEST NAME	R	ESULT	RANGE	UNITS	REFERENCE
	IN RANGE	OUT OF RANGE			RANGE
Microscopic Exa	m of Blood Smear (	Advia) (cont'd)			CSTCYR

Advia

WB C Morphology No Morphologic Abnormalities
RB C Morphology No morphologic abnormalities

Research Chemistry	Profile - Small	Animal (Cobas)			SMACHUNSKI
Glucose			[ * ]	mg/dL	67-135
Urea			[ * ]	mg/dL	8-30
Creatinine			*1	mg/dL	0.6-2.0
Phosphorus			[* ]	mg/dL	2.6-7.2
Calcium 2			[*]	mg/dL	9.4-11.3
Magnesium 2+		[	[* ]	mEq/L	1.8-3.0
Total Protein			*[ ]	g/dL	5.5-7.8
Albumin		<b>D</b> 0	[*_]	g/dL	2.8-4.0
Globulins		B6	*[ ]	g/dL	2.3-4.2
A/G Ratio			[ ]*	-	0.7-1.6
Sodium			[*_]	mEq/L	140-150
Chloride		li	[*]	mEq/L	106-116
Potassium	B6		[ * ]	mEq/L	3.7-5.4
tCO2(Bicarb)			[*]	mEq/L	14-28
AGAP			[_*1		8.0-19.0
NA/K			[_*]		29-40
Total Bilirubin			*]	mg/dL	0.10-0.30
Alkaline Phosphatase			[*]	U/L	12-127
GGT			[*]	U/L	0-10
ALT			[_*]	U/L	14-86
AST			[_*]	U/L	9-54
Creatine Kinase			[*]	U/L	22-422
Cholesterol			[_*]	mg/dL	82-355
Triglycerides			[*]	mg/dl	30-338
Amylase			[*_]	U/L	409-1250
Osmolality (calculated)	t	B6	*[]	mmol/L	291-315

Sample ID: 1902010102/2 END OF REPORT (Final) Reviewed by: \_\_\_\_\_ Page 2

#### NT-proBNP 2/1/19

Client B6 Patient B6 IDEXX Reference Laboratories IDEXX VetConnect 1-888-433-9967 Client: B6
Patient: B6
Species CANINE
Breed: ENGLISH BULLDOG Date: 02/01/2019 TUFTS UNIVERSITY 200 WESTBORO RD NORTH GRAFTON, Massachusetts 01536 Requisition #: 438225. Accession B6 Ordered by: RUSH 508-839-5395 Gender: MALE NEUTERED Age: 8Y Account #88933 CARDIOPET proBNP - CANINE CARDIOPET proBNP **B6** 0 - 900 pmol/L HIGH **B6** - 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.

**B6** 

#### CBC/CHEM

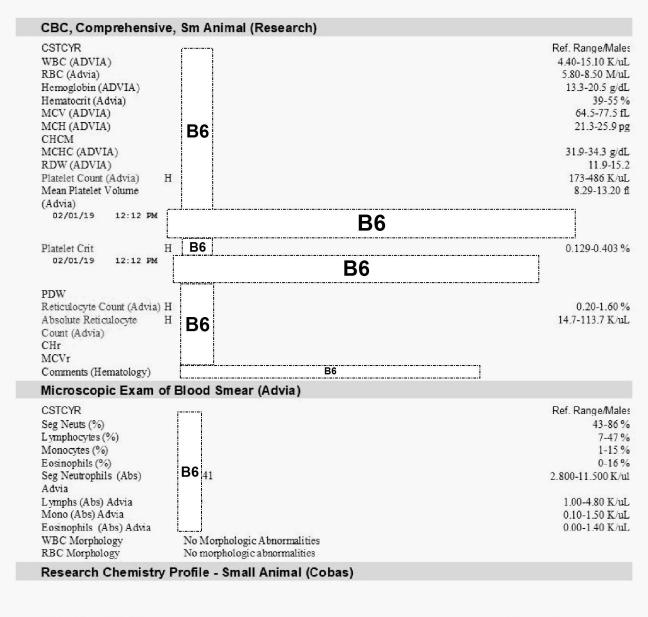


#### Tufts Cummings School Of Veterinary Medicine

200 Westboro Road North Grafton, MA 01536

#### DUPLICATE

Name/DOB: Patient ID:	36 Sex: CM	Provider: Dr. John Rush Order Location: V320559: Investigation into
Phone number:	Age: 8	Sample ID: 1902010102
Collection Date: 2/1/2019 11:5	2 AM Species: Canine	Section ■ Control of the Section (Section 1999)
Approval date: 2/1/2019 12:5	7 PM Breed:	



Sample ID: 1902010102/1 This report continues... (Final) Reviewedby:

**B6** 

#### CBC/CHEM



#### Tufts Cummings School Of Veterinary Medicine

200 Westboro Road North Grafton, MA 01536

#### DUPLICATE

Name/DOE Patient I	Sex: CM	Provider. Dr. John Rush Order Location: V320559: Investigation into
Phone number:	Age: 8	Sample ID: 1902010102
Collection Date: 2/1/2019 11:52 AM	Species: Canine	Strike the ▲ respectives are investigated and strike stri
Approval date: 2/1/2019 12:57 PM	Breed:	

#### Research Chemistry Profile - Small Animal (Cobas) (cont'd)

SMACHUNSKI	·		Ref. Range/Males
Glucose			67-135 mg/dL
Urea			8-30 mg/dL
Creatinine			0.6-2.0 mg/dL
Phosphorus			2.6-7.2 mg/dL
Calcium 2	İ		9.4-11.3 mg/dL
Magnesium 2+			1.8-3.0 mEq/L
Total Protein	L		5.5-7.8 g/dL
Albumin	3.3		2.8-4.0 g/dL
Globulins	L		2.3-4.2 g/dL
A/G Ratio	Н		0.7-1.6
Sodium			140-150 mEq/L
Chloride			106-116 mEq/L
Potassium		36	3.7-5.4 mEq/L
tCO2(Bicarb)	, B	, ,	14-28 mEq/L
AGAP			8.0-19.0
NA/K			29-40
Total Bilirubin			0.10-0.30 mg/dL
Alkaline Phosphatase	İ		12-127 U/L
GGT			0-10 U/L
ALT			14-86 U/L
AST			9-54 U/L
Creatine Kinase			22-422 U/L
Cholesterol			82-355 mg/dL
Triglycerides	ŀ		30-338 mg/dl
Amvlase			409-1250 U/L
Osmolality (calculated)	L		291-315 mmol/L

Sample ID: 1902010102/2 REPRINT: Orig. printing on 2/1/2019 (Final)

Reviewed by: \_\_\_\_ Page 2

27

#### Taurine level

291 PLO WBB			<u></u>	B6
Amino Acid Labora Telephone: 530-7 Email: <u>ucd.aminoa</u>	aboratory Sam etory, 1089 Veterina 52-5058, Fax: 530 cid.lab@ucdavis.edu avis.edu/labs/amino	ry Medicine Drive, 1-752-4698	Davis, Ca 95616 SH	1/2019 pat Race IP 11:54 AM NEL ICE PACKS, TAURINE thium Heparin
Veterinarian Conta	act: B6			
Clinic/Company N	ame: Tufts Cumming	gs School of Vet. Med	I Clinical Pathology	/ Laboratory
Address: 200 Wes	tboro Road, North Gra	afton MA 015369		
Email:Clinpath@	⊉tufts.edu card	iovet@tufts	e d u	<del></del>
Telephone:508-	887-4669	Fax: _	508-839-7936	
Billing Contact:	В6	Email	B6_	
Billing Contact Pho	one: <u>508-887-4267</u>	Tax IC	):	
Patient Name	B6	Speci	es: CANINE	2
	sh Bullde			
Current Diet : <u></u>	Jellwess Co	Re		
Sample type:	Plasma Whole	Blood Urine	Food Other _	
Test: Taurine	Complete Amin	o Acids Other:		_
Taurine Resu	Its (lab use only)	, <sub>1</sub>		
Plasma: B6	_ Whole Blood:	B6 _Urine	e: F	Good:
	Plasma (	nMol/ml)	Whole Bloc	od (nMol/ml)
	Normal Range	No known risk for deficiency	Normal Range	No known risk for deficiency

>40

300-600

200-350

>200

>150

80-120

60-120

Cat

Dog

<sup>\*</sup> 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.

	,
Client:	D6
Patient:	DO
	·

#### Diet history 2/1/19

	CARDIOLOGY Please answer the follow			undi,	
Pe	t's name: B6 Owner's name	В	6	Today's date:	02-01-19
1.	How would you assess your pet's appetite? (mark the po Example: Poor			i resents your pet ellent	's appetite)
	Poor	1	Exc	ellent	
2.	Have you noticed a change in your pet's appetite over the same amount as usual    Eats less   Seems to prefer different foods than usual   Other		? (check all that a Eats more tha		
3.	Over the last few weeks, has your pet (check one)  □Lost weight □Gained weight □Stayed about the	same weight	Don't know		
4.	Please list below <u>ALL</u> pet foods, people food, treats, snar currently eats. Please include the brand, specific product Examples are shown in the table – please provide enough	, and flavor so w	e know exactly v	hat you pet is ea	ating.
					- 1
	Food (include specific product and flavor)	Form	Amount	How often?	Fed since
	Nutro Grain Free Chicken, Lentil, & Sweet Potato Adult	dry	1 ½ cup	2x/day	Jan 2018
	85% lean hamburger	microwaved	3 oz	1x/week	Jan 2015
	Pupperoni original beef flavor	treat	1/2	1x/day	Aug 2015
	Rawhide	treat	6 inch twist	1x/week	Dec 2015
	Wellness Coro Samed chicken	wet	402	2x day	Dec 2015
	Cielliess Gore Fish	Mry	74 (UD	2x/day	Dec 7015
	Wellyers Core	trat	3 DCs.	1x day	1
	(See B6 FORM				
	TOR EXACT BROUPS				
	FORMULAS				
Į	/				
	*Any additional diet information can be listed on the back	of this sheet			
5.	Do you give any dietary supplements to your pet (for exa supplements)?    Yes   No   If yes, please list which	ch ones and give concentration	lucosamine, fatty brands and amo	ounts:	her unt per day
	Antioxidants				
	Multivitamin UYes UNo				
	Fish oil Yes UNo				
	Coenzyme Q10			-	
	Other (please list):			-	
			500 ma table	ts – 1 per day	
		are a Bourny		- The table	- Por day
3.	How do you administer pills to your pet?		-	120 15	
	□ I do not give any medications	C	IYAUG N	6 DIET	70
	□ I put them directly in my pet's mouth without food	73/70	Pau. 1.		
	put them in my pet's dog/cat food		NOYTE U	UN BARLY	1
	put them in a Pill Pocket or similar product		Chan	10	I
	□ I put them in foods (list foods):		CATIL	1	



#### Troponin 2/1/19



# Gastrointestinal Laboratory Dr. J.M. Steiner 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. Freeman
 Phone:
 508 887 4669

 Tufts University-Clinical Pathology: Lab
 9 508 839 7936

 Attn:
 B6
 Animal Name:

 North Grafton, MA 01536
 Owner Name:

 USA
 Species:
 Canine

Date Received:

GI Lab Accession: 6969

Feb 12, 2019

<u>Test</u>	Result	Control Range	Assay Date
Ultra-Sensitive Troponin I Fasting	B6 ng/mL	≤0.06	02/12/19
	<b>B6</b>		
Comments:			

#### Troponin 2/1/19

Important Notices: Internal Medicine Conference

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

#### 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@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 in formation.

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

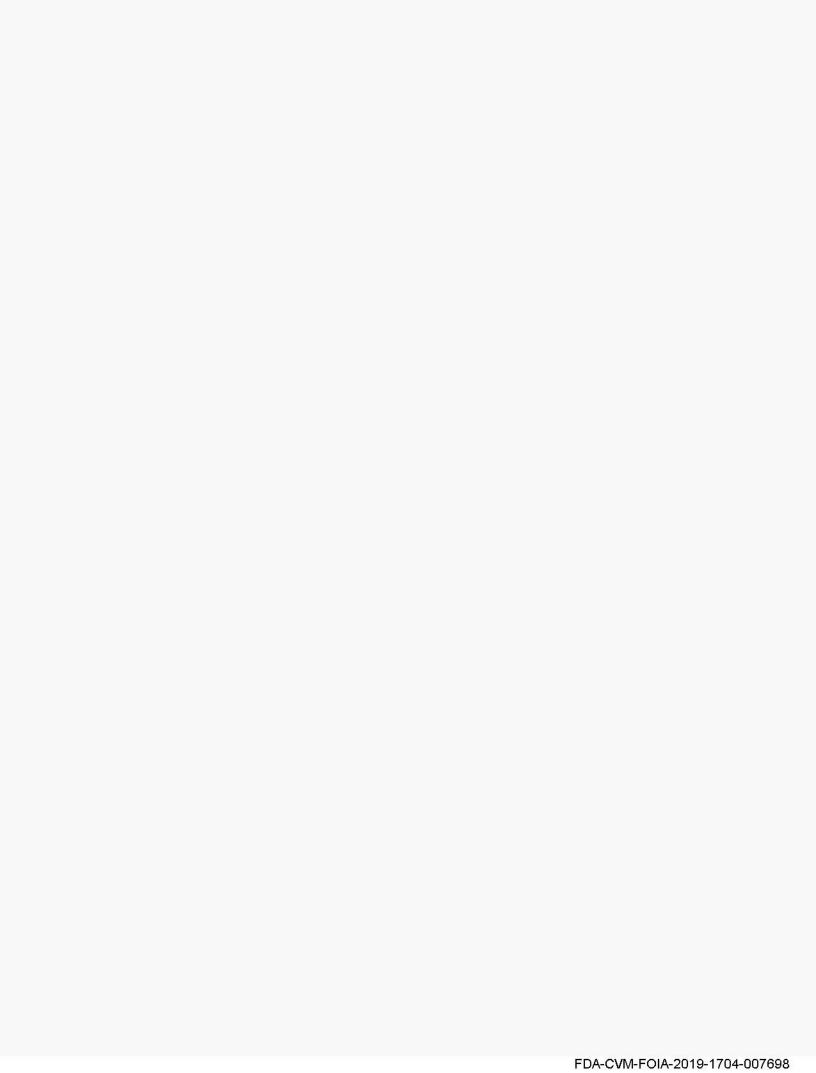
Client:	R6
Patient:	טט

#### Vitals Results

······		(
! <b>BG</b> [11:00:04 A]	M Whicht (Ira)	; DC
i <b>Bb</b> :11.00.04 A.	vi weight (kg)	: Bh
		: <b>D</b> O !

#### **Patient History**

)3:52 PM	Appointment	
08:05 AM	UserForm	
98:05 AM	UserForm	
10:37 AM 10:38 AM	UserForm UserForm	
	Purchase	
<b>B6</b> 10:44 AM	Vitals	<b>B6</b>
12:03 PM	UserForm	
12:50 PM	Appointment	
12:58 PM	Prescription	
i 12:08 PM	Patient Merge	
þ4:32 PM	Purchase	
	Purchase	







B6
Male(Neutered)
Camine English Bulkdog Brown/White
Patient ID: 86

#### 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.

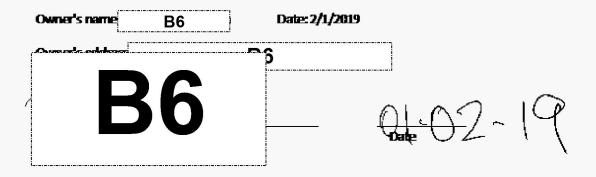
I hereby grant to the Cummings School of Veterinary Medicine at Tufts University, its officers and employees (collectively referred to herein as Cummings School), and its agents and assigns (the Grantees) the irrevocable rights to photograph / videotape the operation or procedure to be performed, including 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.

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 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.



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

The owner of the animal owner to pay the veterinary described above	B6 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 Pr	irt		Agent's Signature
Street Address			Date
Town/City State	e	<b>710</b>	



**B6** 

Patient ID: B6
B6 Canine

86 Years Old Male (Neutered) English

Bulldog

Body Weight: Weight (kg) 0.00

#### Brachycephalic Consent Form Anesthesia, Sedation and Hospitalization

Brachycephalic is a term for "short-nosed". Several dog breeds may experience difficulty breathing due to the shape of their head, muzzle and throat. Shorter nosed dogs include English Bulldogs, French Bulldogs, Pugs, Boston Terriers and many other breeds. The shorter than average nose and face in proportion to their body size can cause problems for these breeds at times. Owners with brachycephalic breeds must pay extra attention to their animals during exercise, heat and while obtaining veterinary care.

#### Overview

The purpose of this form is to inform you of the risks associated with anesthesia/sedation and occasionally hospitalization, which are inherent for dogs with shorter noses (brachycephalic). Not all of these problems may apply to your dog, but these are part of the brachycephalic syndrome. Please discuss any specific concerns with your attending veterinarian.

#### Respiratory problems

Brachycephalic dogs have a shortened skull, resulting in a compressed nasal passage and abnormal throat anatomy. The abnormal upper airway anatomy causes increased negative pressure while taking a breath, leading to inflammation, deformation of throat tissues, and obstruction of breathing. We encourage corrective surgery in moderate to severely affected dogs.

#### Cooling problems

As dogs cool by panting, dogs with narrowed airways may have difficulty cooling themselves. This may be made worse by anxiety or stress.

#### Stomach and intestinal problems

Brachycephalic dogs may swallow a lot of air which can lead to increased vomiting or regurgitation, and this could lead to pneumonia. If possible, we pre-treat brachycephalic dogs with medications to reduce stomach acids, and to promote stomach emptying.

#### Restraint challenges

Due to their airway, and in some bulldogs, their intrinsic personality as "tough" dogs, it may be difficult to restrain them safely. This is a particularly significant problem with more aggressive dogs. We

occasionally need to sedate them, or ask family members to help with some routine procedures to avoid unnecessary stress on the patient.

#### Sedation and anesthesia

While sedation and anesthesia are commonly performed in brachycephalic breeds, especially bulldogs, recovery from anesthesia may be more difficult for these patients due to a narrowed airway. We have our anesthesia team very closely involved in sedation and anesthesia of brachycephalic breeds especially bulldogs. They have found that careful monitoring is essential to a good outcome. In fact, many dog owners travel some distance in order to ensure that a Tufts board-certified anesthesiologist is present during anesthesia or sedation to minimize the risk of complications.

## We consider brachycephalic dogs a high risk population. Please be sure you talk with your doctor about the following:

- Any medical and/or surgical treatment alternatives for your pet
- Sufficient details of this consent form and how they apply to your dog
- 3. How fully your pet might respond or recover and how long it could take
- 4. The most common complications and how serious they might be

I grant permission for my pet to undergo general anesthesia/sedation/hospitalization at Tufts Foster Hospital for Small Animals at the Cummings School of Veterinary Medicine.

I am aware that my pet has physical characteristics that make anesthesia and sedation more challenging and possibly more risky than for the average dog with a longer nose.

I am aware that brachycephalic breeds, such as the English and French bulldog, Boston Terrier, Pug, and Pekingese have a shortened skull, resulting in a compressed nasal passage and abnormal throat anatomy. The abnormal upper airway anatomy causes increased negative pressure while taking a breath, leading to inflammation, deformation of throat tissues, and obstruction of breathing.

I am aware that if my brachycephalic pet undergoes sedation or general anesthesia the potential complications include partial or complete airway obstruction during recovery and regurgitation/vomiting which could lead to aspiration pneumonia/respiratory distress. With airway surgery, death has been reported as a rare complication in <3% of cases.

I am aware that anesthetizing or sedating a brachycephalic animal for any reason can lead to the development of significant complications as described in this document.

#### Please answer YES or NO to the following questions:

My pet has demonstrated difficulty breathing, exercise intolerance, and/or collapse episodes.

- <b>↓</b> YES	■NO	
. ^	I been be an all and a	
My pet has dem	onstrated difficulty eating, such as gaggi	ng, vom iting, and regurgitation.
YES	õno	
	$\wedge$	
My pet is receivi	ng or has recently received a non-steroid	lal anti-inflammatory drug (e.g., Rimadyl)
<b>YES</b>	NO	
Your signature i	/ idicates that you have read and understa	nd the above information and give your
consent for trea		
Owner signature	<b>B6</b>	
Date: 2/1/2019		

## **Cummings** Veterinary Medical Center AT TUFTS UNIVERSITY

Cardiology Liaison: 508-887-4696

D-Ji---

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

Name: 86 Name: 86 Species: Canine Address: Brown/White Male (Neutered) English	Partitent ID: B6
	B6
Building	
Birthdate: B6	
Attending Cardiologist:	
John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC	
1 R6	
Cartalana Barthania	
Cardiolnev Resident:	]
Cardiology Technician:	
DC	
<b>B6</b>	
Veterinary II utritionist : Dr. Lisa Freeman	
Student: B6 ) V19	
<u> </u>	
Admit Date: 2/1/2019 10:36:11 AM	
Discharge Date: 2/1/2019	
Disancene: Arrhythmoganic right wardries for cardinovarusethu I M	2181 with merked right heart enlargement westricter
nragnuses. Anny unnugerioning it ventricular cardiony opamy (Annount in the company opamy (Annount in the company opamy opamy (Annount in the company opamy	<u> </u>
Diagnoses: Arrhythmogenic right ventricular cardiomyopathy (A	<u> </u>

**Clinical findings:** B6 has been diagnosed with a primary heart muscle disease called arrhythmogenic right ventricular cardiomyopathy (ARVC). This disease is common in buildogs and is characterized by replacement of the normal heart muscle by fat and/or scartissue which may result in serious ventricular arrhythmias (abnormal heart rhythms originating from the lower chamber of the heart), cardiac enlargement and congestive heart failure, or both. Dogs with ARVC may experience syncope (fainting) or sudden death as the result of ventricular arrhythmia. Though we cannot reverse the changes in the heart muscle, we can control the heart disease with medical management.

The following diagnostic test results were obtained today:

EGG findings: The EGG shows a number of premature ventricular contractions (VPCS) orginating from the right

Echocardiogram findings: The right ventricle is moderate to markedly enlarged. The left ventricle is mildly dilated with the left ventricular free wall thinned. There is reduced vigor of contraction of the left ventricle. The left atrium is mildly to oderately enlarged. The right atrium is moderately to markedly enlarged. There is somemitral and tricuspid valve regurgitation. The hepatic veins are markedly distended.

Moritoring at home: Please monitor for any signs of lethargy, wealness, palegums, cough, shortness of breath, inappetence, or collapse. If a collapsing episode is noted, please check your dog's gum color and try to get a sense of whether the heart rate is slow or fast. If you have an iPhone or Android smartphone device, you may want to explore the

option of purchasing the Kardia Mobile device which will allow you to monitor the heart rate and rhythm at home (www.aliveor.com). If you have any concerns, please call or have your dog evaluated by a veterinarian. Our emergency clinic is open 24 hours/day.  B6 may also benefit from wearing a Holter EKG, which is a harnessed EKG that he would wear for 24 hours. We can place that here, and send him home for the 24 hours duration. He would then return here the next day where we can remove the Holter and analyze his heart rythmn to fully assess his arrhythmia. Call if you decide to do this test.
Recommended Medications:
<b>B6</b>
Diet suggestions: Dogs with ARVC may benefit from the addition of omega-3 fatty acids (fish oil) to the diet. Diets such as the Royal Canin Boxer or Early Cardiac diet, or Hill's j/d have ample fish oil and may not require much (or any) additional supplementation. Additional information on supplements such as fish oil or other supplements that you might have questions about may be found on the Tufts HeartSmart web site: (http://vet.tufts.edu/heartsmart/diet/).
<ul> <li>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.</li> <li>Werecommend 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 langaroo, duck, lamb, venison, lentils, peas, beans, buffalo, tapioca, barley, and chickpeas.</li> <li>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 Currmings School's Petfoodology blog can further explain these findings (http://wetnutrition.turls.edu/2018/06/a-broken-heart-risk-of-heart-disease-in-boutique-or-grain-free-diets-and-exotic-ingredients/).</li> <li>Our nutritionists have compiled a list of dog foods that are good options for dogs with heart disease.</li> </ul>
Dry Food Options: Royal Carnin Early Cardiac (veterinary diet) Royal Carnin Boxer Purina Pro Plan Adult Weight Management Purina Pro Plan Bright Mind Adult Small Breed Formula Canned 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 Carnin Mature 8+
We recommend slowly introducing one of the diets on the above list as follows: 25% of the new diet mixed with 75% old diet for 2-3 days, then 50:50, etc.  Hopefully you can find a diet on the list that B6 will enjoy!
If your dog has special nutritional needs or requires a homecooked diet, we recommend you schedule an appointment with our nutritionists (508-887-4696).  Districts recommendations: Generally we recommend limited activity for dogs with heart disease - Leash walk only is ideal. Repetitive or strenuous high energy activities (repetitive ball chasing, running fast off-leash, etc.) are not recommended as these activities may result in worsened arrhythmia or even sudden death.
Recheck visits: We would like to reched B6 in 3 months, at which point we can discuss additional medications and

treatments as needed (sud purchase the AliveCor and	•			ck ECGs every 3 months	, or you can
Thank you for entrusting use cardiovet@tults.edu for se Please visit our HeartSmart	heduling and no	on-emergent questi		on at (508)-887-4696 or	email us at
Please visit our HeartSmart http://vet.tufts.edu/hearts	***************************************	re information			
Prescription Refill Discloimer For the safety and well-bein year in order to obtain prescr	g of our patients,		had on examination	by one of our veterinaria	ns within the past
Ordering Food: Please check with your prim please call 7-10 days in adva online retailers with a presen	nce (508-887-46)	29) to ensure the foo			
Clinical Trials: Clinical trials are studies in a promising new test or treatm					ase process or a
Case: E	6	Owner B6	Disch	arge Instructions	

# Cummings Veterinary Medical Center

Cardiology Liaison: 508-887-4696

<b>B6</b>	
Patient ID: B6	
B6 Years Old Male (Ne Brown/White	utered) English Bulldog

#### **Cardiology Appointment Report Enrolled in DCM Study**

Date: 2/1/2019
Attending Cardiologist:  ■ John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC
B6
Cardiology Resident:
B6
Cardiology Technician:
<b>B6</b>
Student: B6 V19
Presenting Complaint: Here for possible entry to DCM study. Half-sister B6 came in last month for CHF. B6 had high proBNP on bloodwork B6 ).
Concurrent Diseases:
Concurrent Diseases:  B6
B6  General Medical History:
B6  General Medical History: Had B6 as puppy, had a fall and needed some B6 O says seen at Tufts.
B6  General Medical History:  Had B6 as puppy, had a fall and needed some B6 O says seen at Tufts.  Sedentary lifestyle, but healthy. Half- sister B6 here last month in CHF, which is what started
General Medical History: Had B6 as puppy, had a fall and needed some B6 O says seen at Tufts. Sedentary lifestyle, but healthy. Half- sister B6 here last month in CHF, which is what started concerns for DCM.
General Medical History:  Had B6 as puppy, had a fall and needed some B6 O says seen at Tufts.  Sedentary lifestyle, but healthy. Half-sister B6 here last month in CHF, which is what started concerns for DCM.  Fasted today.
General Medical History: Had B6 as puppy, had a fall and needed some B6 O says seen at Tufts. Sedentary lifestyle, but healthy. Half- sister B6 here last month in CHF, which is what started concerns for DCM.
General Medical History:  Had B6 as puppy, had a fall and needed some B6 O says seen at Tufts.  Sedentary lifestyle, but healthy. Half-sister B6 here last month in CHF, which is what started concerns for DCM.  Fasted today.
General Medical History:  Had B6 as puppy, had a fall and needed some B6 O says seen at Tufts.  Sedentary lifestyle, but healthy. Half- sister B6 here last month in CHF, which is what started concerns for DCM.  Fasted today.  Had reason for concern of DCM based on diet and sister, came in based on NTproBNP level.  Diet and Supplements:  Grain free diet- Wellness Core. Chicken and Turkey wet food 4oz BID. Fish dry food 1/4 cup BID.
General Medical History:  Had B6 as puppy, had a fall and needed some B6 O says seen at Tufts.  Sedentary lifestyle, but healthy. Half- sister B6 here last month in CHF, which is what started concerns for DCM.  Fasted today.  Had reason for concern of DCM based on diet and sister, came in based on NTproBNP level.  Diet and Supplements:
General Medical History: Had B6 as puppy, had a fall and needed some B6 O says seen at Tufts. Sedentary lifestyle, but healthy. Half-sister B6 here last month in CHF, which is what started concerns for DCM. Fasted today. Had reason for concern of DCM based on diet and sister, came in based on NTproBNP level.  Diet and Supplements: Grain free diet-Wellness Core. Chicken and Turkey wet food 4oz BID. Fish dry food 1/4 cup BID. No supplements or treats.
General Medical History:  Had B6 as puppy, had a fall and needed some B6 O says seen at Tufts.  Sedentary lifestyle, but healthy. Half- sister B6 here last month in CHF, which is what started concerns for DCM.  Fasted today.  Had reason for concern of DCM based on diet and sister, came in based on NTproBNP level.  Diet and Supplements:  Grain free diet- Wellness Core. Chicken and Turkey wet food 4oz BID. Fish dry food 1/4 cup BID.

Prior ATE? N

Prior arrhythmia?N  Monitoring respiratory rate and effort at home? N, but taking notice more after sister's CHF. O thinks 20-30 at rest.  Cough? N  Shortness of breath or difficulty breathing? Sounds raspy when anxious.  Syncope or collapse? N  Sudden onset lameness? N  Exercise intolerance? N- Normally low energy  Current Medications Pertinent to CV System:  Medication: B6  Formulation/Tab Size: 500 mg tablet  Administration Frequency: PO BID 1 tablets		
Need refills? N		
Cardiac Physical Examination:	<b>B6</b>	
Muscle condition:  Normal  Mild muscle loss	■ Moderate cachesia ■ Marked cachesia	
Cardiovascular Physical Exam:  Murmur Grade:  None  I/VI  II/VI  III/VI	rv/vi   v/vi   v/vi	
Murmur location/description:		
Jugular vein:  Bottom 1/3 of the neck  Middle 1/3 of the neck	■ 1/2 way up theneck ■ Top 2/3 of theneck	
Arterial pulses:  Weak - obese and difficult to palpate Fair Scool Strong	Bounding Pulse deficits Pulsus paradoxus Other:	
Arrhythmia:  None Sinus arrhythmia Premature beats infrequent	Bradycardia Tachycardia	
Gallop: □ Yes	Pronounced	

☑ No □ Intermittent	Other:
Pulmonary assessments:  Eupneic  Mild dyspnea  Marked dyspnea  Normal BV sounds	☐ Pulmonary crackles ☐ Wheezes ☑ Upper airway stridor ☐ Upper airway stridor
Abdominal exam:  Normal Hepatomegaly Abdominal distension mostly adipose tissue?	Mild ascites Marked ascites
<u>Problems</u> : Related dog with DCM Has a high NT-proBNP	
<u>Differential Diagnoses</u> : DCM vs other	
Diagnostic plan:  Echocardiogram  Chemistry profile  ECG Renal profile Blood pressure  Echocardiogram Findings:	☐ Dialysis profile ☐ Thoracic radiographs ☑ NT-proBNP ☑ Troponin I ☑ Other tests: Study bloodwork
	<b>B6</b>

#### Assessment and recommendations:

Findings are consistent with ARVC with concurrent LV dysfunction which is either related to ARVC or could have a component of diet-related cardiomyopathy. There was not enough arrhythmia seen today to clearly trigger antiarrhythmic therapy, but a 24 hour Holter monitor could be performed for a better assessment of arrhythmia burden, or Alivecor tracings could be evaluated serially. Recommend starting B6 Smg PO BID. Recommend switching the diet. Dog was enrolled in the DCM study, and troponin, NTproBNP, taurine levels, CBC/Chem were submitted via the study. Recheck echo, ECG, and blood work in

3, 6, and 9 months for the study. Discussed pros and cons of starting antiarrhythmic treatment today, or ACEi - owner leaning toward fewer drugs at this stage.

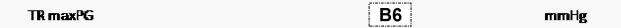
Hnai	Diagr	10515

ARVC with LV dysfunction (possible component of diet associated cardiomyopathy)

Heart Failure Classification Score:		
ISACHC Classification:		
🔲 la	🔲 IIIa	
<b>☑</b> lb	IIIb	
■ II		
ACVIM Classification:		
■ A	□ c	
■ B1.	■ D	
<b>■</b> B2		
M-Mode		
IVSd		
LVIDd		cm
LVPWd		cm
IVSs		cm
LVIDs		cm
LVPWs		cm
EDV(Teich)		cm ml
ESV(Teich)		ml
EF(Teich)	<b>B6</b>	%
%FS		%
SV(Teich)		ml
Ao Diam		cm
LA Diam		cm
LA/Ao		an .
Max LA		com.
TAPSE		cm
IAFJL	<u> </u>	cm
M-Mode Normalized		
IVSdN		(0.290 - 0.520) !
LVIDdN		(1.350 - 1.730)
LVPWdN		(0.330 - 0.530)
IVSsN	Do	(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) !
	i settem seti	-

<u>2D</u>

**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 **B6** LV Minor cm **Sphericity Index LVLd LAX** cm **LVAJ LAX** cm LVEDV A-L LAX ml **LVEDV MOD LAX** ml **LVLs IAX** cm LVAs LAX cm **LVESV A-L LAX** ml **LVESV MOD LAX** ml HR **BPM** % **EF A-L LAX LVEF MOD LAX** % SV A-L LAX ml SV MOD LAX ml CO A-L LAX l/min CO MOD LAX l/min Doppler MR Vmax m/s MR maxPG mmHg MV EVel m/s MV DecT ms MV Dec Slope m/s MV A Vel m/s MV E/A Ratio E' **B6** m/s E/E' A. m/s S' m/s **AV Vmax** m/s AV maxPG mmHg **PV Vmax** m/s PV maxPG mmHg TR Vmax m/s



## **Cummings** Veterinary Medical Center

AT TUFTS UNIVERSITY

**B6** 

2/12/2019

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,

John Rush DVM, DACVIM (Cardidogy), DACVECC

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

B6 Male (Neutered)
Canine English Bulldog
Brown/White
B6

From: B6 Dcvcavets.com>
To: Jones, Jennifer L

Sent: 5/18/2018 5:25:41 PM
Subject: DCM and Diet spreadsheet
Attachments: Diet Breakdown by Brand.xlsx

## DOCUMENT PRODUCED IN NATIVE

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:
 2/26/2019 12:01:05 PM

 Subject:
 DCM cases 2/26/2019 0700

Attachments: Instinct Original Grain Free Recipe (unkown protein source) B6 EON-380789;

Merrick Classic Real Beef + Green Peas Recipe with Ancient Grains Adult Dry Dog Food:

B6 - EON-380855; Taste of The Wild - Salmon grain free: B6 - EON-380783; Taste of The Wild PREY (unknown formula): B6 - EON-380774;

Wellness Complete Health Fish and Sweet Potato dry: Lisa Freeman - EON-380848

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





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

**Sent:** 2/26/2019 12:21:16 AM

Subject: Wellness Complete Health Fish and Sweet Potato dry: Lisa Freeman -

EON-380848

Attachments: 2063189-report.pdf; 2063189-attachments.zip

A PFR Report has been received and PFR Event [EON-380848] has been created in the EON System.

A "PDF" report by name "2063189-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 "2063189-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-380848

ICSR #: 2063189

**EON Title:** PFR Event created for Wellness Complete Health Fish and Sweet Potato dry; 2063189

AE Date	02/22/2019	Number Fed/Exposed	2
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	Boxer (German Boxer)		
Age	10.5 Years		
District Involved	PFR-New England DO		

#### **Product information**

**Individual Case Safety Report Number: 2063189** 

Product Group: Pet Food

Product Name: Wellness Complete Health Fish and Sweet Potato dry

**Description:** Arrhythmia dx at RDVM July 2018 (had been "wheezing") Started wheezing again 1 week before admission. Diagnosed with DCM, CHF, and ventricular tachycardia 2/22/19 Was fed Wellness diet until 6/2018 then changed to Royal Canin Boxer (current diet). Taurine and troponin pending. Owner has another Boxer eating same diets - has not been screened Enrolled in DCM study. Changing to different diet (although Boxer diet is probably fine) and will recheck in 7 days and 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: 2 Number of Animals Reacted With Product: 1

Product Name	Lot Number or ID	Best By Date
Wellness Complete Health Fish and Sweet Potato dry		

#### **Sender information**

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

#### Owner information

**B6** 

US*A* 

To view this PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-380848

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=397857

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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.

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Failure to adhere to the above provisions could result in removal from the approved distribution list. If you think



	380848			
ICSR:	2063189			
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:	2019-02-25 19:07:14 EST			
Reported Problem:	Problem Description:	Arrhythmia dx at RDVM July 2018 (had been "wheezing") Started wheezing again 1 week before admission. Diagnosed with DCM, CHF, and ventricular tachycardia 2/22/19 Was fed Wellness diet until 6/2018 then changed to Royal Canin Boxer (current diet). Taurine and troponin pending. Owner has another Boxer eating same diets - has not been screened Enrolled in DCM study. Changing to differen diet (although Boxer diet is probably fine) and will recheck in 7 days and 3 month		
	Date Problem Started:	02/22/2019		
	Concurrent Medical Problem:			
	Outcome to Date:	e; Stable		
Product Information:	Product Name:	Wellness Complete Health Fish and Sweet Potato dry		
	Product Type:	1	313 3113 3113	
	Lot Number:			
	Product Use Information:	Description: Fed this diet 2012 - June, 2018 Currently, fed Royal Canin		
	Manufacturer /Distributor Information:			
	Purchase Location Information:			
Animal Information:	nformation: Name: B6			
	Type Of Species:	Li		
		Boxer (German Boxe	ar)	
		r; Male		
	Reproductive Status:			
	]	t: 23.3 Kilogram		
	3	23.3 Kilograffi		
	Number of Animals Given the Product:	1 		
	Number of Animals Reacted:	1		
	Owner Information:	Owner Information provided:	Yes	
		Contact:	Name: B6	
			Email:	
		Address:	<b>B6</b>	
			United States	
	Healthcare Professional	Practice Name:	Tufts Cummings School of Veterinary Medicine	
	Information:	Contact:		
			Phone: (508) 887-4523	
			Email: lisa.freeman@tufts.edu	

Address:  Contact:  Permission To Contact Sender:  Preferred Method Of Contact:  Attachment:  Description:	Email: lisa.freeman@tufts.edu  Yes  Email  rpt_medical_record_preview small.pdf
Contact:  Permission To Contact Sender:  Preferred Method Of Contact:  Attachment:  Description:	North Grafton Massachusetts 01536 United States  Phone: 5088874523 Email: lisa.freeman@tufts.edu  Yes  Email  rpt_medical_record_preview small.pdf  Med records
Permission To Contact Sender: Preferred Method Of Contact:  Attachment: Description:	Yes  Email: lisa.freeman@tufts.edu  Yes  Email  rpt_medical_record_preview small.pdf  Med records
Sender: Preferred Method Of Contact:  Attachment: Description:	Yes  Email  rpt_medical_record_preview small.pdf  Med records
Contact:  Attachment:  Description:	rpt_medical_record_preview small.pdf  Med records
Description:	Med records
Description:	Med records
-	
Туре:	Medical Records

# Cummings Veterinary Medical Center

#### **Foster Hospital for Small Animals**

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

Client:
Address
B6

**All Medical Records** 

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

Species: Canine
Sex: Male
(Neutered)

**Referring Information** 

**B6** 

#### **Initial Complaint:**

ARVC vs. DCM with active CHF and uncontrolled Vtach.

SOAP Text B6 9:34AM - Clinician, Unassigned FHSA

#### **Subjective**

**NEW VISIT (ER)** 

**B6** 

Presenting complaint: wheezing

Referral visit? **B6** AH

Diagnostics completed prior to visit - saw this morning but referred straight here rDVM records in email

#### **HISTORY:**

Signalment: 10.5 y/o MN Boxer

**Current history:** 

In July primary vet noticed heart arrythmia during appointment, was seen then due to symptom of wheezing. rDVM Started on B6, owners gave that for a couple of weeks and wheezing resolved, owners then stoppe B6, 1 week ago started wheezing again (sporadic), became clingy and lethargic. Owner had been out of town for a week, B6 was at home with husband and owner is unsure what other symptoms B6 has. Owner's husband did restart B6 on Tuesday. No vomting/heaving. Owner reports that he is drinking water normally, but didn't finish his food this morning which is abnormal for him. Unknown diarrhea, appetite status while owner was gone.

Prior medical history: none, known B6

Client: B6
Current medications: 1/2 tablet BID (owner unsure strength), did start it on Tuesday. Took months long break of B6 due to symptoms resolving.
Diet: royal canin boxer, dry , unknown length of time (last 1.5-2 yrs) Vaccination status/flea & tick preventative use: UTD
Travel history: none
EXAM:
<b>B6</b>
C/V: II-III/VI left apical systolic murmur, arrhythmia (premature beats, intermittent gallop), fair arterial pulses
C/ V. II-III/ VI lett apical systolic murmur, armytillilla (premature beats, intermittent gallop), fair arterial pulses
<b>B6</b>
ASSESSMENT:  A1: Severe cardiomegaly with poor contractile function - r/o primary DCM, diet-induced cardiomyopathy, ARVC, tachycardiac induced cardiomyopathy.  A2: Malignant ventricular arrhythmia - non-sustained VTach and frequent polymorphic VPCs  A3: Left sided congestive heart failure.
PLAN:
B6
Treatments:
-
<b>B6</b>

### **Diagnostics completed:**

- Thoracic radiographs:
  - Cardiopulmonary changes are consistent with left-sided congestive heart failure. Given moderate generalized cardiomegaly and moderate left atrial enlargement, consider DCM given breed. Echocardiography is

ı		C
	5	O

recommended and repeat thoracic radiographs to monitor response to therapy.

- Impression of faint rounded soft tissue opacities mixed in with the intersitital pattern may represent peribronchial cuffing and end on vessels, pulmonary nodules are thought less likely. Follow-up radiographs to reassess the lungs are recommended after resolution of cardiogenic pulmonary edema.
- Concurrent mild diffuse bronchial pattern likely represents a component of lower airway disease.
- Echocardiogram:

cardiogram.
Findings consistent with DCM with active CHF and frequent ventricular arrhythmia. Patient has enough
malignant arrhythmia that hospitalization and <b>B6</b> and telemetry monitoring is recommended.
B6 2mg/kg q 4-6h is recommended for the day and depending how well he responds, maybe we can
decrease to q6-8h overnight. Patient has historically been on grain free diet for years before been switched to
current diet. It is unclear whether this is a primary DCM, ARVC with DCM phenotype, or diet-induced
cardiomyopat <u>hy, but</u> <b>B6</b> 7.5mg BID and Taurine 500mg are also recommended. Apparently patient
tolerated well <b>B6</b> in the past, but at this point this medication should ideally be avoided at this point due to
potential beta-blocker effects that may worsen systolic function. Thus, recommend bloodwork and if liver
values are normal B6 200mg BID (decreasing to SID after 5 days) should be started. Fish oil may also
be effective helping decrease ventricular arrhythmia density. Recommend addition of an B6 when
patient is eating and not azotemic. Recommend repeat echocardiogram in 3 months or sooner in case patient
develops clinical signs consistent with progression of the disease (shortness breath, collapse, syncope, exercise
intolerance, pale mucous membrane). Client can be instructed on how to use AliveCor and assess heart rate
and rhythm from home if patient at rest and calm at home.
PLAN (cardio consult):
<b>B6</b>
Kh

#### Client communication:

Discussed hospitalizing for supportive care, diagnosis (cardio consult, echo) and start treatment for CHF and underlying condition. O ok with plan. New doctor to give call in am. P enrolled in DCM study.

Deposit & estimate status B6 (O understand estimate may increase if longer hospitalization is needed)

Resuscitation code (if admitting to ICU) B6

SOAP approved (DVM to sign): **B6** 

SOAP Text B6 8:27AM B6

#### **Day 2 Hospitalization**

B6 10.5 yo MN Boxer

**HISTORY:** 

В	6
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C.U	rrer	nt n	isto	)rv:

In July primary vet noticed heart arrythmia during appointment, when he was seen then due to symptom of wheezing. rDVM started B6 and owners gave that for a couple of weeks and wheezing resolved, owners then stopped sotalol (they didn't know they were supposed to continue). About 1 week ago started wheezing again (sporadic), becaming more clingy and lethargic. Owner had been out of town for a week, B6 was at home with husband and owner is unsure what other symptoms B6 has. Owner's husband did restart B6 on Tuesday. No vomiting/heaving. Owner reports that he is drinking water normally, but didn't finish his food this morning which is abnormal for him. Unknown diarrhea, appetite status while owner was gone.

Prior medical history: none. B6

Current medications: B6 (owner unsure strength), did start it on Tuesday. Took months long break of B6 due to symptoms resolving.

<u>Diet</u>: royal canin boxer, dry , unknown length of time (last 1.5-2 yrs); was on grain free diet before this <u>Vaccination status/flea & tick preventative use</u>: UTD on vaccines

<u>Travel history</u>: none

<u>Overnight update</u>: AIVR and occasional VPCs. Not interested in food. Nauseaus last night, was given one dose of cerenia that helped a little bit. Also had 2 episodes of vtach around 7am, resolved on own.

#### EXAM:

**B6** 

C/V: II-III/VI left apical systolic murmur, arrhythmia (premature beats, intermittent gallop), fair arterial pulses

**B6** 

#### **ASSESSMENT:**

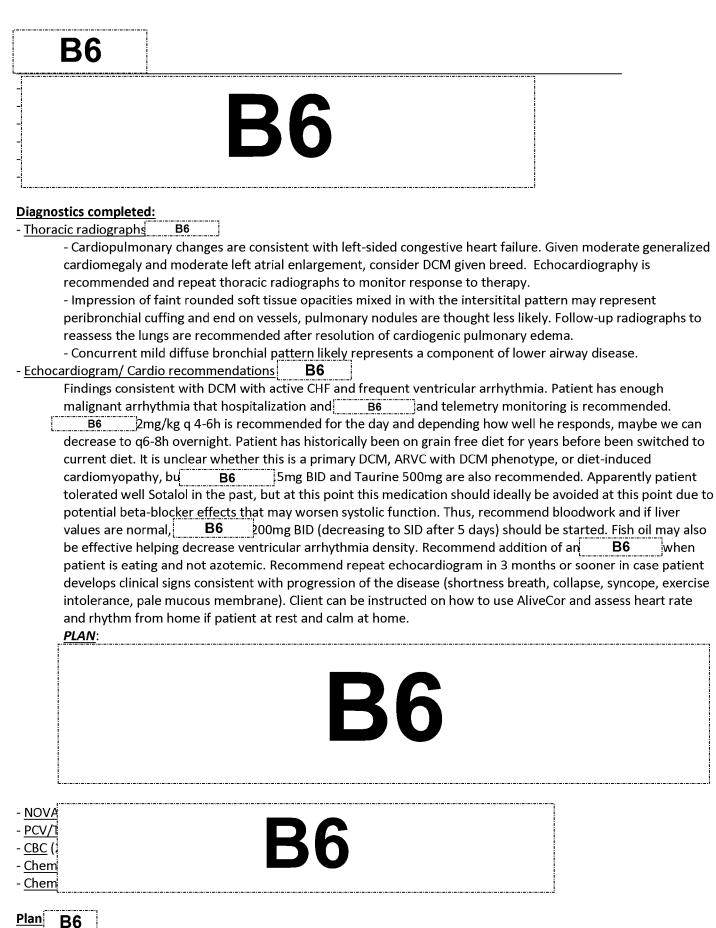
A1: Severe cardiomegaly with poor contractile function - r/o primary DCM, diet-induced cardiomyopathy, ARVC, tachycardiac induced cardiomyopathy

A2: Malignant ventricular arrhythmia - non-sustained VTach and frequent polymorphic VPCs

A3: Left sided congestive heart failure

#### PLAN:

Treatment Plan B6 (overnight)



- Re-check chemistry

B6
<b>B6</b>
B6 SOAP Text B6 9:19AM - Clinician, Unassigned FHSA
Day 3 Hospitalization  B6 10.5 yo MN Boxer
HISTORY:  Current history:  In July primary vet noticed heart arrythmia during appointment, when he was seen then due to symptom of wheezing rDVM started B6 and owners gave that for a couple of weeks and wheezing resolved, owners then stopped sota (they didn't know they were supposed to continue). About 1 week ago started wheezing again (sporadic), becaming more clingy and lethargic. Owner had been out of town for a week, B6 was at home with husband and owner is unsure what other symptoms B6 has. Owner's husband did restart B6 on Tuesday. No vomiting/heaving. Owner reports that he is drinking water normally, but didn't finish his food this morning which is abnormal for him. Unknown diarrhea, appetite status while owner was gone.
Prior medical history: none, B6 Current medications B6 (owner unsure strength), did start it on Tuesday. Took months long break of B0 due to symptoms resolving.  Diet: royal canin boxer, dry , unknown length of time (last 1.5-2 yrs); was on grain free diet before this Vaccination status/flea & tick preventative use: UTD on vaccines  Travel history: none
$\underline{\text{Overnight update}}:$ Patient starting to be a little interested in food. Arrhythmia still not well under control HR $^{\sim}$ 170-180 with intermittent R on T, pauses and AIVR, multiforme VPCs.
EXAM:
<b>B6</b>
C/V: II-III/VI left apical systolic murmur, arrhythmia (premature beats), ssfp <b>B6</b>

Page 6/85



## В6

#### **ASSESSMENT:**

A1: Severe cardiomegaly with poor contractile function - r/o primary DCM, diet-induced cardiomyopathy, ARVC, tachycardiac induced cardiomyopathy

A2: Malignant ventricular arrhythmia - non-sustained VTach and frequent polymorphic VPCs

A3: Left sided congestive heart failure

#### PLAN:

#### **Diagnostics completed:**

- Thoracic radiographs **B6** 
  - Cardiopulmonary changes are consistent with left-sided congestive heart failure. Given moderate generalized cardiomegaly and moderate left atrial enlargement, consider DCM given breed. Echocardiography is recommended and repeat thoracic radiographs to monitor response to therapy.
  - Impression of faint rounded soft tissue opacities mixed in with the intersitital pattern may represent peribronchial cuffing and end on vessels, pulmonary nodules are thought less likely. Follow-up radiographs to reassess the lungs are recommended after resolution of cardiogenic pulmonary edema.
  - Concurrent mild diffuse bronchial pattern likely represents a component of lower airway disease.

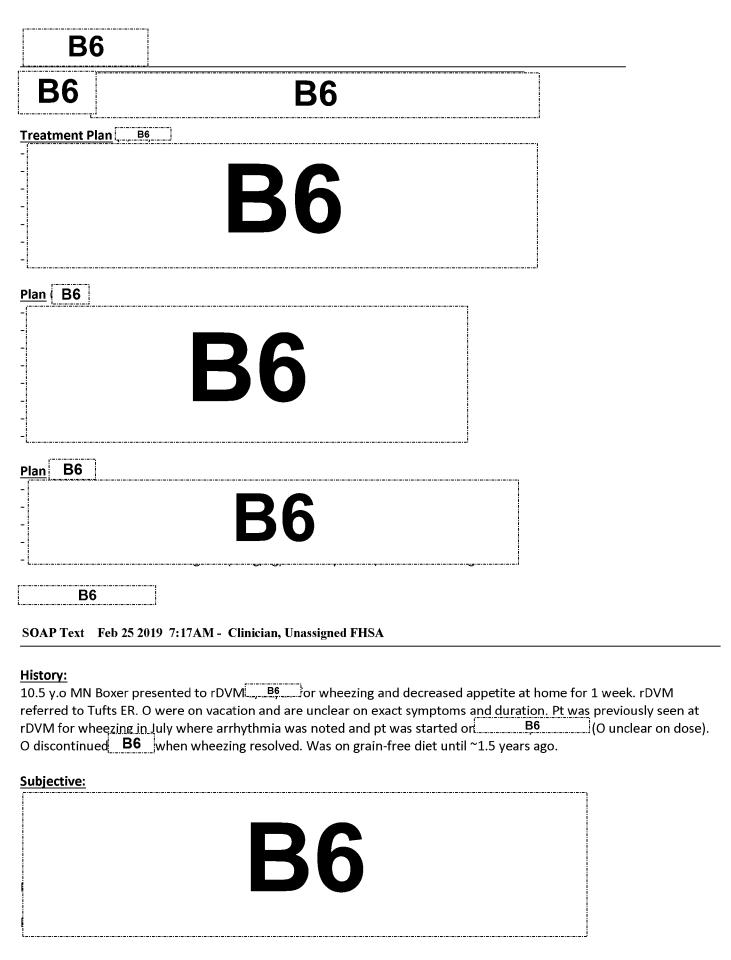
Echocardiogram/ Cardio recommendations <b>B6</b>
--

Findings consistent with DCM with active CHF and frequent ventricular arrhythmia. Patient has enough malignant arrhythmia that hospitalization and B6 and telemetry monitoring is recommended.

B6 2mg/kg q 4-6h is recommended for the day and depending how well he responds, maybe we can decrease to q6-8h overnight. Patient has historically been on grain free diet for years before been switched to current diet. It is unclear whether this is a primary DCM, ARVC with DCM phenotype, or diet-induced cardiomyopathy, but B6 7.5mg BID and Taurine 500mg are also recommended. Apparently patient tolerated wel B6 in the past, but at this point this medication should ideally be avoided at this point due to potential beta-blocker effects that may worsen systolic function. Thus, recommend bloodwork and if liver values are normal. B6 200mg BID (decreasing to SID after 5 days) should be started. Fish oil may also be effective helping decrease ventricular arrhythmia density. Recommend addition of an B6 when patient is eating and not azotemic. Recommend repeat echocardiogram in 3 months or sooner in case patient develops clinical signs consistent with progression of the disease (shortness breath, collapse, syncope, exercise intolerance, pale mucous membrane). Client can be instructed on how to use AliveCor and assess heart rate and rhythm from home if patient at rest and calm at home.

**B6** 

	BUN	creat	Na	K	CI	ALT	<u> </u>
В6				B6			



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Overall impression since arrival or since last exam:Improved since admission to ER on \_\_\_\_, <u>B6</u>, \_\_\_\_. The RR are back to normal and his has no RE. Ate for us a small amount this morning which is good. Seems slightly brighter. Telemetry revealed persistent multiform ventricular tachycardia with fast rate with no obvious improvement compared to previously.

Appetite: No immediate interest in food, ate when stimulated and hand fed.

#### Objective:

В6

Heart: Grade II-II/VI left apical systolic murmur. Multiple premature beats with short runs of sustained tachycardia. Jugular veins bottom 1/3 of the neck. Femoral pulses fair with pulses deficits.

**B6** 

**Treatments in hospital** 

**B6** 

#### **Diagnostics**

- Thoracic rads B6 Moderate generalized cardiomegaly and moderate left atrial enlargement onsistent with left-sided congestive heart failure/DCM. Cardiogenic pulmonary edema. Concurrent mild diffuse bronchial pattern likely represents a component of lower airway disease.
- Echo (Abridged due to dyspned B6 Findings consistent with DCM with active CHF and frequent ventricular arrhythmia. Severe cardiomegaly with poor contractile function.

**B6** 

#### <u>Assessments</u>

A1: DCM vs. ARVC with DCM phenotype with history of active LCHF

A2: Malignant ventricular arrhythmia - non-sustained VTach and frequent polymorphic VPCs

<u>Plan</u>

**B6** 

	B6			
		Е	36	
	В	6		
]	Disposition/Recommen	dations		

# Cummings Veterinary Medical Center

	B6
Veterinarian	:
Patient ID:	В6
Visit ID:	

## **B6**

	B6			
Species:	Canine			
Breed:	Boxer			
Sex:	Male (Neutered)			
Age:	<b>B6</b> Years Old			

### Lab Results Report

Nova Full Panel-ICU	В6	9:30:25 AM	Accession ID: B6	
Test	Results	·- <u>-</u>	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)	<b>B6</b>		12 - 28	mg/dL
CREAT (POC)			0.2 - 2.1	mg/dL
TCO2 (POC)			() - ()	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			() - ()	mmol/L
A			0 - 0	mmHg
NOVA SAMPLE			0 - 0	
		12/85	В6	

stringsoft

Printed Monday, February 25, 2019

B6	·		
iO2		0 - 0	%
CO2		36 - 44	mmHg
O2	DC	80 - 100	mmHg
Н	<b>B6</b>	7.337 - 7.467	
CO2		36 - 44	mmHg
O2		80 - 100	mmHg
ICO3		18 - 24	mmol/L
lova Full Panel-ICU	B6 9:36:12 AM	Accession ID: B6	
est	Results	Reference Range	Units
S (FHSA)		0 - 0	g/dl
CV **	B6	0 - 0	%
S (FHSA)		0 - 0	g/dl
ova Full Panel-ICU	B6 9:56:25 AM	Accession ID: B6	
est	Results	Reference Range	Units
ELUCOSE		67 - 135	mg/dL
JREA		8 - 30	mg/dL
REATININE		0.6 - 2	mg/dL
HOSPHORUS		2.6 - 7.2	mg/dL
CALCIUM2		9.4 - 11.3	mg/dL
MAGNESIUM 2+		1.8 - 3	mEq/L
'. PROTEIN		5.5 - 7.8	g/dL
LBUMIN		2.8 - 4	g/dL
BLOBULINS		2.3 - 4.2	g/dL
/G RATIO		0.7 - 1.6	
ODIUM		140 - 150	mEq/L
CHLORIDE		106 - 116	mEq/L
OTASSIUM	B6	3.7 - 5.4	mEq/L
CO2 (BICARB)		14 - 28	mEq/L
GAP		8 - 19	•
JA/K		29 - 40	
BILIRUBIN		0.1 - 0.3	mg/dL
LK PHOS		12 - 127	U/L
GGT		0 - 10	U/L
LT		14 - 86	U/L
AST		9 - 54	U/L
KK		22 - 422	U/L
CHOLESTEROL		82 - 355	mg/dL
RIGLYCERIDES		30 - 338	mg/dL mg/dl
MYLASE		409 - 1250	U/L
930 Result(s) verified		409 - 1230	U/L
200 Result(s) verified			
	13/85	B6	
stringsoft stringsoft	25,55		

OSMOLALITY (CALCULATED)	B6	291 - 315	mmol/L
Nova Full Panel-ICU	B6 12:18:25 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		2.6 - 7.2	mg/dL
CALCIUM2		9.4 - 11.3	mg/dL
MAGNESIUM 2+		1.8 - 3	mEq/L
T. PROTEIN		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
CHLORIDE		106 - 116	mEq/L
POTASSIUM		3.7 - 5.4	mEq/L
tCO2 (BICARB)	B6	14 - 28	mEq/L
AGAP		8 - 19	
NA/K		29 - 40	
T BILIRUBIN		0.1 - 0.3	mg/dL
ALK PHOS		12 - 127	U/L
GGT		0 - 10	U/L
ALT		14 - 86	U/L
AST		9 - 54	U/L
CK		22 - 422	U/L
CHOLESTEROL		82 - 355	mg/dL
TRIGLYCERIDES		30 - 338	mg/dl
AMYLASE		409 - 1250	U/L
2888 Result(s) verified			
OSMOLALITY (CALCULATED)		291 - 315	mmol/L

stringsoft

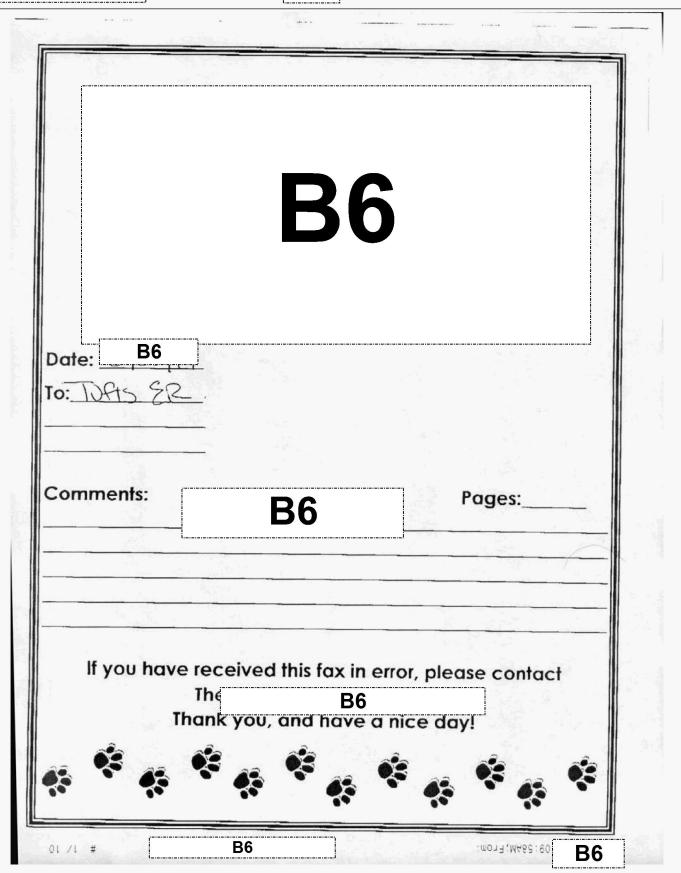
14/85

B6

Printed Monday Februar

Printed Monday, February 25, 2019

B6 medical records 7/17/16- B6



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B6 medical records 7/17/16- B6

Printed: B6 at 8:51a  B6  PATIENT INFORMATION  B6 Sex Male, Neutered B6 Birthday B6 Cotor B6 Cotor Brown Reminded 02-18-19  Reminders for B6		Species Breed Age Rabies Weight Codes	Canine Boxer 10y 1959-16 57.40 Lbs		
PATIENT INFORMATION  B6  Sex Male, Neutered Birthday B6 ID B6 Color Brown Reminded 02-18-19  Reminders for B6		Breed Age Rabies Weight	Boxer 10y 1959-16		
Reminders for B6			57.40 Lbs		
		Last	200 2 10 2		
B6 weight history	<b>B6</b>	, 			
<b>B6</b>					
MEDICAL HISTORY - S.Q.A.P.	View				
Date By		ription	Qty (Var	iance) Photo	
SUBJECTIVE SECTION	-	B6			

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В6

medical records 7/17/16 B6

	36				
Date: B6	ime: 8:51a			<u> </u>	86 Page: 2
Doto		Code	Occariation	Ob. Marianas), Dh.	
Date	Ву	Code	Description	Oty (Variance) Pho	to
	collapsing episode arrhythmia at visits occasions but has profound arrhythm continued long-ten condition at home - a light wheeze-lik	has been as in 2014 in a since 2015 always been and stopp has declined to outward or and exercise and exercis	coughing at night and get our records (owner does s. ARVC and cardiologist in n declined. B6 s where were unaware that used it a long time ago bec d in the last week or two a	tently throughout the day, but mostly	es of asculted an numerous 3 due to a re home. His
	- appente is decre.	aseu			
OBJECTIVE	SECTION				
	Quiet, nervous				
Eva	mination Results:				
CAG	Heart				
			B	6	
					=
	N				
	Ų				j
ASSESSMEN	IT SECTION				
	ES				
NOT	10 - OM B				
	10yo CM Boxer - hx cardiac arrhyth	nmia (not wo	orked up): suspect ARVC		
	- hx cardiac arrhyth			r/o primary pulmonary pathology	
	- hx cardiac arrhyth - new heart murmu			r/o primary pulmonary pathology	
PLAN SECTI	- hx cardiac arrhyth - new heart murmu			r/o primary pulmonary pathology	
	- hx cardiac arrhyth - new heart murmu			r/o primary pulmonary pathology	
PLAN SECTION NOT	- hx cardiac arrhyth - new heart murmu ON ES Discussed with and I fear that he is him started on med Things are now an (understanding dog	B6 is s currently in dication whice emergency, gs with ARV	y crackles: suspect CHF certainly has ARVC which heart failure. He needs t th may help improve hear B6 will bring him to Tuff C are ALWAYS at risk of	has never been worked up with a ca to be evaluated by a cardiologist AS/ t function and lessen frequency of a ts. Discussed that if he seems "stabl sudden death) and/or owner has fin- se (admit through the ER for the day	AP to get rrhythmia. e" ancial
PLAN SECTION NOT	- hx cardiac arrhyth - new heart murmu ON ES Discussed with and I fear that he is him started on med Things are now an (understanding dog	B6 is s currently in dication whice emergency, gs with ARV	y crackles: suspect CHF certainly has ARVC which heart failure. He needs t th may help improve hear B6 will bring him to Tuff C are ALWAYS at risk of	has never been worked up with a ca to be evaluated by a cardiologist AS/ t function and lessen frequency of a ts. Discussed that if he seems "stabl sudden death) and/or owner has fine	AP to get rrhythmia. e" ancial
PLAN SECTION NOT	- hx cardiac arrhyth - new heart murmu ON ES Discussed with and I fear that he is him started on med Things are now an (understanding dog	B6 is s currently in dication whice emergency, gs with ARV	y crackles: suspect CHF certainly has ARVC which heart failure. He needs t th may help improve hear B6 will bring him to Tuff C are ALWAYS at risk of	has never been worked up with a ca to be evaluated by a cardiologist AS/ t function and lessen frequency of a ts. Discussed that if he seems "stabl sudden death) and/or owner has fine	AP to get rrhythmia. e" ancial

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B6 medical records 7/17/16- B6

B	6			B6	
Date	Ву	Code	Description	Qty (Variance) Photo	Page: 3
	cardiac workup and monitoring overnion B6	home on or	al meds). If he seems unsta	ble they may recommend admission for ics since Tufts will repeat these anyway.	
			DC		
			<b>B6</b>		

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B6 medical records 7/17/16 B6

**B6** Page: 4 Date Code Description Qty (Variance) Photo **B6 B6** 01/9 # **B6** :mo14;MA88:

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B6 medical records 7/17/16- B6

Ву

Code

Description

**B6** 

Date

B6 P200

Qty (Variance) Photo

**B6** 

01 /9 #

В6

: MA82: 90;

B6

B6 medical records 7/17/16 B6

**B6** Date Code Description Qty (Variance) Photo **B6** 01 // # **B6** :MA83:90; **B6** 

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B6 medical records 7/17/16- B6

В6 Date Ву Code Description Qty (Variance) Photo **B6** PLAN SECTION NOTES В6 :MA88:80;8f В6 01 /8 #

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B6 medical records 7/17/16 B6

**B6** 

Date By Code Description

Qty (Variance) Photo

Page: 8

**B6** 

ASSESSMENT SECTION

01 /6 #

**B6** 

:mo14;MA88:80

**B6** 

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B6 medical records 7/17/16 B6

B6

Date By Code Description Qty (Variance) Photo

B6
Page: 9

01 /01 #

:mo14;MA88:9( B6

**B6** 

CBC/Chem

**B6** 

This report continues... (Final)



#### Tufts Cummings School Of Veterinary Medicine

200 Westboro Road North Grafton, MA 01536

#### DUPLICATE

į В6		D6
Patient ID: B6	Sex: CM	D0
Phone number:	Age: 10	Sample ID: 1902220072
Collection Date: Do 119 12:37 PM	Species: Canine	30 000 10 € 0000 00 000 000 000 000 000 0
Approval date: B0 19 1:35 PM	Breed: Boxer	

#### CBC, Comprehensive, Sm Animal (Research) SMACHUNSKI Ref. Range/Males WBC (ADVIA) 4.40-15.10 K/uL RBC (Advia) 5.80-8.50 M/uL Hemoglobin (ADVIA) 13.3-20.5 g/dL 39-55% Hematocrit (Advia) MCV (ADVIA) 64.5-77.5 fL MCH (ADVIA) 21.3-25.9 pg CHCM MCHC (ADVIA) 31.9-34.3 g/dL RDW (ADVIA) 11.9-15.2 Platelet Count (Advia) 173-486 K/uL 02/22/19 1:35 PM Mean Platelet Volume 8.29-13.20 fl (Advia) 02/22/19 1:13 PM Platelet Crit 0.129-0.403 % 02/22/19 1:13 PM PDW Reticulocyte Count (Advia) 0.20-1.60% Absolute Reticulocyte 14.7-113.7 K/uL Count (Advia) CHr Microscopic Exam of Blood Smear (Advia) SMACHUNSKI Ref. Range/Males Seg Neuts (%) 43-86% 7-47% Lymphocytes (%) Monocytes (%) 1-15% Nucleated RBC 0-1 /100 WB C H 02/22/19 1:13 PM Seg Neutrophils (Abs) 2.800-11.500 K/ul Advia Lymphs (Abs) Advia 1.00-4.80 K/uL L Mono (Abs) Advia 0.10-1.50 K/uL WBC Morphology Sample ID: 1902220072/1 Reviewed by: \_

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#### Tufts Cummings School Of Veterinary Medicine

200 Westboro Road North Grafton, MA 01536

	IC	

B6		DC
Patient ID: B6	Sex: CM	В6
Phone number:	Age: 10	Sample ID: 1902220072
Collection Date De 12:37 PM	Species: Canine	
Approval date: DO 1:35 PM	Breed: Boxer	

#### Microscopic Exam of Blood Smear (Advia) (cont'd) SMACHUNSKI Ref. Range/Males B6 **Echinocytes** Research Chemistry Profile - Small Animal (Cobas) CSTCYR Ref. Range/Males Glucose 67-135 mg/dL Urea 8-30 mg/dL $0.6\text{-}2.0\,\text{mg/dL}$ Creatinine 2.6-7.2 mg/dL Phosphorus 9.4-11.3 mg/dL Calcium 2 Magnesium 2+ 1.8-3.0 mEq/L Total Protein 5.5-7.8 g/dL Albumin Η 2.8-4.0 g/dL 2.3-4.2 g/dL Globulins A/G Ratio 0.7 - 1.6Sodium Η 140-150 mEq/L Chloride L 106-116 mEq/L Potassium 3.7-5.4 mEq/L tCO2(Bicarb) **B6** 14-28 mEq/L AGAP 8.0-19.0 NA/K 29-40 Total Bilirubin 0.10-0.30 mg/dL Alkaline Phosphatase 12-127 U/L 0-10 U/L GGT ALT Η 14-86 U/L AST 9-54 U/L Creatine Kinase 22-422 U/L Cholesterol 82-355 mg/dL Triglycerides 30-338 mg/dl Amylase 409-1250 U/L Osmolality (calculated) 291-315 mmol/L

Reviewed by:
Page 2

**IDEXX BNP -**

**B6** Client B6 Patient B6 **B6** IDEXX VetConnect 1-888-433-9987 Date B6 Requisition #: 439993 TUFTS UNIVERSITY **B6** 200 WES TBORO RD NORTH GRAFTON, Massachusetts 01536 Species: CANINE Breed: BOXER B6 508-839-5395 B5 Gender: MALE NEUTERED Age: 11Y Account #88933 CARDIOPET proBNP - CANINE CARDIOPET proBNP HIGI **B6** 0 - 900 pmol/L **B6** - CANINE Comments:

Page 1 of 1

В6

	Please answer the follo		_	ur pet	LL COUSIDER WITH
ť	s name: <b>B6</b> Owner's name : ,	В	6	Today's	date B6
	How would you assess your pet's appetite? (mark the po Example: Poor	oint on the line t	elow that bes	t represents yo Excellent	ur pet's appetite)
	Poor			Excellent	
		,			
i	Have you noticed a change in your pet's appetite over th □Eats about the same amount as usual □Eats less □Seems to prefer different foods than usual □Other_	than usual			1
	Over the last few weeks, has your pet (check one) □Lost weight □Gained weight □Stayed about the	same weight	□Don't know		
	Please list below <u>ALL</u> pet foods, people food, treats, sna currently eats and that you have fed in the last 2 years.			_	
	Please provide enough detail that we could go to the sto				
H	Food (include specific product and flavor)  Nutro Grain Free Chicken, Lentil, & Sweet Potato Adult	Form	Amount	How often?	Jan 2016-present
	85% lean hamburger	dry microwaved	1 ½ cup 3 oz	2x/day 1x/week	June -Aug 2016
	Pupperoni original beef flavor	treat	1/2	1x/day	Sept 2016-present
	Rawhide	treat	6 inch twist	1x/week	Dec 2018-present
1	NPILLIPESS COMPLETE HEALTH - SWEET HISK	dru	1040	34 D3V	2002-2018
	Mother Hubbywas Granfiele	dnl	1000	24/1204	2008-2012
	Milkbone bushing Chews	Treat	100	TIMEU	7018-2019
33.	Milkhone treat	Trants		2-3 × 001	Canatirie.
	ROUNI Canine BOXER	Dru	1 CHAO	JAGO LAG	6/2018-0105A
	INPLEMENTS SOFT BITCH LAMBITSOMO	4144	1247	3-21 1200	Tracks pira
Г	avainflee	TREAS		IXDAI	Lonatine
		ample: vitamins	, glucosamine ve brands and	, fatty acids, or amounts:	any other  Amount per day
	Taurine         □Yes □No				
	Antioxidants				
	Marie de anti-			-	
	Fish oil Yes ANO				
	Coenzyme Q10 □Yes-□No			_	
	Other (please list): Example: Vitamin C Na	ture's Bounty		500 mg	g tablets – 1 per day
	How do you administer pills to your pet?  I do not give any medications  I put them directly in my pet's mouth without food  I put them in my pet's dog/cat food		h	THU SWITCH	+ TO RC CHRINTE

#### Vitals Results

	10:25:01 AM	Lasix treatment note		7
	10:36:48 AM	Weight (kg)		
	10:58:00 AM	Lasix treatment note		
	12:43:21 PM	Eliminations		
	12:43:37 PM	Nursing note		-
	10 44 00 D) (	O VICTURE 1 (ODD) 1		
	12:44:22 PM	Quantify IV Fluids (CRI) in mls		n
	12:50:46 PM	Cardiac rhythm		
	12:50:47 PM	Heart Rate (/min)		
	12:52:26 PM	Respiratory Rate		
	1:00:33 PM	Eliminations		
	1:10:19 PM	Quantify IV Fluids (CRI) in mls		
	1:10:20 PM	Catheter Assessment		
	2:03:55 PM	Cardiac rhythm		
	2:03:56 PM	Heart Rate (/min)		
	2:04:50 PM	Respiratory Rate		
	2:25:32 PM	Lasix treatment note		
	2:40:57 PM	Eliminations		
DC	3:00:23 PM	Cardiac rhythm	<b>B6</b>	
<b>B6</b>	3:00:24 PM	Heart Rate (/min)		
	3:01:00 PM	Respiratory Rate		
	3:49:48 PM	Cardiac rhythm		
	3:49:49 PM	Heart Rate (/min)		
	3:50:33 PM	Respiratory Rate		
	4:05:52 PM	Eliminations		
	4:07:29 PM	Eliminations		
	4:07:44 PM	Nursing note		
	4:31:46 PM	Nursing note		
	5:00:16 PM	Cardiac rhythm		
	5:00:17 PM	Heart Rate (/min)		
	5:05:10 PM	Respiratory Rate		ĺ
	5:38:29 PM	Eliminations		
	5:38:44 PM	Amount eaten		
	5:55:28 PM	Nursing note		
	6:03:19 PM	Cardiac rhythm		
	6:03:20 PM	Heart Rate (/min)		
	6:04:06 PM	Respiratory Rate		
	6:24:06 PM	Quantify IV Fluids (CRI) in mls		

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Vital	L	Dogs	140
VITA	IS.	Kesi	HTS

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### Vitals Results

		í
3:41:17 AM	Respiratory Rate	
3:41:27 AM	Eliminations	
4:49:07 AM	Cardiac rhythm	
4:49:08 AM	Heart Rate (/min)	
4:49:51 AM	Respiratory Rate	
5:28:53 AM	Respiratory Rate	
5:29:07 AM	Quantify IV Fluids (CRI) in mls	
5:29:08 AM	Catheter Assessment	
5:36:36 AM	Temperature (F)	
5:56:48 AM	Cardiac rhythm	
5:56:49 AM	Heart Rate (/min)	
6:56:08 AM	Cardiac rhythm	
6:56:09 AM	Heart Rate (/min)	
6:56:56 AM	Respiratory Rate	
7:37:07 AM	Weight (kg)	
7:37:52 AM	Eliminations	
7:58:21 AM	Cardiac rhythm	
7:58:22 AM	Heart Rate (/min)	
7:59:12 AM	Respiratory Rate	<b>B6</b>
<b>B6</b> 9:09:20 AM	Cardiac rhythm	50
9:09:21 AM	Heart Rate (/min)	
9:33:45 AM	Respiratory Rate	
10:02:14 AM	Cardiac rhythm	
10:02:15 AM	Heart Rate (/min)	
10:05:31 AM	Respiratory Rate	
10:05:43 AM	Catheter Assessment	
10:05:50 AM	Lasix treatment note	
11:06:13 AM	Cardiac rhythm	
11:06:14 AM	Heart Rate (/min)	
11:07:32 AM	Respiratory Rate	
11:27:21 AM	Eliminations	
11:27:43 AM	Amount eaten	
12:23:03 PM	Cardiac rhythm	
12:23:04 PM	Heart Rate (/min)	
12:26:12 PM	Respiratory Rate	
1:04:31 PM	Cardiac rhythm	
1:04:32 PM	Heart Rate (/min)	
1:05:24 PM	Respiratory Rate	
1:20:37 PM	Catheter Assessment	

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Vitals Results	Vitals	Results	
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			,,
	1:55:09 PM	Cardiac rhythm	
	1:55:10 PM	Heart Rate (/min)	
	1:55:50 PM	Respiratory Rate	
	2:52:23 PM	Cardiac rhythm	
	2:52:24 PM	Heart Rate (/min)	
	2:53:23 PM	Respiratory Rate	
	3:12:08 PM	Eliminations	
	3:50:24 PM	Respiratory Rate	
	3:50:40 PM	Cardiac rhythm	
	3:50:41 PM	Heart Rate (/min)	
	4:49:31 PM	Respiratory Rate	
	4:54:01 PM	Cardiac rhythm	
	4:54:02 PM	Heart Rate (/min)	
	5:22:43 PM	Catheter Assessment	
	5:33:09 PM	Amount eaten	
	5:46:40 PM	Respiratory Rate	
	5:46:52 PM	Cardiac rhythm	
	5:46:53 PM	Heart Rate (/min)	
	6:00:15 PM	Amount eaten	
	6:20:32 PM	Lasix treatment note	<b>D</b>
Bb	6:30:51 PM	Eliminations	<b>B6</b>
	7:00:21 PM	Cardiac rhythm	
	7:00:22 PM	Heart Rate (/min)	
	7:08:36 PM	Respiratory Rate	
	8:00:49 PM	Eliminations	
	8:07:32 PM	Cardiac rhythm	
	8:07:33 PM	Heart Rate (/min)	
	8:08:32 PM	Respiratory Rate	
	9:00: <b>28</b> PM	Cardiac rhythm	
	9:00: <b>2</b> 9 PM	Heart Rate (/min)	
	9:06:37 PM	Respiratory Rate	
	9:17:59 PM	Catheter Assessment	
	9:36:52 PM	Eliminations	
	9:40:20 PM	Respiratory Rate	
	9:41:25 PM	Cardiac rhythm	
	9:41:26 PM	Heart Rate (/min)	
	11:21:33 PM	Cardiac rhythm	
	11:21:34 PM	Heart Rate (/min)	
	11:22:05 PM	Respiratory Rate	
	11:24:38 PM	Amount eaten	
	11:27:39 PM	Weight (kg)	
		D 22/95	

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1	/ita	Ì٩	Re	211	lts

	12:10:14 AM	Cardiac rhythm		
	12:10:15 AM	Heart Rate (/min)		
	12:10:41 AM	Respiratory Rate		
	1:02:51 AM	Catheter Assessment		
	1:03:53 AM	Cardiac rhythm		
	1:03:54 AM	Heart Rate (/min)		
	1:04:19 AM	Respiratory Rate		
	1:05:57 AM	Eliminations		
	1:22:13 AM	Respiratory Rate		
	1:22:23 AM	Eliminations		
	1:22:32 AM	Nursing note		
	1:57:47 AM	Lasix treatment note		
	2:00:09 AM	Cardiac rhythm		
	2:00:10 AM	Heart Rate (/min)		
	2:59:53 AM	Cardiac rhythm		
	2:59:54 AM	Heart Rate (/min)		
	3:03:46 AM	Respiratory Rate		
	3:04:41 AM	Eliminations		
	3:51:27 AM	Respiratory Rate		
DC	3:58:14 AM	Cardiac rhythm	<b>B6</b>	
<b>B6</b>	3:58:15 AM	Heart Rate (/min)	DO	
	4:58:50 AM	Catheter Assessment		
	5:06:40 AM	Weight (kg)		
	5:06:48 AM	Eliminations		
	5:06:59 AM	Temperature (F)		
	5:08:17 AM	Cardiac rhythm		
	5:08:18 AM	Heart Rate (/min)		
	5:08:31 AM	Respiratory Rate		
	5:14:08 AM	Amount eaten		
	5:48:40 AM	Cardiac rhythm		
	5:48:41 AM	Heart Rate (/min)		
	5:48:58 AM	Respiratory Rate		
	6:48:56 AM	Cardiac rhythm		
	6:48:57 AM	Heart Rate (/min)		
	6:49:50 AM	Respiratory Rate		
	7:40:17 AM	Eliminations		
	8:00:06 AM	Cardiac rhythm		
	8:00:07 AM	Heart Rate (/min)		
	8:01:08 AM	Respiratory Rate		
	9:04:42 AM	Respiratory Rate		
<u> </u>	9:10:17 AM	Cardiac rhythm		

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#### Vitals Results

Ī T	9:10:18 AM	Heart Rate (/min)	
	9:53:51 AM	Cardiac rhythm	
	9:53:52 AM	Heart Rate (/min)	
	10:00:19 AM	Respiratory Rate	
	10:01:0 <b>2</b> AM	Lasix treatment note	
	10:01:17 AM	Catheter Assessment	
	10:02:17 AM	Eliminations	
	11:05:02 AM	Respiratory Rate	
	11:06:36 AM	Cardiac rhythm	
	11:06:37 AM	Heart Rate (/min)	
	11:31:26 AM	Amount eaten	
	12:11:21 PM	Cardiac rhythm	
	12:11:22 PM	Heart Rate (/min)	
	12:13:06 PM	Respiratory Rate	
	12:55:17 PM	Respiratory Rate	
	12:55:33 PM	Cardiac rhythm	
	12:55:34 PM	Heart Rate (/min)	
	12:59:07 PM	Eliminations	
B	<b>36</b> 12:59:18 PM	Catheter Assessment	<b>B6</b>
	1:49:53 PM	Respiratory Rate	
	1:50:09 PM	Cardiac rhythm	
	1:50:10 PM	Heart Rate (/min)	
	3:10:31 PM	Respiratory Rate	
	3:11:24 PM	Cardiac rhythm	
	3:11:25 PM	Heart Rate (/min)	
	1:04:23 PM	Cardiac rhythm	
	1:04:24 PM	Heart Rate (/min)	
	4:04:40 PM	Respiratory Rate	
	5:04:41 PM	Cardiac rhythm	
	5:04:42 PM	Heart Rate (/min)	
	5:04:55 PM	Respiratory Rate	
	5:11:38 PM	Eliminations	
	5:19:41 PM	Amount eaten	
	5:31:53 PM	Amount eaten	
	5:35:31 PM	Catheter Assessment	
	5:57:20 PM	Cardiac rhythm	
	5:57:21 PM	Heart Rate (/min)	
	5:57:37 PM	Respiratory Rate	<u>[</u> j

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tals Results		
7:23:42 PM	Cardiac rhythm	
7:23:43 PM	Heart Rate (/min)	
7:24:28 PM	Respiratory Rate	
7:56:19 PM	Cardiac rhythm	
7:56:20 PM	Heart Rate (/min)	
7:56:35 PM	Respiratory Rate	
8:11:41 PM	Eliminations	
8:11:50 PM	Weight (kg)	
8:46:12 PM	Cardiac rhythm	
9:17:13 PM	Catheter Assessment	
9:17:21 PM	Lasix treatment note	
9:18:03 PM	Cardiac rhythm	
9:18:04 PM	Heart Rate (/min)	
9:19:25 PM	Respiratory Rate	
9:23:52 PM	Weight (kg)	
9:24:05 PM	Eliminations	
9:53:36 PM	Cardiac rhythm	
9:53:37 PM	Heart Rate (/min)	
9:53:49 PM	Respiratory Rate	
11:08:13 PM	Cardiac rhythm	DC
<b>36</b> 11:08:14 PM	Heart Rate (/min)	<b>B6</b>
11:08:51 PM	Respiratory Rate	
11:09:13 PM	Amount eaten	
12:11:22 AM	Cardiac rhythm	
12:11:23 AM	Heart Rate (/min)	
12:12:14 AM	Respiratory Rate	
12:50:11 AM	Cardiac rhythm	
12:50:12 AM	Heart Rate (/min)	
12:50:28 AM	Respiratory Rate	
12:50:56 AM	Catheter Assessment	
2:11:35 AM	Cardiac rhythm	
2:11:36 AM	Heart Rate (/min)	
2:12:04 AM	Eliminations	
2:15:50 AM	Respiratory Rate	
3:09:06 AM	Cardiac rhythm	
3:09:07 AM	Heart Rate (/min)	
3:09:21 AM	Respiratory Rate	
4:42:38 AM	Cardiac rhythm	
4:42:39 AM	Heart Rate (/min)	
4:42:59 AM	Respiratory Rate	
5:32:29 AM	Catheter Assessment	

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5:32:40 AM	Respiratory Rate	
5:32:49 AM	Cardiac rhythm	
5:32:50 AM	Heart Rate (/min)	
) 5:41:15 AM	Eliminations	
5:41:26 AM	Weight (kg)	
5:45:16 AM	Temperature (F)	
5:45:27 AM	Amount eaten	
5:58:53 AM	Cardiac rhythm	
) 5:58:54 AM	Heart Rate (/min)	
5:59:10 AM	Respiratory Rate	
7:26:07 AM	Respiratory Rate	
7:28:28 AM	Cardiac rhythm	
7:28:29 AM	Heart Rate (/min)	
7:52:07 AM	Cardiac rhythm	
7:52:08 AM	Heart Rate (/min)	
7:54:41 AM	Respiratory Rate	
9:01:52 AM	Cardiac rhythm	
9:01:53 AM	Heart Rate (/min)	
9:09:06 AM	Respiratory Rate	
9:22:41 AM	Eliminations	
36 10:03:30 AM	Cardiac rhythm	<b>B6</b>
10:03:31 AM	Heart Rate (/min)	
10:21:53 AM	Catheter Assessment	
10:22:05 AM	Respiratory Rate	
10:25:31 AM	Lasix treatment note	
10:51:49 AM	Cardiac rhythm	
10:51:50 AM	Heart Rate (/min)	
10:57:46 AM	Respiratory Rate	
12:03:00 PM	Cardiac rhythm	
12:03:01 PM	Heart Rate (/min)	
12:03:41 PM	Respiratory Rate	
12:59:10 PM	Cardiac rhythm	
12:59:11 PM	Heart Rate (/min)	
1:00:11 PM	Respiratory Rate	
1:06:35 PM	Eliminations	
1:07:04 PM	Catheter Assessment	
1:58:26 PM	Cardiac rhythm	
1:58:27 PM	Heart Rate (/min)	
1:59:52 PM	Respiratory Rate	
2:49:26 PM	Cardiac rhythm	

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B6		
Vitals Results		
2:49:27 PM	Heart Rate (/min)	
2:49:40 PM	Respiratory Rate	-

Cardiac rhythm

Heart Rate (/min) Respiratory Rate **B6** 

**B6** 3:47:30 PM

3:47:31 PM

3:47:42 PM

В6

B6 11:43:38 AM

Tufts University Tufts Cummings School of Vet Med Cardiology

В6

B6 11:45:45 AM

Page 1 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

Page 2 of 2

B6 11:45:45 AM Page 2 of Tufts University
Tufts Cummings School of Vet Med Cardiology

**ECG** from Cardio

В6

B6

46:06 AM
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Tufts Cummings School of Vet Med Cardiology

12 Lead; Standard Placement

B6

B6 11:46:06 AM
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Tufts Cummings School of Vet Med Cardiology

**ECG** from Cardio

В6

B6 11:48:08 AM
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Tufts Cummings School of Vet Med Cardiology

**B6** 

1:50:34 AM

Tufts University Tufts Cummings School of Vet Med Cardiology

**B6** 

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#### **Patient History**

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	10:10 AM	UserForm	
	10:16 AM	Purchase	
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#### **Patient History**

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#### **Patient History**

	02:39 AM	Vitals	
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	03:36 AM	Vitals	
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	05:28 AM	Treatment	
	05:28 AM	Vitals	
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**Patient History** 

	07:59 AM	Vitals	
	09:02 AM	Treatment	
	09:05 AM	Prescription	
	09:09 AM	Treatment	
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**Patient History** 

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#### **Patient History**

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Patient History

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#### **Patient History**

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#### **Patient History**

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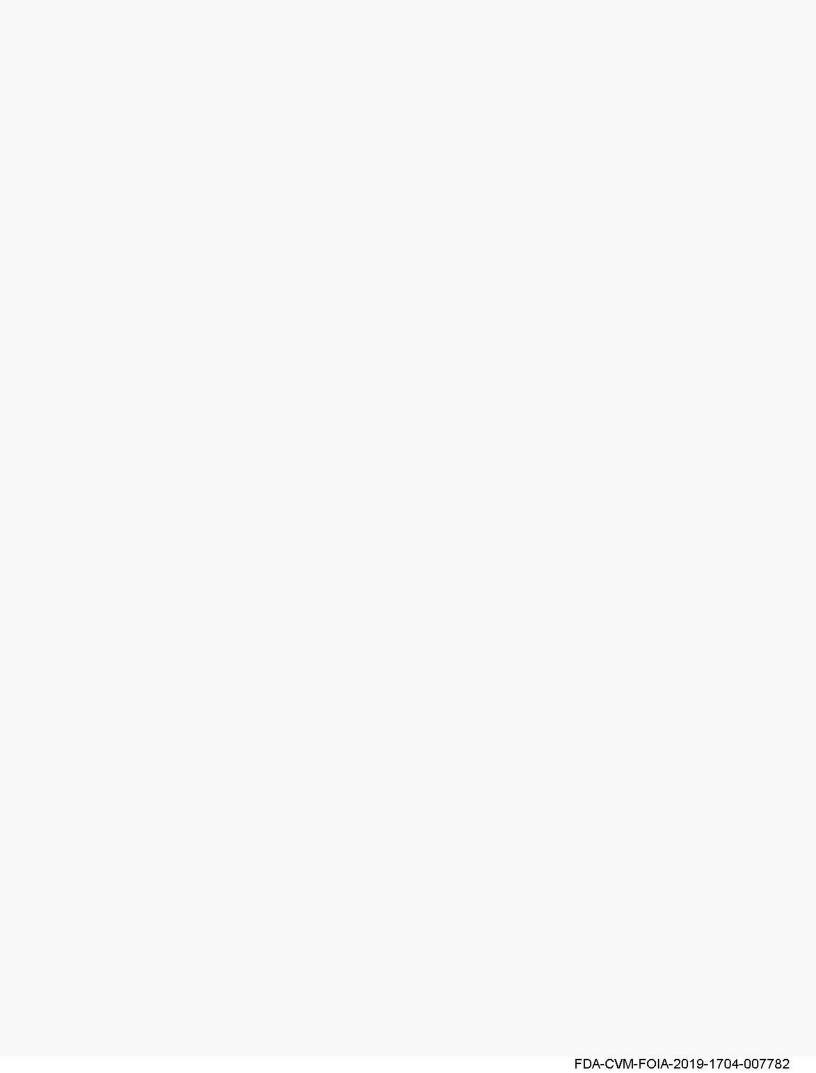
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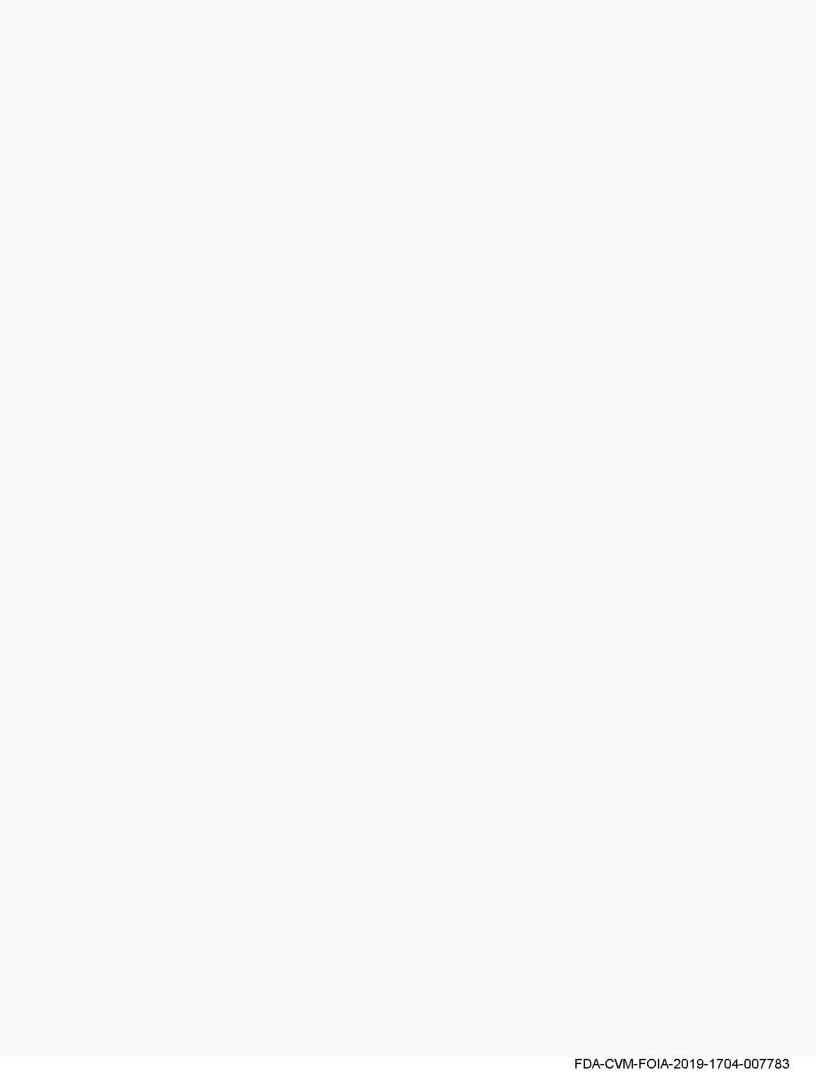
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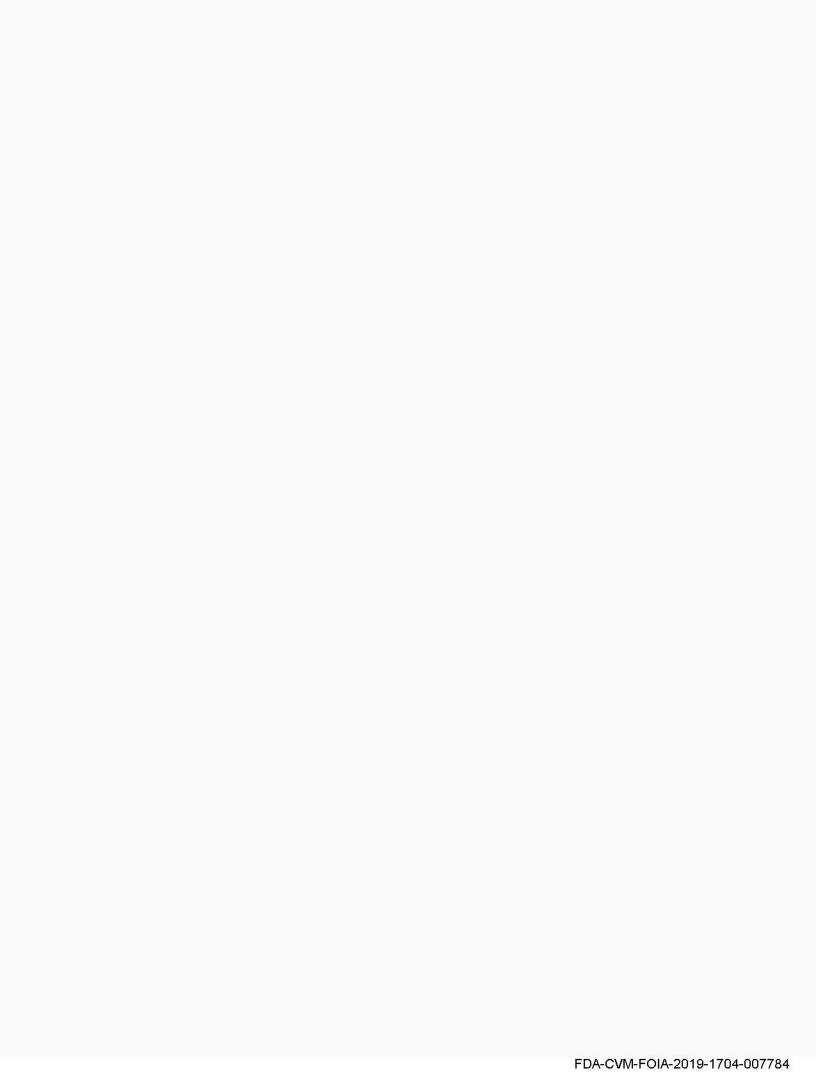
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**Patient History** 

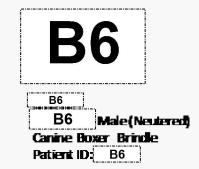
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# Cummings Veterinary Medical Center



#### 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 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.

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.

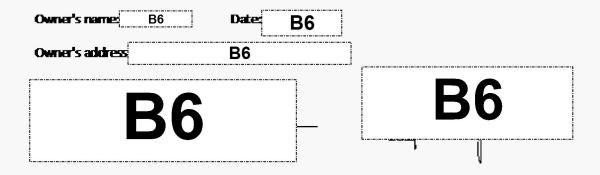
I hereby grant to the Cummings School of Veterinary Medicine at Tufts University, its officers and employees (collectively referred to herein as Cummings School), and its agents and assigns (the Grantees) the irrevocable rights to photograph / videotape the operation or procedure to be performed, including 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.

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 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.



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

The owner of the animal, B6 has granted me authority to obtain medical treatment and to bind this owner to pay the veterinary medical services provided at Cummings School pursuant to the terms and conditions described about						
Authorized Agent -	Please Print		Agent's Signature			
Street Address			Date			
Town/City	State	Zip	-			

## Cummings Veterinary Medical Center

#### **Foster Hospital for Small Animals**

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

### Treatment Plan

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 Qty	Low Extended	HighQty	High Extended
B6	Hospitalization for a few days of supportive care (EKG monitoring, medications) and diagnostic tests (bloodwork, x-rays, cardiology consultation, echocardiogram, EKG)	1.00	B6	1.00	B6

**B6** Doctor of Record l understand that no guarantee of successful treatment is made. I certify that I have read and fully High Total understand the authorization for medical and/or surgical treatment, the reason for why such medical Low Total and/or surgical treatment is considered necessary, as well as its advantages and possible complications, if any. I also assume financial responsibility for all charges incurred to this patient(s). I 75% Deposit agree to pay 75% of the estimated cost at the time of admission. Additional deposits will be required if additional care or procedures are required. I further agree to pay the balance of the charges when this patient(s) is released. Procedural billing is inclusive up to and including the estimated duration of hospitalization. There will be additional expenses if hospitalization extends beyond the specified duration. I have read, understand, and agree to accept the conditions of this treatment plan. Thank you for entrusting us with your pets care. Page 1/1 **B6** Printed

# 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://webmed.tufts.edu/

#### Radiology Request & Report

В6		Owner	B6	Patient II): B6	-1
Species: Canine BrindleMale (Neutered) Boxer Birthdale: B6		Address	В6	Date of request B6	
Attending Clinicia		B6		Student	
Date of exam:	В6		é		
Patient Location	anc Ward/Cage	2:		Weight(lbs) 0.00	
☐ Inpatie: ☐ Outpati ☐ Waiting ☐ Emerge	ient Time: S			OBAG or/Butorphanol a to sedate/anesthetize	
Examination D 3 view chest	esired:				
Presenting Con Emergency	mplaint and Cl	inical Quest	ions you wish to :	answer:	
arrythmia due to resolved, stopper vombing/heaving while owner was	wnerhas been g symptom of who d B6 1 week drinking water,	ezing, rDVM ago started w didn't finish fi	Started or B6 o heezing again (spora ood this morning wh	ne with husband. In July prin whers gave that for a couple idic), became clingy and leth idh is abnormal. unknown dia	weeks and wheezing irgic. No
Findings: THORAX, THRE	F VIFWS.				

There is increased interstitial opacity within the caudodorsal lung fields that also extends into the caudoventral lung field and cranial lung lobes. Additionally within this interstitial opacity there is a mild bronchial pattern and the impression of faint rounded soft tissue opacities. This interstitial pattern

overall is causing decreased conspicuity of the caudal lobar vessels and blurring of the caudodorsal cardiac silhouette. There is moderate left atrial enlargement and a small bulge in the 1-2o'clock range on the DV projection consistent with mild left auricular apendage enlargement. The right heart is rounded on the DV and right lateral projection with the impression of increased sternal contact. The cranial lobar vein on the left lateral projection and the right caudal pulmonary veins are mildly distended compared to the arteries. The mediastinum and pleural space are normal.

The included abdomen is within normal limits. There is incidental ventral spondylosis deformans of T12-13.

#### Condusions:

- Cardiopulmonary changes are consistent with left-sided congestive heart failure. Given moderate
  generalized cardiomegaly and moderate left atrial enlargement, consider DCM given breed.
   Echocardiography is recommended and repeat thoracic radiographs to monitor response to therapy.
- Impression of faint rounded soft tissue opacities mixed in with the intersitital pattern may represent
  peribronchial cuffing and end on vessels, pulmonary nodules are thought less likely. Follow-up
  radiographs to reassess the lungs are recommended after resolution of cardiogenic pulmonary edema.
- Concurrent mild diffuse bronchial pattern likely represents a component of lower airway disease.

Radiol	ogists		
	В	6	
Review	/ing:		
Dates			
Report	ed:	В6	
Finaliza	ed:		

## Cummings Veterinary Medical Center

Foster Hospital for Small Animals 95 Willard Street North Grafton, MA 01536 Telephone (508) 839-5395 Fax (508) 839-7951 http://webmed.tufts.edu/

#### Discharge Instructions

<u>Patient</u>	Owner		"!
Name: B6	Name:		
Signalment: B6 Years Old Brindle Male (Neutered) Boxer	Address:	<b>B6</b>	
Patient D: B6			
Consulting Clinician B6			
Consulting Clinician: DV			
ER Supervisor:			
<b>B6</b>			
Admit Date: B6 9:1255 AM			
Check Out Date: B6			
CHELL COR LIGHE DO			
Diagnosis:			
Dilated cardiomyopathy (DCM) with congestive heart failure			
2. Malignant ventricular arrhythmia			
,			
Case Summary:			
B6 has been diagnosed with a primary heart muscle disease ca	alled dilated cardiomyo	ppathy (DCM). This di	sease is more
common in large and giant breed dogs and is characterized by thin			
function, and enlargement of the upper chambers of the heart. Ma	any dogs with DOM wi	ll also have significan	t arrhythmias
B6 which can be life-threatening and also require medic		_	
progressed to the point of congestive heart failure, meaning that f			-
this is a progressive disease and we cannot reverse the changes to			diac
medications and some changes to the diet to make your dog comf	iortableand havehim l	breathing easier.	
Discountie tout could and Enline			
Diagnostic test results and findings:  O Chest radiograph (x-ray) findings: The heart is enlarged a	and thousa is fluid in tha	have	
O Echocardiogram findings: All chambers of the heart are e			
o EGG findings: The EGG showed irregular heart rhythm	magaran nacon	and at a second	
O Labwork findings: The kidney values are mildly elevated; i	Livervalues (ALT) dich	th elevated	
		,	
History:			
B6 presented to Tufts ER on B6 for further evaluation of a or	e week history of whe	ezing. You report tha	at your family
vet noted a heart arrhythmia in July (was evaluated for wheezing) o	and B6 was starte	don B6 The wh	eezing
resolved and the medication was discontinued. B6_didn't finish	his breakfast the mon	ning before presenta	tion to ER, and
this is abnormal for him.			
Physical exam:			
On presentation, B6 was bright and alert and his vital were no	amal except an elevat	ed heart rate (160). I	le was noted
to have a grade 2-3/6 heart murrour and an arrhythmia. He had m	-		

coughing was noted internat	tently. The rest of his phy	sicar exam was unn			
Diagnostic/Treatment plan:					
B6 had x-rays of his ches	t that showed evidence o	if left sided concesti	ve heart failure and a m	noderate cordiomeaalv	
(enlarged heart). He also had					
contractile function of the he	_				
bloodwork which showed mit		-		<b></b>	
(ALT) was improved by still el				B6	
,,,		•	į.		
While in the hospital, B6	was closely monitored w	ith a continuous 86	G, and he was aiven sev	eral medications to treat	
	6 instrught). Be		В6	after stopping	
В6	, o	<u></u>			
t					
Monitoring at home:					
1. Please monitor for any sign	ns of lethargy, weakness	palegums, cough, s	shortness of breath, ina	ppetence, or collapse, if a	
collapsing episode is noted, p					
fast. If you have an iPhone or		•	_		
device (www.alivecor.com or	-		-		
app. If you have an Android o					
heart rate and rhythm at hor				-	
emergency clinic is open 24 h		aro, prace am a r	orejou oogeroome	,	
2. We would like you to mon	itor your doe's breathing	rate and effort at h	ome, ideally during dec	en or at a time of rest. The	
doses of drugs will be adjuste				-	
		77	9 (J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
	ate at rect of less than 2	5 to 40 breaths nor i	adt mitibbent abnin	broothing affirst nated by	
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controlled have a breathing r the amount of belly wall mot rate or effort will usually mes	ion used for each breath in that you should give a	, is fairly minimal if l in extra dose of	heart failure is controlle B6 , if difficul	ed. An increase in breathing Ity breathing is not	
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Diet suggestions:

FDA-CVM-FOIA-2019-1704-007791

Dogs with arrhythmia may benefit from the addition of omega-3 fatty acids (fish oil) to the diet. Diets such as the Royal Canin Boxer or Early Cardiac diet or Hill's j/d have ample fish oil and may not require much (or any) additional supplementation.

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.tufls.edu/heartsmart/diet/). You can also find additional information on supplements such as fish oil or other supplements that you might have questions about may be found on the Tufls HeartSmart web site: (http://vet.tufls.edu/heartsmart/diet/).

- 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.
- 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 langaroo, duck, lamb, venison, lentils, peas, beans, buffalo, tapioca, barley, and childpeas.
- O The FDA issued a statement regarding this issue (https://www.fda.gov/AnimalVeterinary/NewsEvents/CVM/Updates/ucm613385.htm) and a recent article published by Dr. Lisa Freeman on the Cummings School's Petfoodology blog can further explain these findings (http://vetnutrition.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

#### Canned 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+

We recommend slowly introducing one of the diets on the above list as follows: 25% of the new diet mixed with 75% old diet for 2-3 days, then 50:50, etc.

Hopefully you can find a diet on the list that B6 vill enjoy!

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

#### Dercise recommendations:

For the first 7 to 10 days after starting anti-arrhythmic medications and medications for heart failure, and until welcow that the medications are effectively controlling arrhythmia, we <u>recommend very limited activity</u>. Leash walk only is ideal, and short walks to start. Once the arrhythmia and heart failure has been well controlled then slightly longer walks are acceptable. However, repetitive or strenuous high-energy activities (repetitive ball chasing, running fast off-leash, etc.) are not recommended as these activities may result in worsened arrhythmia or even sudden death.

#### Recheck/Follow-up:

A recheck exam is usually recommended in 7 to 14 days to check and see if the anhythmia and heart failure is well controlled. If you wish to have the Cardiology service at Tufts assist with ongoing care of your pet's heart disease, please contact the Cardiology service by sending an email to <u>cardiovet@tufts.edu</u> within 24-48 hours after your pet has been discharged to set up an appointment. After you have made an appointment with the Cardiology service, the Cardiology service will then be able to answer questions regarding the care of your pet. If instead you would like to continue care with

# Cummings Veterinary Medical Center AT TUFTS UNIVERSITY Cardiology Liaison: 508-887-4696

Patient ID: B6

B6 Canine
Brindle BW: Weight(lbs) 0.00

### Cardiology Inpatient ENROLLED IN DCM DIET STUDY

Date:
Weight: Weight(lbs) 25kg
Attending Cardiologist:
John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC
<b>B6</b>
Cardiology Resident:
<b>■ B6</b>
Thoracic radiographs available for review?
Yes - in SS
Yes - in PACS
■ No
Patient location:
ER .
Presenting complaint and important concurrent diseases:  Previously diagnosed arrhythmia at rDVM in July, was started on B6 but discontinued after a few weeks due to resolution of symptoms (wheezing). Owner reports that while she was away last week his wheezing returned. Owner started B6 again last Tuesday. Now lethargic, decreased appetite. No other significant history.
Current medications and doses:  B6 Junknown concentration): 1/2 tab BID
At-home diet: (name, form, amount, frequency) Royal canin boxer dry
<b>Key indication for consultation: (</b> murmur, arrhythmia, needs fluids, etc.) Historical arrhythmia
Questions to be answered:  Does he have current heart disease/heart failure? degree of arrhythmia?

**Is your consult time-sensitive?** (e.g., anesthesia today, owner waiting, trying to get biopsy today)

	Yes (explain):
1	No, owner waiting in lobby

#### \*STOP - remainder of form to be filled out by Cardiology\*

		, 2,
Physic	al Examination	
		<b>B6</b>
		<b>D</b> 0
	e condition:	
	Normal	Moderate cachexia
	Mild muscle loss	Marked cachexia
Cardio	ovascular Physical Exam	
Murm	ur Grade:	
	None	□ IV/VI
	I <b>/</b> VI	□ v/vi
1	II/VI to	□ vi⁄vi
2	III <b>/V</b> I	· • • ·
		-
Murm	ur location/description: left, apical, s	ystolic
Jugula	r vein:	
	Bottom 1/3 of the neck	■ Top 2/3 of the neck
1	Middle 1/3 of the neck	☐ 1/2 way up the neck
Arteri	al pulses:	
	Weak	■ Bounding
2	Fair	✓ Pulse deficits
	Good	Pulsus paradoxus
	Strong	Other (describe):
Arrhyt	hmia:	
	None	☐ Bradycardia
	Sinusarrhythmia	☐ Tachycardia
1	Premature beats	-
Gallop		
Øaliop <b>Ø</b>	yes	Pronounced
	No	Other:
2	Intermittent	- CARET:
	intermittent	
	nary assessments:	_
	Eupneic	Pulmonary Crackles
1	Moderate dyspnea	Wheezes
	Marked dyspnea	Upper airway stridor
	Normal BV sounds	Other auscultatory findings: Cough
Abdon	ninal exam:	
	Normal	Abdominal distension

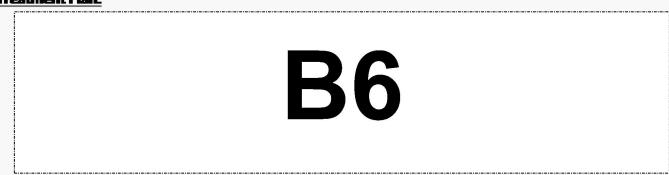
	Hepatomegaly	Mild ascites
Echoc	ardiogram Findings:	
Asses	sment and recommendations:	B6
Findir malig Furos	igs consistent with DCM with active nant arrhythmia that hospitalization emide 2mg/kg q 4-6h is recommend	CHF and frequent ventricular arrhythmia. Patient has enough and Lidocaine CRI and telemetry monitoring is recommended. ed for the day and depending how well he responds, maybe we

can decrease to q6-8h overnight. Patient has historically been on grain free diet for years before been switched to current diet. It is unclear whether this is a primary DCM, ARVC with DCM phenotype, or diet-induced cardiomyopathy, but B6 7.5mg BID and Taurine 500mg are also recommended. Apparently patient tolerated well B6 in the past, but we generally avoid it at this point due to potential beta-blocker effects that may worsen systolic function. Thus, recommend bloodwork and if liver 200mg BID (decreasing to SID after 5 days) should be started. Howeverm values are normal B6 since he tolerated it in the past, otalol could be considered once CHF is resolved if liver values are elvated. Fish oil may also be effective helping decrease ventricular arrhythmia density. Recommend when patient is eating and not azotemic. Recommend repeat addition of ac echocardiogram in 3 months or sooner in case patient develops clinical signs consistent with progression of the disease (shortness breath, collapse, syncope, exercise intolerance, pale mucous membrane). Client can be instructed on how to use AliveCor and assess heart rate and rhythm from home if patient at rest and calm at home.

#### Addendum 02/25/2019:

The patient continues to have persistent ventricular tachycardia despite being on the B6 for almost 3 days. It was elected to add B6 30 mg PO BID. The owner elected to take the patient home today despite poor arrhythmia controlled. Recheck ECG is recommended in 7-10 days.

#### <u>Treatment Plan:</u>



#### Final Diagnosis:

LVPWdN

Severe cardiomegaly with poor contractile function - r/o primary DCM, diet-induced cardiomyopathy, ARVC, tachycardiac induced cardiomyopathy.

Malignant ventricular arrhythmia - non-sustained VTach and frequent polymorphic VPCs; Left sided congestive heart failure.

#### **Heart Failure Classification Score:**

ISACHC Classification:	□ IIIa ☑ IIIb	
ACVIM CHF Classification:  A B1 B2	☑ C □ D	
M-Mode IVSd LVIDd LVPWd IVSs LVIDs LVPWs EDV(Teich) ESV(Teich) EF(Teich) %FS SV(Teidh)	<b>B6</b>	om om om om om mi mi % %
<u>M-Mode Normalized</u> IVSdN LVIDdN	B6	(0.290 - 0.520) (1.350 - 1.730) !

 $\{0.330 - 0.530\}$ 

IVSsN		(0.430 - 0.710) !
LVIDsN	<b>B6</b>	(0.790 - 1.140) !
LVPWsN	20	(0_530 - 0.780) !
2D SA IA Ao Diam SA IA / Ao Diam IVSd IVIDd IVPWd EDV(Teich) IVSs IVIDs IVPWs ESV(Teich) EF(Teich) %FS SV(Teich) IVId IAX IVAd IAX IVAD A-L IAX IVEDV MOD IAX IVAS IAX IVESV A-L IAX IVESV MOD IAX IVESV MOD IAX IVEF MOD IAX SV A-L IAX SV A-L IAX SV A-L IAX SV A-L IAX SV MOD IAX SV A-L IAX SV MOD IAX CO A-L IAX	B6	(U.53U - U.78U)!  om om om om om om om om om om om om om
<u>Doppler</u> MR Vmax	r1	m/s
MR maxPG		m/s
	<b>B6</b>	mmHg m/c
PV Vmax		m/s

PV maxPG

mmHg

## Cummings Veterinary Medical Center

Cardiology Liaison: 508-887-4696

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

<u>Patient</u>	Owner		,======================================
Name B6	Name:	B6	Patient ID: B6
Species: Canine	Address	B6	
BrindleMale (Neutered) Boxer	Ĺ	DU	j
Birthdate: B6			
Attending Cardiologist:  John E. Rush DVM, MS, DACVIN	A (Cardiology), D	ACVECC	
B6			
БО			
Cardiology Resident:			
,	B6		
Cardiology Technician:			
	<u> </u>		
<b>B6</b>			
DU			
Student:			
Admit Date B6 9:12:55 AM			
Discharge Date: B6			
Diagnoses:			
-Suspected Arrhythmogenic right ventri	icular cardiomy	mathy (ARVC) versu	s Dilated cardiomyogathy
- Active Congestive heart failure	,·	<del>, ,</del>	
- Ventricular arrhythmia - Not currently	controlled -		
Clinical findings:			
Thank you for bringing 86 to Tults U	Iniversity.		
<u>-</u>			sed appetite and overall was not feeling like his
normal self. He was previously diagnose	-	thmia (irregular hear	rt rate) back in July by your primary care
veterinarian but had never been seen by	y a carchologist.		
Upon presentation to the ER, B6 wa	e netional to be	n inversed model	rest affect and extra in addition to a
		-	ad very frequent irregular premature beats.
Chest radiographs were then performed			
consistent with active congestive heart t	_		
<b>2</b>			
L			ram (ultrasound of the heart) was performed.
	•		ythmogenic right ventricular cardiomyopathy
			s referred to as "Bover Cardiomyopathy". The
		· · · · · · · · · · · · · · · · · · ·	tand/or scartissue which may result in serious
ventricular arrhythmias (abnormal heart	t rhythms origin	ating from the lowe	r chamber of the heart), cardiac enlargement



Diet suggestions: Dogs with ARVC may benefit from the addition of omega-3 fatty acids (fish oil) to the diet. Diets such as the Royal Canin Boxer or Early Cardiac diet, or Hill's j/d have ample fish oil and may not require much (or any) additional supplementation. Additional information on supplements such as fish oil or other supplements that you might have questions about may be found on the Tufts HeartSmart web site: (http://vet.tufts.edu/heartsmart/diet/).

- 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.
- O Werecommend 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 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://wetnutrition.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)

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+

We recommend slowly introducing one of the diets on the above list as follows: 25% of the new diet mixed with 75% old diet for 2-3 days, then 50-50, etc.

Hopefully you can find a diet on the list that B6 will enjoy!

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 anti-arrhythmic medications, and until we know that the medications are effectively controlling arrhythmia, we recommend very limited activity. Leash walk only is ideal, and

repetitive or strenuous high energy activities (repetitive ball chasing, running fast off-leash, etc.) are not recommended as these activities may result in worsened arrhythmia or even sudden death. Recheck visits: A recheck ECG is recommended 1-2 weeks after any antianthythmic medication adjustments are made. Sincere B6 was enrolled in the DCM study, we will need to see him back in 3, 6, and 9 months. Thank you for entrusting us with B6 care. Please contact our Cardiology liaison at (508)-887-4696 or email us at cardioxet@tults.edu for scheduling and non-emergent questions or concerns. Sincerely, **B6** Please visit our HeartSmart website for more information http://vet.tufts.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 dactors 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 Discharge Instructions Owner

short walks to start. Once the arrhythmia has been well-controlled then slightly longer walks are acceptable. However,



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) 839-7951 http://wetmed.turks.edu/ Referring Vet Direct Line 508-887-4988

#### **Notice of Patient Admit**

ar contract	B6	9:12:55.AM	Case No: B6
Refer	ing Doct	or. B6	
	lame:	B6	
Patien	t Hame:		
-			
	olleague, atient pre	ented to our Emergency service. Pla	sase make note of the following information to facilitate
COMMIN			
CONTRACT	micauon y	vith our team.	
		with our team. doctor is: B6	
The at	tending		poor systolic function, L-CHF
The all The re	tending ason for have any	doctor is:  B6  admission to the FHSA is: ARVC	poor systolic function, L-CHF ase, please call 508-887-4988 to reach the ECC Service.



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 9:12:55 AM	Case No: B6
Referring Doctor: B6	
Client Hame: B6	
B6	
Your patient presented to our Emer communication with our team.	gency service. Please make note of the following information to facilitate
The attending doctor is:	B6
The reason for admission to the	
If you have any questions regardin	q this particular case, please call 508-887-4988 to reach the Cardiology Service.

Thank you for your referral to our Emergency Service.

Information is updated daily, by noon.



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

B6
Male (Neutered)
Canine Boxer Brindle
B6



Thank you!

#### Daily Update From the Cardiology Service

Today's date:	2/25/2019	
Dear	В6	
Thank you for University.	referring pa	atients to the Foster Hospital for Small Animals at the Cummings School of Tufts
Your patient[	В6	was admitted and is being cared for by the Cardiology Service.
Today, B6	]	
☐ is still i		<del></del>
Today's treatm		
	work planner	
	ardiography •	
		aly with poor contractile function - r/o primary DCM, diet-induced cardiomyopath <sup>。</sup> c induced cardiomyopathy. Left sided congestive heart failure.
		rocedure planned
	-	t for CHF secondary to DCM
		t for thrombosis
_	ng treatmen nt polymorp	rt for arrhythmia - Malignant ventricular arrhythmia - non-sustained VTach and hic VPCs
Additional pla	ns:	
		days for reports to be finalized upon natient discharge

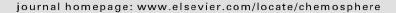
Please call (508) 887-4696 before 5pm or email us at cardiovet@tufts.edu if you have any questions.

Attending Clinician: B6 DVM (Resident, Cardiology)
Faculty Clinician: B6 DVM,DACVIM
Senior student:



#### Contents lists available at SciVerse ScienceDirect

#### Chemosphere





## Influence of mercury and selenium chemistries on the progression of cardiomyopathy in pygmy sperm whales, *Kogia breviceps*

Colleen E. Bryan <sup>a,b,\*</sup>, W. Clay Davis <sup>a</sup>, Wayne E. McFee <sup>c</sup>, Carola A. Neumann <sup>d</sup>, Jennifer Schulte <sup>d</sup>, Gregory D. Bossart <sup>e</sup>, Steven J. Christopher <sup>a</sup>

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- <sup>c</sup> Center for Coastal Environmental Health and Biomolecular Research, National Ocean Service, National Oceanic and Atmospheric Administration, 219 Fort Johnson Road, Charleston, SC 29412. USA
- <sup>d</sup> Department of Cell and Molecular Pharmacology and Experimental Therapeutics, Medical University of South Carolina, 173 Ashley Avenue, MSC-505, Charleston, SC 29425, USA <sup>e</sup> Georgia Aquarium, 225 Baker Street, Atlanta, GA 30313, USA

#### HIGHLIGHTS

- ▶ More than half of stranded pygmy sperm whales exhibit signs of cardiomyopathy.
- ▶ Hg and Se balance and oxidative stress may influence progression of cardiomyopathy.
- ▶ Adults have significantly greater Hg:Se liver molar ratios than younger age classes.
- ▶ Hg:Se molar ratios were greater in males and increased with heart disease progression.
- ▶ Protein oxidation was greater in males and increased with heart disease progression.

#### ARTICLE INFO

Article history: Received 16 September 2011 Received in revised form 20 January 2012 Accepted 16 May 2012 Available online 15 June 2012

Keywords:
Mercury
Selenium
Protein oxidation
Cardiomyopathy
Pygmy sperm whale

#### ABSTRACT

More than half of pygmy sperm whales (Kogia breviceps) that strand exhibit signs of cardiomyopathy (CMP). Many factors may contribute to the development of idiopathic CMP in K. breviceps, including genetics, infectious agents, contaminants, biotoxins, and dietary intake (e.g. selenium, mercury, and pro-oxidants). This study assessed trace elements in K. breviceps at various stages of CMP progression using fresh frozen liver and heart samples collected from individuals that stranded along US Atlantic and Gulf coasts between 1993 and 2007. Standard addition calibration and collision cell inductively coupled plasma mass spectrometry (ICP-MS) were employed for total Se analysis and pyrolysis atomic absorption (AA) was utilized for total Hg analysis to examine if the Se/Hg detoxification pathway inhibits the bioavailability of Se. Double spike speciated isotope dilution gas chromatography ICP-MS was utilized to measure methyl Hg and inorganic Hg. Immunoblot detection and colorimetric assays were used to assess protein oxidation status. Data collected on trace elements, selenoproteins, and oxidative status were evaluated in the context of animal life history and other complementary histological information to gain insight into the biochemical pathways contributing to the development of CMP in K. breviceps. Cardiomyopathy was only observed in adult pygmy sperm whales, predominantly in male animals. Both Hg:Se molar ratios and overall protein oxidation were greater in males than females and increased with progression of CMP.

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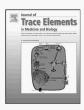
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#### Pathobiochemistry

## Selenium protein identification and profiling by mass spectrometry: A tool to assess progression of cardiomyopathy in a whale model



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#### ABSTRACT

Non-ischemic cardiomyopathy is a leading cause of congestive heart failure and sudden cardiac death in humans and in some cases the etiology of cardiomyopathy can include the downstream effects of an essential element deficiency. Of all mammal species, pygmy sperm whales (Kogia breviceps) present the greatest known prevalence of cardiomyopathy with more than half of examined individuals indicating the presence of cardiomyopathy from gross and histo-pathology. Several factors such as genetics, infectious agents, contaminants, biotoxins, and inappropriate dietary intake (vitamins, selenium, mercury, and pro-oxidants), may contribute to the development of idiopathic cardiomyopathy in K. breviceps. Due to the important role Se can play in antioxidant biochemistry and protein formation, Se protein presence and relative abundance were explored in cardiomyopathy related cases. Selenium proteins were separated and detected by multi-dimension liquid chromatography inductively coupled plasma mass spectrometry (LC-ICP-MS), Se protein identification was performed by liquid chromatography electrospray tandem mass spectrometry (LC-ESI-MS/MS), and Se protein profiles were examined in liver (n = 30) and heart tissue (n = 5) by SEC/UV/ICP-MS detection. Data collected on selenium proteins was evaluated in the context of individual animal trace element concentration, life history, and histological information. Selenium containing protein peak profiles varied in presence and intensity between animals with no pathological findings of cardiomyopathy and animals exhibiting evidence of cardiomyopathy. In particular, one class of proteins, metallothioneins, was found to be associated with Se and was in greater abundance in animals with cardiomyopathy than those with no pathological findings. Profiling Se species with SEC/ICP-MS proved to be a useful tool to identify Se protein pattern differences between heart disease stages in K. breviceps and an approach similar to this may be applied to other species to study Se protein associations with cardiomyopathy.

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То:	Cleary, Michael *; HQ Pet Food Report Notification; B6		
Sent:	12/27/2018 3:16:35 PM		
Subject:	Acana Free Run Poultry dry: Lisa Freeman - EON-374786		
Attachments:	2060599-report.pdf; 2060599-attachments.zip		

A PFR Report has been received and PFR Event [EON-374786] has been created in the EON System.

A "PDF" report by name "2060599-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 "2060599-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-374786

ICSR #: 2060599

**EON Title:** PFR Event created for Acana Free Run Poultry dry; 2060599

AE Date	08/20/2018	Number Fed/Exposed	2
Best By Date		Number Reacted	2
Animal Species	Dog	Outcome to Date	Stable
Breed	Doberman Pinscher		
Age	10 Years		
District Involved	PFR-New England DO		

#### **Product information**

**Individual Case Safety Report Number: 2060599** 

**Product Group:** Pet Food

**Product Name:** Acana Free Run Poultry dry

**Description:** Housemate was diagnosed with DCM B6 previously reported). B6 was asymptomatic but eating same diet (Acana) so was screened 8/20/18 - reduced contractile function. Owner changed diet to Pro Plan Weight Management dry. No improvement on 12/12/18 echo. Will recheck in 3 months

WB taurine **B6** 

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: 2 Number of Animals Reacted With Product: 2

Product Name	Lot Number or ID	Best By Date
Acana Free Run Poultry dry		

#### **Sender information**

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

#### Owner information

**B6** 

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

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Report Details - EON-	374786				
ICSR:	2060599				
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 pro	oduct)	
Reporting Type:	Voluntary				
Report Submission Date:	2018-12-27 10:09:22 EST				
Reported Problem:	Problem Description:	B6 was asympto - reduced contractile	gnosed with DCM ( matic but eating same function. Owner char o improvement on 12/	e diet (Acana) so was iged diet to Pro Plan	Weight
	Date Problem Started:	08/20/2018	***************************************	***************************************	
	Concurrent Medical Problem:	Yes			
	Pre Existing Conditions:		B6	<u> </u>	
	Outcome to Date:	Stable			
Product Information:	Product Name:	Acana Free Run Poi	ultry dry		
	Product Type:	[	•		
	Lot Number:				
	Package Type:	BAG			
	Product Use Information:	Description:	Fed since approxima Changed to Pro Plan		
	Manufacturer /Distributor Information:				
	Purchase Location Information:				
Animal Information:	Name:	B6			
	Type Of Species:	Dog			
	Type Of Breed:	Doberman Pinscher			
	Gender:	Female	ran a arra és a arra a a aréta a arra a arrana a arran a la arra a a arrande a arrande a arrande a arrande a a		
	Reproductive Status:	Neutered			
	Weight:	38.1 Kilogram			
	Age:	10 Years			
	Assessment of Prior Health:	Excellent			
	Number of Animals Given the Product:	2			
	Number of Animals Reacted:	2			
	Owner Information:	Owner Information provided:	Yes		
	1	Contact:	Name:	DC	
	3	4.5	1 51	<b>B6</b>	
			Phone:		
			Email:	DO	
		Address:	Email:		
		Address:	B6		
		Address:	Email:		
	Healthcare Professional Information:	Address: Practice Name: Contact:	Email:  B6  United States  Tufts Cummings Sch		dicine

Address: 200 Westboro Rd North Graton Massachusetts 01536 United States  Interest of States				Phone:	(508) 887-4523
North Grafton   Massachusetts   O1536   United States				Email:	lisa.freeman@tufts.edu
Address:    200 Westboro Rd   North Grafton   Massachusetts   01536   United States			Address:	North Grafton Massachusetts 01536	
North Grafton   Massachusetts   01536   United States	ender Information:	Name:	Lisa Freeman		
Permission To Contact Sender: Preferred Method Of Contact:  Additional Documents:  Attachment:  B6 nedical records.pdf  Description: Medical records		Address:	North Grafton Massachusetts 01536		
Permission To Contact Sender: Preferred Method Of Contact:  Additional Documents:  Attachment: B6 nedical records.pdf Description: Medical records		Contact:	Phone:	5088874523	
Sender: Preferred Method Of Contact:  dditional Documents:  Attachment: B6 nedical records.pdf Description: Medical records			Email:	lisa.freeman@t	ufts.edu
Contact:			Yes		
Attachment: B6 nedical records.pdf  Description: Medical records			Email		
Description: Medical records	Additional Documents:				
		Attachment:	<b>B6</b> nedic	al records.pdf	
Type: Medical Records					
		Type	Madical Decardo		
		Турс.	Medical Records		
		Турс.	Medical Records		
		Турс.	Medical Records		
		Турс.	Medical Records		
		Турс.	Medical Records		
		Турс.	Medical Records		
		Турс.	Medical Records		

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

**Sent:** 9/22/2018 10:40:31 PM

Subject: Taste of the Wild-Last 1-2 bags (for 2 dogs) before diagnosis were Southwest

Canyon flavor-Before that: Lisa Freeman - EON-366516

Attachments: 2055229-report.pdf; 2055229-attachments.zip

A PFR Report has been received and PFR Event [EON-366516] has been created in the EON System.

A "PDF" report by name "2055229-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 "2055229-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-366516

ICSR #: 2055229

**EON Title:** PFR Event created for Taste of the Wild Last 1-2 bags (for 2 dogs) before diagnosis were Southwest Canyon flavor Before that fed 3-4 bags of Pine Forest Before that had been feeding Pacific Stream for several years; 2055229

AE Date	09/08/2018	Number Fed/Exposed	2
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	Doberman Pinscher		
Age	<b>B6</b> Years		
District Involved	PFR-New England DO		

#### **Product information**

**Individual Case Safety Report Number: 2055229** 

**Product Group:** Pet Food

**Product Name:** Taste of the Wild Last 1-2 bags (for 2 dogs) before diagnosis were Southwest Canyon flavor Before that, fed 3-4 bags of Pine Forest Before that, had been feeding Pacific Stream for several years

**Description:** DCM and CHF Probably primary DCM in predisposed breed but given diet history, some

possibility of diet-associated DCM Taurine WNL

**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: 2 Number of Animals Reacted With Product: 1

Product Name	Lot Number or ID	Best By Date
Taste of the Wild Last 1-2 bags (for 2 dogs) before diagnosis were Southwest Canyon flavor Before that, fed 3-4 bags of Pine Forest Before that, had been feeding Pacific Stream for several years		

#### **Sender information**

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

#### Owner information

**B6** 

To view this PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-366516

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

 $\underline{https://eon.fda.gov/eon./EventCustomDetailsAction!viewReport.jspa?decorator=none\&e=0\&issueType=12\&issueId=383430$ 

\_\_\_\_\_\_

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Report Details - EON-	366516		
ICSR:	2055229		
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:	2018-09-22 18:33:37 EDT		
Reported Problem:	Problem Description:		ably primary DCM in predisposed breed but given diet history iet-associated DCM Taurine WNL
	Date Problem Started:	09/08/2018	
	Concurrent Medical Problem:	No	
	Outcome to Date:	Stable	
Product Information:	Product Name:		st 1-2 bags (for 2 dogs) before diagnosis were Southwest e that, fed 3-4 bags of Pine Forest Before that, had been am for several years
	Product Type:	;	
	Lot Number:		
	Package Type:	BAG	
	Product Use Information:	Description:	Owner has given consent to have FDA contact her for any additional questions
	Manufacturer /Distributor Information:		
	Purchase Location Information:		
Animal Information:	Name:	В6	
	Type Of Species:		
		Doberman Pinscher	
	Gender:	2	
	Reproductive Status:		
		34.2 Kilogram	
		<b>B6</b> Years	
	Assessment of Prior Health:	<del>}</del>	
	Number of Animals Given the Product:	2	
	Number of Animals Reacted:	1	
	Owner Information:	Owner Information provided:	Yes
		Contact:	Name:
			Phone: Email:
		Address:	B6
			United States
	Healthcare Professional	Practice Name:	Tufts Cummings School of Veterinary Medicine
	Information:	Contact:	

			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		
dditional Documents:				
	Attachment:	discharge 9-20-18.pdf		
		Discharge 9-20-18		
	Туре:	Medical Records		
	Attachment:	bnp.pdf		
	Description:			
	Туре:	: Laboratory Report		
	Attachment:	cardio appointment	9-20-18.pdf	
		Cardio appt 9-20-18		
	Туре:	Echocardiogram		
	Attachment:	cardio consult 9-8-18.pdf		
		cardio consult 9-8-1	3	
	Туре:	Echocardiogram		
	Attachment:	discharge 9-9-18.pd	f	
		Discharge 9-9-18		
	Туре:	Medical Records		

Client: B6 Patient B6 IDEXX Reference Laboratories IDE XX VetConnect 1-888-433-9987 Client: Date: 09/10/2018 TUFTS UNIVERSITY **B6** Requisition #: 426657 Patient 200 WES TBORO RD Species: CANINE NORTH GRAFTON, Massachusetts 01536-1828 Accession# **B6** Breed: DOBERMAN\_PINSCH Ordered by 508-839-5395 Gender: MALE NEUTERED Account #80735 Age: 8Y CARDIOPET proBNP - CANINE CARDIOPET proBNF **B6 B6** 0 - 900 pmol/L HIGH - CANINE Comments: 1. 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.

Page 1 of 1

# Cummings Veterinary Medical Center

AT TUFTS UNIVERSITY Cardiology Liaison: 508-887-4696

В6

Weight: Weight (kg) 32.00

Date

**B6** 

Patient ID: \$200408

B6 Canine

B6 Years Old Male (Neutered)

Doberman Pinscher

Black/Tan BW: Weight (kg) 32.00

### **Cardiology Consultation**

Requesting Clinician: B6 D	VM (Resident - Emergency & Critical Care)
Attending Cardiologist:	
John E. Rush DVM, MS, DAC	VIM (Cardiology), DACVECC
В	36
Cardiology Resident:	
B6	
Thoracic radiographs available for	review?
Yes - in SS	
Yes - in PACS	
■ No	
Patient location: ER	
soft cough after exercise and at res getting more frequent over the pas	nt concurrent diseases: 8 y.o doberman presenting for acute onset st, worse at night. Owners report coughing episodes have been st 3 days. Grade IV/VI right sided systolic murmur ausculted on exam. seen with cardiology 9/20/18 based on arrhythmia heard at rDVM.
*STOP - rema	ainder of form to be filled out by Cardiology*
Physical Examination	
	<b>B6</b>
Muscle condition:	
Normal	Moderate cachexia
Mild muscle loss	Marked cachexia
Cardiovascular Physical Exam	
Murmur Grade:	
■ None	■ IV/VI
<b>□</b> I <b>∕</b> VI	■ v/vi

□ II/VI ☑ III/VI	□ vi/vi
Murmur location/description: systoli	ic right apical
Jugular vein:  Bottom 1/3 of the neck  Middle 1/3 of the neck	☐ Top 2/3 of the neck ☐ 1/2 way up the neck
Arterial pulses:  Weak  Good Strong	<ul> <li>Bounding</li> <li>Pulse deficits</li> <li>Pulsus paradoxus</li> <li>Other (describe):</li> </ul>
Arrhythmia: None Sinus arrhythmia Premature beats	☐ Bradycardia ☐ Tachycardia
Gallop: ☐ Yes ☑ No ☐ Intermittent	Pronounced Other:
Pulmonary assessments:  Euponeic  Mild dyspnea  Marked dyspnea  Normal BV sounds	☐ Pulmonary Crackles ☐ Wheezes ☐ Upper airway stridor ☐ Other auscultatory findings:
Abdominal exam:  Normal Hepatomegaly	Abdominal distension Mild ascites
	<b>B6</b>
Mittal inflow:  Summated  Normal  Delayed relaxation	Pseudonormal Restrictive

ECG findings:		
	B6	
Radiographic findings: Lung parenchyn pronounced LV and LA enlargement. Pr	<del>_</del>	<del>-</del>
Assessment and recommendations: Fir	_	_
Simpson and sphericity index revealed		
advanced DCML Recommend B6		
decrease LA pressure. TR revealed mild pulmonary circulation.	I PHI, for which we expect th	at treating CHF will help to improve
pulmonary circulation. interstitial pattern consistent with incip		Radiographs revealed
the first 24 hours of hospitalization (if I	·	
CBC/chem, NTproBNP and Taurine leve		
as patient had many isolated ventricula		
R/T, recomment B6		diet (ideally a main stream brand)
should be started and explain to owner		
levels should be evaluated in daily basi	<del>-</del>	
arrythmias are still frequent.		
-		
Treatment plan:		
	36	
Final Diagnosis:		J
L-CHF secondary to DCM		
t-citr secondary to bow		
Addendum:		
B6 Patient did well overnight, ran	e episodes of cough and resp	iratory rate staved stable
	<b>B6</b>	
	DU	
Heart Failure Classification Score:		
ISACHC Classification:	П	
⊒ la □ .	Illa	
ib ☑ II	■ IIIb	
SEL		
ACVIM CHF Classification:		
ACVIM CHE Classification:	<b></b> C	
□ A □ B1	<u> </u>	
□ B2	- 0	
.— UL		

# Cummings Veterinary Medical Center

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) 839-7951 http://webmed.tufts.edu/

<u>Patient</u> Name: Signalment:	B6 Years Old Black/Tan Male (Neutered) Doberman Pinscher	Owner Name: Address:	<b>B6</b>
Patient ID:	S200403		
Emergency Clinician: Consulting Clinician:	B6 <b>DVM (Intern)</b>		
, ID Saverniere			
	В	6	

#### Discharge Instructions

Admit Date:	B6	0.5	258	AM
Check Out Dat	er E	36		

Case Summary

Diagnosis:

1. Dilated cardiomyopathy with active congestive heart failure.

Case Summary:

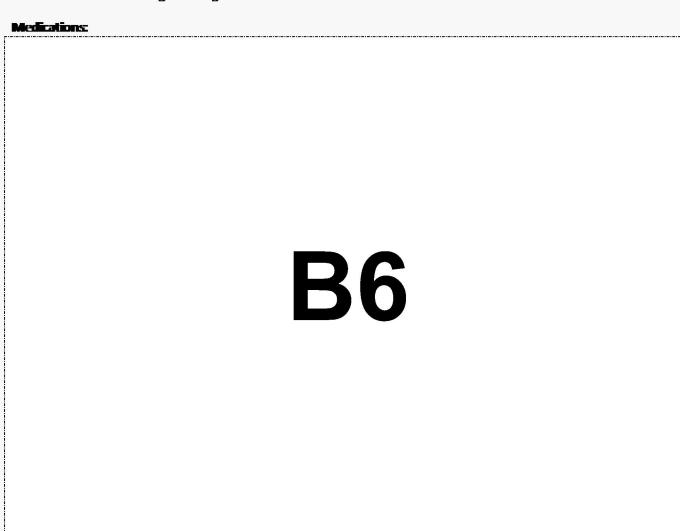
Thank you for bringing B6 to Tufts ER for evaluation of his persistent cough. You reported that he suddenly developed a cough three days ago and that it is worse after exercise or when he is resting at night. On presentation he was bright and alert. His vital signs (heart rate, respiratory rate, and temperature) were all within normal limits. He had an audible bilateral heart murmur. He coughed when his trachea was palpated lightly.

Based on his breed and clinical presentation, we opted to do radiographs and have an emergency consult with the cardiology department because of concerns of dilated cardiomyopathy (DCM). This is a common condition for this breed. Also, grain-free diets may predispose animals to developing dilated cardiomyopathy or make a pre-existing disease to get worse.

On his cardiology consult, ultrasound showed significantly decreased contraction of the heart, confirming dilated cardiomyopathy. EKG showed occasional abnormal heartbeats originating from the ventricle. Based on the results of his radiographs and cardiology consult B6 was started on diuretics to relieve some of the fluid building up in his lungs. He was also started on B6 , which increases the strength of heart contractions. As grain free diet can affect absorption of some nutrients, Taurine supplementation was started. He was placed on an EKG overnight to determine if any arrhythmias are present.

	actions:

- **1. Exercise restrictions:** Do not allow B6 to overexert himself. He may still go for short walks and play with his sister but avoid strenuous activity like hiking or chasing squirrels which may overexert his heart.
- 2. Diet: We recommend to discontinue the gran free diet a sheet that has suggestions for diet and low sodium treats can be found on the HeartSmart web site (http://vet.tults.edu/heartsmart/diet/). We recommend as dry options:
- -Royal Canin Early Cardiac;
- -Royal Canin Boxer;
- Purina ProPlan Adult Weight Management.



Recheck Visits: Please come in for your scheduled cardiology appointment on September 20th at 1PM as a re-check appointment.

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

Please visit our HeartSmart website for more information. http://vet.tuits.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.

_		 
П	coľ	

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 take: <a href="https://www.nc/clinical-studies">wetstufts edu/cvmc/clinical-studies</a>

Case B6	Owner: B6	Discharge Instructions	

# 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

<u>Patient</u>	Owner		
Name: B6	Name	В6	<b>Patient ID: S200403</b>
Species: Canine	Address:	DC	7
Black/Tan Male (Neutered) Doberman		B6	
Pinscher	i_		.i
Birthdate: B6			
Attending Cardiologist:	Cardiology), D	ACVECC	
B6			
Cardiology Resident:		i	·
	B6		
Cardiology Technician:			
B6			
<b>D</b> 0			
Student B6 V19		j	
Admit Date: 9/20/2018 1:05:31 PM			
Discharge Date: 9/20/2018			
Diagnoses:			
1. Dilated cardiomyopathy (DCM)—stable			
2. Congestive heart failure—resolved			
_			
Case summary:	_		
			e is such a sweet boy! We are so happy to hea
he has been doing so well on his medication			
We are so glac B6 responding so wel	і ш пь періка	innie gun e issauß an	CUITINUI (2KM2
Today we performed a recheck quick ultra	sound of his h	eart, an ECG to reche	dk his ventricular arrythmias, and took some
blood to recheck his kidney values since be			His heart seems to be contracting a little
stronger than it was previously. His left ver			trium was smaller today since his last visit,
which means he is improving on his curren			
today. The blood work results are normal:			n his current medication doses (see list
below), and also continue exercise restrict	ing him to only	y leash walks.	
Monitoring at home:			
	6 s breathing	grate and effort at ho	me, ideally during sleep or at a time of rest.

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

The closes of drugs will be adjusted based on the breathing rate and effort.

fairly minimal if heart failure is controlled. **B6**  An increase in breathing rate or effort will usually mean that you should give an extra dose of difficulty breathing is not improved by within 60 -90 minutes after giving extra B6 then we recommend that a recheck exam be scheduled and/or that your dog be evaluated by an emergency dinic. 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. 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: В6 Diet suggestions: We suggest 86 to be in one of the diets we recommended (see list). 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.turits.edu/heartsmart/diet/) Exercise Recommendations: 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 B6 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: A recheck echocardiogram for  $\mathsf{B6}$  is recommended in 3-4 months. B6 has an appointment with us on October 2nd at 4 pm.) Thank you for entrusting us with  $\mathsf{B6}$  care. Please contact our Cardiology liaison at (508)-887-4696 or email us at cardiovet@tults.edu for scheduling and non-emergent questions or concerns. Please visit our HeartSmart website for more information http://vet.tufts.edu/heartsmart/ Prescription Refill Discloimer: year in order to obtain prescription medications.

For the safety and well-being of our patients, your pet must have had an examination by one of our veterinarians within the past

#### Orderioo 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/dinical-studies

Case B6	Owner.	<b>B6</b>	Discharge Instructions	

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

**To:** Jones, Jennifer L **Sent:** 9/22/2018 10:36:35 PM

**Subject:** FW: Safety Report ID 243513 Submission Confirmation

**Attachments: B6** 18092218480.pdf

Sorry - 1 more document (diet history)

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

----Original Message-----

From: noreply.safetyreporting@hhs.gov <noreply.safetyreporting@hhs.gov>

Sent: Saturday, September 22, 2018 6:34 PM To: Freeman, Lisa < lisa.freeman@tufts.edu>

Subject: Safety Report ID 243513 Submission Confirmation

Your initial Pet Food Safety Report, Submitted by: Lisa Freeman, ID 243513, was successfully submitted on 9/22/2018 6:33:37 PM EST to the FDA, and it was issued an Individual Case Safety Report Number (ICSR) of 2055229.

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.

# CARDIOLOGY DIET HISTORY FORM

Please answer the following questions about your pet Pet's name: **B6 B6** \_ Owner's name Today's date 9/20/18 How would you assess your pet's appetite? (mark the point on the line below that best represents your pet's appetite Poor Excelient Poor Excellent Have you noticed a change in your pet's appetite over the last 1-2 weeks? (check all that apply) ☐ Eats about the same amount as usual ☐ Eats less than usual ☐ Eats more than usual □Seems to prefer different foods than usual □Otner\_ 3. Over the last few weeks, has your pet (check one) □Lost weight □Gained weight □Stayed about the same weight □Don't know 4. Please list below ALL pet foods, people food, treats, snack, dental cnews, rawhides, and any other food item that your pet currently eats. Please include the brand, specific product, and flavor so we know exactly what you pet is eating. Food (include specific product and flavor) Form Amount How often? Examples are shown in the table - please provide enough detail that we could go do the store and buy the exact same food. Food (include specific product and flavor) Form Amount How often? Fed since Nutro Grain Free Chicken, Lentil. & Sweet Potato Adult an' 1 1/2 CUD 2x/day Jan 2018 85% lean hamburger Pupperoni original beef flavor PART - 1465 RALS-PINE Treat 1 AST 2 BAGS REP 3 oz 1x/week Jan 2015 1/2 1x/dav Aug 2015 Rawhide treat SOVIMUES 6 inch twist 1x/week Dec 2015 Triste of the wild Rison dry 3 CUPS TX gan 2013 Framm Classic, moture 4 cups dru 2018. 1 X day baby carrots treat green pepper + other vergres + fruit dau 2010 treat 1-2 week 2010 kg Granola Factory, various treat 8-10 Neek \*Any additional diet information can be listed on the back of this sheet Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any other supplements)? Tyes Vivo if yes, please list which ones and give prands and amounts: Brand/Concentration Amount per day Taurine AYes and started 09/09/19 250ma 4+Gn X Carnitine TYes Two\_ Antioxidants TYes Thic Multivitamin □Yes □No\_ Fish oil TYes Thic Coenzyme Q10 TYes PNo\_ Otner (please list) Example: Vitamin C Nature's Bounty 500 mg tablets - 1 per day BEFORE DIAGNSIS (ALL TASTE OF THE WILD) How do you administer pills to your pet? LAST 1-2 BAGS WERE TOTW SOUTHWEST ☐ I do not give any medications put them directly in my pet's mouth without food BEFORETHAT, PED 3-4 BAGS OF PINETURET put them in my pet's dog/cat food ☐ I put them in a Pili Pocket or similar product BOPOLE MAT, PREIPIC SMEAN ☐ | put them in foods (list foods):\_

BEFORE PINE-PREIFIC STREAM

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

**To:** Jones, Jennifer L **Sent:** 10/11/2018 8:29:31 PM

Subject: FW: WB Taurine result for **B6** 

Attachments: T\_22857.pdf

Lisa M. Freeman, DVM, PhD, DACVN
Board Certified Veterinary Nutritionist<sup>TM</sup>
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: Thursday, October 11, 2018 4:26 PM To: Freeman, Lisa lisa.freeman@tufts.edu>

Subject: FW: Taurine result

Veterinary Cardiology Service Tufts University Cummings School of Veterinary Medicine

**Please note:** This account is not monitored on weekends, holidays, or evenings (after 5pm). Please allow 24 - 48 business hours for a reply. For immediate service during business hours, please call the liaison office at 508-887-4696. If you need to speak with the Emergency Service, please call 508-839-5395.

Foster Hospital for Small Animals 200 Westboro Road North Grafton, MA 01536 <a href="http://www.tufts.edu/vet/">http://www.tufts.edu/vet/</a> 508.887.4696 phone 508.887.4363 fax

From: Amino Acid Lab <ucd.aminoacid.lab@ucdavis.edu>

Sent: Thursday, October 11, 2018 4:23 PM

To: Clinical Pathology Lab <<u>clinpath@tufts.edu</u>>; Tufts Veterinary Cardiology Service <<u>cardiovet@tufts.edu</u>>

Subject: Taurine result

Hello -

Thank you for using the Amino Acid Laboratory at UC Davis, School of Veterinary Medicine.

Please find attached the results for your patient. You will note that we are now using a new submission form. The new form requests some additional information that may be useful in interpreting your results. Please note, with the recent increase in the number of dogs screened for taurine deficiency, we are seeing some dogs with values within the lower reference ranges (or above the "no known risk for deficiency range") yet are still exhibiting changes in cardiac function.

In addition to our new submission form, we have also attached 2 handouts developed by our cardiology service at UC Davis for your information. The first is a general handout on dilated cardiomyopathy in dogs. The second is a handout specifically focused on Golden Retrievers, a breed that has been over-represented in the association between grain-free diet consumption and dilated cardiomyopathy.

We hope your clinic finds this information helpful. Veterinarians are always welcome to contact our laboratory for assistance in evaluating your patient's results.

Thank you -

The Amino Acid Laboratory
Department of Molecular Biosciences
School of Veterinary Medicine
University of California, Davis

Phone: 530-752-5058

Email: ucd.aminoacid.lab@ucdavis.edu

From: Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo>

To: 'Freeman, Lisa'

**Sent:** 9/24/2018 12:07:50 PM

Subject: RE: Safety Report ID 243513 Submission Confirmation

Thanks, Lisa.

Jennifer Jones, DVM Veterinary Medical Officer

Tel: 240-402-5421

----Original Message-----

From: Freeman, Lisa <Lisa.Freeman@tufts.edu> Sent: Saturday, September 22, 2018 6:37 PM To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Subject: FW: Safety Report ID 243513 Submission Confirmation

Sorry - 1 more document (diet history)

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

----Original Message-----

From: noreply.safetyreporting@hhs.gov <noreply.safetyreporting@hhs.gov>

Sent: Saturday, September 22, 2018 6:34 PM To: Freeman, Lisa lisa.freeman@tufts.edu>

Subject: Safety Report ID 243513 Submission Confirmation

Your initial Pet Food Safety Report, Submitted by: Lisa Freeman, ID 243513, was successfully submitted on 9/22/2018 6:33:37 PM EST to the FDA, and it was issued an Individual Case Safety Report Number (ICSR) of 2055229.

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.

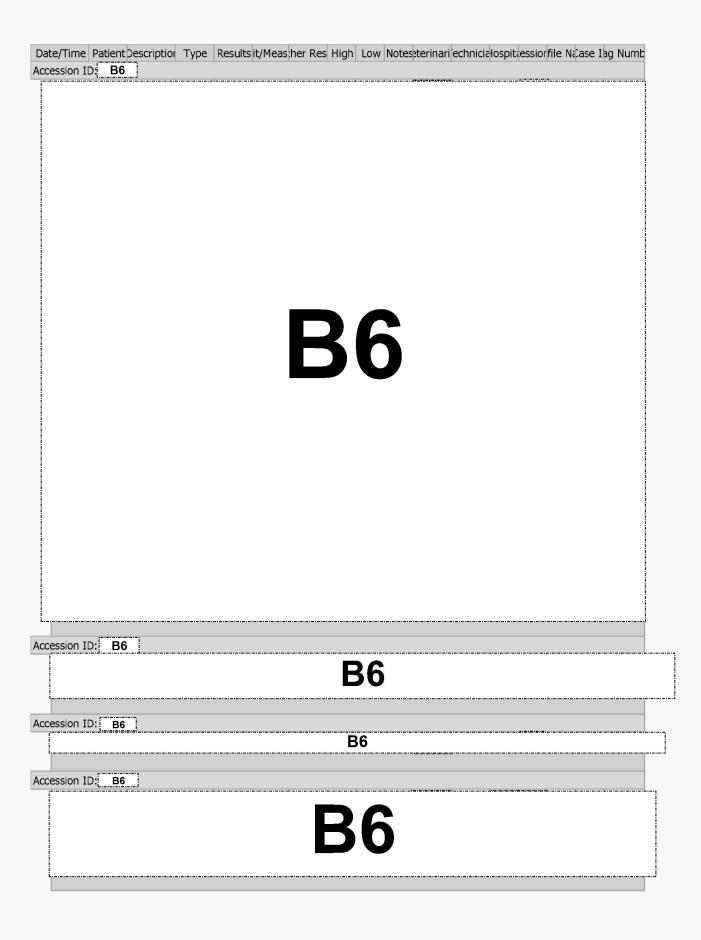
From: Freeman, Lisa <Lisa.Freeman@tufts.edu>

**To:** Jones, Jennifer L **Sent:** 9/22/2018 10:34:45 PM

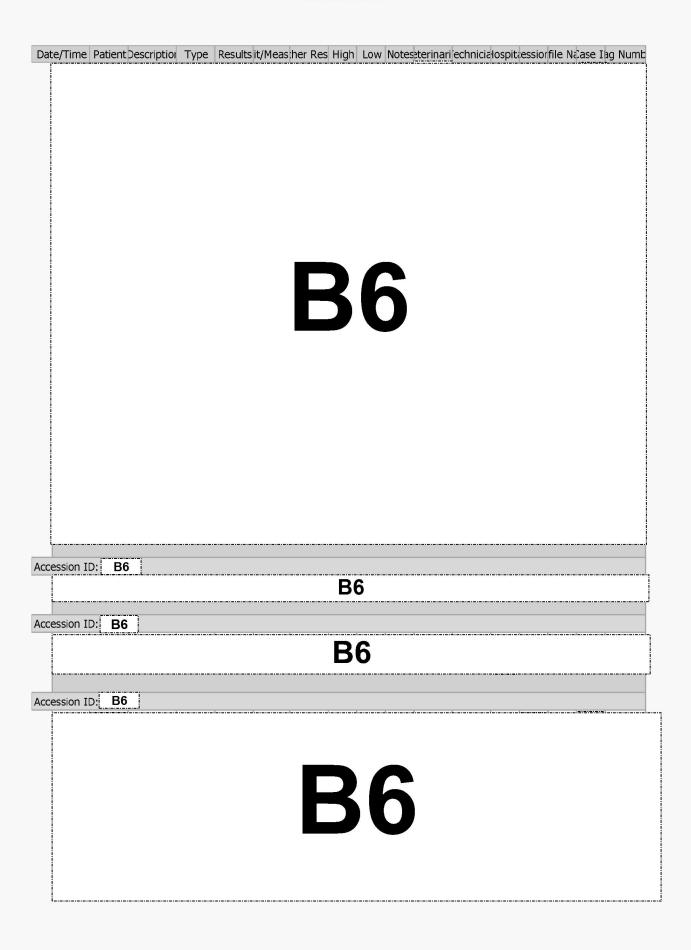
Subject: 9/22/2016 10:34.45 PM additional records for!

Subject:additional records forB6Attachments:labwork.pdf; taurine results.pdf

Lisa M. Freeman, DVM, PhD, DACVN
Board Certified Veterinary Nutritionist<sup>TM</sup>
Professor
Cummings School of Veterinary Medicine
Friedman School of Nutrition Science and Policy
Tufts Clinical and Translational Science Institute
Tufts University
<a href="https://www.petfoodology.org">www.petfoodology.org</a>



Date/Time	Patient Description	Туре	Results it/Meas her Res	High Low	Noteseterinari echnicialospitaessiorfile	Naase Ing Numb
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Date/Time Patient Description Type Results it/Measther Res High Low Noteseterinari echnicialospitaession file Natase Ing Numb **B6** Accession ID: B6 **B6** 

Date/Time Patient Description Type Results it/Meas her Res High Low Notes terinari echnicialospit ession file Notes Lag Numb
<b>B6</b>
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Date/Time	Patient Description	Туре	Results		igh Low	erinari echi	nicia-tospit	essior file	Nease	Iag Numb
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21457

## **Sample Submission Form**

Amino Acid Laboratory University of California, Davis 1020 Vet Med 3B 1089 Veterinary Medicine Drive Davis, CA 95616 Tel: (530)752-5058, Fax: (530)752-4698

UC CUSTOMERS ONLY:
Non-federal funds ID/Account Number
to bill:

**B6** 

9/8/2018 1:22 PM SHIP w ICE PACKS,TAURINE (WHOLE BLOOD) Lithium Heparin

http://www.vetmed.ucdavis.edu,	/vmb/	'aal/	'aal.html
•			

Vet/Tech Contact:	В6		
		et Med	- Clinical Pathology Laboratory
Address: 200 Westbo	oro Road		
North Graft	on, MA 01536		
	s.edu; cardiovet@tufts.edu		-
Tel: 508-887-4669		Fax:	508-839-7936
Billing Contact:	B6		TAX ID:
	B6		
Patient Name: B6 Species: canine Owner's Name: B6			• • •
	asma  Whole Blood durine  Complete Am		
Taurine Results (nmo	Whole Blood B	6	Urine: Food:
		Ì ·	

### Reference Ranges (nmol/ml)

		Plasma	Whole Blood			
	Normal Range	No Known Risk for Taurine Deficiency	Normal Range	No Known Risk for Taurine Deficiency		
Cat	80-120	>40	300-600	>200		
Dog	60-120	>40	200-350	>150		

From:	(FYDIBOHF23SPDLT)/CI	Rotstein, David								
To: Sent:	Carey, Lauren; Ceric, Olgica; Glover, Mark; Jones, Jennifer L; Nemser, Sarah; Palmer, Lee Anne; Peloquin, Sarah; Queen, Jackie L; Rotstein, David									
Subject:	follow-up (not sure if a VL	4/25/2019 3:31:53 PM follow-up (not sure if a VL cases)-FW: Homecooked diet - see diet history in medical record: Lisa								
Attachments:	2066219-report.pdf; Hom	Freeman - EON-385937 2066219-report.pdf; Homecooked diet - see diet history in medical record: Lisa Freeman - EON-374789; 2066219-attachments.zip								
<b>Sent:</b> Thursday, Apri <b>To:</b> Carey, Lauren < L Food Report Notifica	_auren.Carey@fda.hhs.go tion <hqpetfoodreportn< td=""><td>tycreation@fda.hhs.gov&gt; v&gt;; Cleary, Michael * <micl lotification@fda.hhs.gov&gt;;[ n medical record: Lisa Free</micl </td><td>B6</td><th>.gov&gt;; HQ Pet</th></hqpetfoodreportn<>	tycreation@fda.hhs.gov> v>; Cleary, Michael * <micl lotification@fda.hhs.gov&gt;;[ n medical record: Lisa Free</micl 	B6	.gov>; HQ Pet						
A PFR Report has be	een received and Related	PFR Event [EON-385937]	has been created in	the EON System.						
	nts received in the report a	is attached to this email no are compressed into a zip f								
Below is the summar	ry of the report:									
EON Key: EON-3859 ICSR #: 2066219 EON Title: Related F		mecooked diet - see diet hi	story in medical reco	rd; 2066219						
AE Date	11/15/2018	Number Fed/Exposed	1							
Best By Date		Number Reacted	1							
Animal Species	Dog	Outcome to Date	Died Other							
Breed	Doberman Pinscher									
Age	<b>B6</b> Years									
District Involved	PFR-New England DO									
Product Group: Oth Product Name: Hom Description: Arrhyth DCM with VPCs and	ety Report Number: 2066 her necooked diet - see diet hi nmia identified at primary of APCs. Eating unbalanced started taurine supplemen		rine <b>B6</b> (plasma not nended to change die	measured						

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: Died Other

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

Product Name	Lot Number or ID	Best By Date
Homecooked diet - see diet history in medical record		

This report is linked to:

Initial EON Event Key: EON-374789

Initial ICSR: 2060600

#### 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-385937

To view the Related PFR Event Report, please click the link below: <a href="https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none&e=0&issueType=10100&issueId=403065&parentIssueTypeId=12">https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none&e=0&issueType=10100&issueId=403065&parentIssueTypeId=12</a>

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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.

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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-	385937				
ICSR:	2066219				
Type Of Submission:	Followup				
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:					
Initial Report Date:	12/27/2018				
Parent ICSR:	2060600				
Follow-up Report to FDA Request:	Yes				
Reported Problem:	Problem Description:	Arrhythmia identifia	d at primary care vet on 11/15/18. Evaluated at Tufts B6		
	Problem Description.	and diagnosed DCN WB taurine <b>B6</b> (pla supplementation).	If with VPCs and APCs. Eating unbalanced homecooked diet.  Sma not measured because owner had started taurine  Owner was recommended to change diet and we will recheck		
	Date Problem Started:	11/15/2018			
	Concurrent Medical Problem:	Yes			
	Pre Existing Conditions:		B6		
	Outcome to Date:	Died Other	j		
	Date of Death:	ļ			
	<u> </u>	1			
Product Information:	Product Name:	<u> </u>	see diet history in medical record		
	Product Type:	Other			
	Lot Number:				
	Product Use Information:				
	Manufacturer /Distributor Information:				
	Purchase Location Information:				
Animal Information:	Name:	B6			
	Type Of Species:	Dog			
	Type Of Breed:	Doberman Pinschei			
	Gender:				
	Reproductive Status:				
		t: 40.9 Kilogram			
		B6 Years			
	Assessment of Prior Health:	Good			
	Number of Animals Given the Product:	1			
	Number of Animals Reacted:	1			
	Owner Information:	Owner Information provided Contact			
		Address			

H			United States	J	
	Healthcare Professional Information:			s School of Veterinary Medicine	
		Contact:			
				(508) 887-4523	
				lisa.freeman@tufts.edu	
		Address:	200 Westboro North Grafton Massachusetts 01536 United States		
Sender Information:	ame:	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:				
	Preferred Method Of Contact:				
	Reported to Other Parties:	None			
Additional Documents:	Attachment:	<b>B6</b> DCM ge	netic test result	s.pdf	
		Description: Medical Records  B6 DCM genetic test results.pdf			
	Type: Laboratory Report				
	Attachment:	Troponin 4-4-19.pdf			
	Description:	Medical Record			
	Туре:	Laboratory Report			

# NC State College of Veterinary Medicine

# **Veterinary Cardiac Genetics Laboratory**

1060 William Moore Dr., RB 326 Raleigh, NC 27607 vcql@lists.ncsu.edu (919) 513-3314



To request swab collection kits, please visit: https://cvm.ncsu.edu/genetics/cheek-swab-request/

#### Doberman Pinscher Dilated Cardiomyopathy (DCM) Genetic Testing

Dilated cardiomyopathy mutation (DCM) is a form of heart disease in the Doberman pinscher dog. It is an inherited disease, and our laboratory has identified two mutations responsible for the development of DCM. Dogs that are positive for both mutations are at the highest risk of developing DCM

**Owner Name:** 

(PDK4) Result:

NCSU Doberman DCM1 Positive Heterozygous

Dog's Name: **B6**  NCSU Doberman DCM2 Negative Result:

ID #: 320320

Below is an explanation for each possible test result so you can better understand all the possible results and make informed breeding decisions:

Negative Result for both DCM1 and DCM2:	The absence of both mutations in a Doberman indicates that the risk of developing DCM is low. It is still possible for a dog to develop heart disease. However, a negative result for both DCM1 and DCM2 indicates that a dog does not have either mutation known to cause DCM.		
Positive result for NCSU DCM1 only:	<b>About 40% of dogs with this mutation will develop DCM.</b> Dogs that are positive for only DCM1 will not necessarily develop significant heart disease.		
Breeding recommendations:	Dogs are positive for DCM1 should NEVER be bred to a dog that is positive for NCSU DCM 2 since this will lead to dogs that are highest risk of developing DCM. Dogs that are positive homozygous for DCM1 should ideally not be bred.		
Positive Result for NCSU DCM2 only :	<b>About 50% of dogs with this mutation will develop DCM.</b> Dogs that are positive for only DCM2 will not necessarily develop significant heart disease.		
Breeding recommendations:	Dogs are positive for DCM2 should NEVER be bred to a dog that is positive for NCSU DCM1 (PDK4) since this will lead to dogs that are highest risk of developing DCM. Dogs that are positive homozygous for DCM2 should ideally not be bred.		
Positive result for both NCSU DCM1 and NCSU DCM2 :	Dogs that positive for BOTH DCM1 & DCM2 are at a very HIGH risk of developing DCM and should be carefully monitored by your veterinarian for signs of disease. Annual evaluation by a cardiologist with an echocardiogram and Holter monitor after 3 years of age is recommended.		
Breeding recommendations:	Dogs that are positive for both DCM1 & DCM2 are at the HIGHEST risk of developing DCM and should ideally not be bred since they can pass both traits on. They should never be bred to a dog that is positive for either test.		



As always, breeding decisions should be made carefully. Removal of a significant number of dogs from the breeding population could be very bad for the Doberman Pinscher breed. Remember that dogs that carry this mutation may also carry other important good genes that we do not want to lose from the breed.



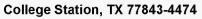


**Comments:** 

## Gastrointestinal Laboratory Dr. J.M. Steiner

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







Website User ID: Cardiovet@tufts.edu OR clinpath@tufts.edu GI Lab Assigned Clinic ID: 11405 В6 Phone: 508 887 4669 Tufts University-Clinical Pathology Lab 9 508 839 7936 Fax: Attn: **B6** Animal Name: 200 Westboro Road North Grafton, MA 01536 Owner Name: USA Species: Canine Date Received: Apr 04, 2019 Gl Lab Accession: B6 **Clinical Pathology Tracking Number: 320320 Test Control Range** <u>Result</u> Assay Date **B6 B6 Ultra-Sensitive Troponin I Fasting** ≤0.06

# Important Notices:

#### **Internal Medicine Conference**

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

#### **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 <a href="http://tinyurl.com/ibd-enroll">http://tinyurl.com/ibd-enroll</a> to see if your patient qualifies.

Feline Chronic Pancreatitis- Cats with chronic pancreatitis for more than 2 weeks and fPLI >10  $\mu$ g/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 Email: gilab@cvm.tamu.edu
Fax: (979) 862-2864 vetmed.tamu.edu/gilab

Report Details - EON-	374789				
ICSR:	2060600				
Type Of Submission:	Initial				
Report Version:	FPSR.FDA.PETF.V.V1				
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	ssociated with the product)		
Reporting Type:	Voluntary				
Report Submission Date:	2018-12-27 10:47:28 EST				
Reported Problem:		and diagnosed DCM WB taurine B6 (plas supplementation). Or in 3 months	at primary care vet on 11/15/18. Evaluated at Tufts B6 with VPCs and APCs. Eating unbalanced homecooked diet ma not measured because owner had started taurine wher was recommended to change diet and we will recheck		
	Date Problem Started:	11/15/2018			
	Concurrent Medical Problem:	Yes			
	Pre Existing Conditions:		В6		
	Outcome to Date:	Stable			
Product Information:	Product Name:	Homecooked diet - s	ee diet history in medical record		
	Product Type:	Other			
	Lot Number:				
	Product Use Information:				
	Manufacturer // Distributor Information:				
	Purchase Location Information:				
Animal Information:	Name:	B6			
	Type Of Species:	j			
		Doberman Pinscher			
	Gender:				
	Reproductive Status:				
		40.9 Kilogram			
		B6 Years			
	Assessment of Prior Health:				
	Number of Animals Given the Product: Number of Animals				
	Reacted:	3			
	Owner Information:	Owner Information provided:	Yes		
		Contact:	Name: B6		
			Phone: B6		
			Email: B6		
		Address:	B6		
	1	United States			
	Healthcare Professional Information:	[ [	Tufts Cummings School of Veterinary Medicine		
		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:		5088874523 lisa.freeman@tufts.edu
	Permission To Contact Sender:	Yes	
	Preferred Method Of Contact:	Email	
Additional Documents:			
	Attachment:	rpt_medical_record_	preview.pdf
		<b>B6</b> medical	
		Medical Records	

From: Freeman, Lisa <Lisa.Freeman@tufts.edu>
To: Jones, Jennifer L

Sent: 1/14/2019 10:00:15 PM
Subject: B6 update

Hi Jen

B6 taurine came back B6 plasma, B6 whole blood

Still only 1 dog of all of our cases with low taurine

Lisa

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

Report Details - EON	-376360			
ICSR:	2061170			
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	:::::) 300000 30000			
Reported Problem:	Problem Description:	DCM with infrequent	ehold affected previously Eating various BEG diets Early ventricular ectopy Have been following - owner agreed to mber 2018 appointment so will follow Taurine normal	
	Date Problem Started: Concurrent Medical			
	Problem:			
	Outcome to Date:	Worse/Declining/Det	eriorating	
Product Information:	Product Name:	Annamaet chicken a	nd rice dry + Honest kitchen beef, chicken, or turkey	
	Product Type:			
	Lot Number:	( <u>)</u>		
	Package Type:	BAG		
	Product Use Information:	Description:	See diet history	
	Manufacturer /Distributor Information:			
	Purchase Location Information:			
Animal Information:	Name:	B6		
	Type Of Species:	Dog		
	Type Of Breed:	Doberman Pinscher		
	Gender:	Female		
	Reproductive Status:	Neutered		
	Weight:	34.6 Kilogram		
	Age:	B6 /ears		
	Assessment of Prior	Excellent		
	Health: Number of Animals	3		
	Given the Product: Number of Animals	3		
	Reacted: Owner Information:	Owner Information provided:		
		Contact:	Name: B6	
		Address:	Email:	
		Address.	<b>B</b> 6	
			United States	
	Healthcare Professional Information:	Practice Name: Contact:		
			Phone: (508) 887-4523  Email: lisa.freeman@tufts.edu	

		Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States	
Sender Information:	Name:	Lisa Freeman		
		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:	Attachment:	B6 rpt medical	_record_preview.pdf	
	Description:	***************************************		
		Medical Records		

**Sent:** 1/14/2019 9:56:41 PM

Subject: Annamaet chicken and rice dry + Honest kitchen beef: Lisa Freeman -

EON B6

Attachments: 2061170-report.pdf; 2061170-attachments.zip

A PFR Report has been received and PFR Event [EON-376360] has been created in the EON System.

A "PDF" report by name "2061170-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 "2061170-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-376360

ICSR #: 2061170

**EON Title:** PFR Event created for Annamaet chicken and rice dry + Honest kitchen beef chicken or turkey;

2061170

AE Date	12/21/2017	Number Fed/Exposed	3
Best By Date		Number Reacted	3
<b>Animal Species</b>	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: 2061170** 

Product Group: Pet Food

**Product Name:** Annamaet chicken and rice dry + Honest kitchen beef, chicken, or turkey

**Description:** 2 other dogs in household affected previously Eating various BEG diets Early DCM with

infrequent ventricular ectopy Have been following - owner agreed to change diet at December 2018 appointment

so will follow Taurine normal

**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: 3

Product Name	Lot Number or ID	Best By Date
Annamaet chicken and rice dry + Honest kitchen beef, chicken, or turkey		

## **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-376360

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

 $\underline{https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none\&e=0\&issueType=12\&issueId=393369}$ 

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Report Details - EON	B6		
ICSR:	2061170		
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		
	2019-01-14 16:46:57 EST		
Reported Problem:	Problem Description:	DCM with infrequent	ehold affected previously Eating various BEG diets Early t ventricular ectopy Have been following - owner agreed to mber 2018 appointment so will follow Taurine normal
	Date Problem Started:		
	Concurrent Medical	5 	
	Problem:		
	Outcome to Date:	Worse/Declining/Det	teriorating
Product Information:	Product Name:	Δnnamaet chicken a	and rice dry + Honest kitchen beef, chicken, or turkey
	Product Type:		ind the dry . Honest kilonen beer, emoken, er tarkey
	Lot Number:	,	
	Package Type:	BAG	
	Product Use		One distriction
	Information:	Description:	See diet history
	/Distributor Information:	14 14 14 14 14 14 14 14 14 14 14 14 14 1	
	Purchase Location Information:		
Animal Information:	Name:	B6	
	Type Of Species:	Dog	
	7 (managamananan managamananan managamanan managamanan managamanan managamanan managamanan managamanan managam 7 (managamanan managamanan managamanan managamanan managamanan managamanan managamanan managamanan managamanan	Doberman Pinscher	
	Gender:	<u> </u>	
	Reproductive Status:	Neutered	
	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	34.6 Kilogram	
		B6 /ears	
	Assessment of Prior Health:	7	
	Number of Animals Given the Product:	3	
	Number of Animals Reacted:	3	
	Owner Information:	Owner Information provided:	Yes
		Contact:	Name: B6
			Email:
		Address:	
		Addiess.	<b>B6</b>
			United States
			7.0
	Healthcare Professional Information:	Practice Name:	Tufts Cummings School of Veterinary Medicine
	miorinauon.	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		
		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:		al_record_preview.pdf	
	Description:			
	IVDE:	IMedical Records		
	Туре:	Medical Records		
	Туре:	Medical Records		



## **Foster Hospital for Small Animals**

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

Client: Address: **B6** 

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

**All Medical Records** 

Patient: **B6** 

Breed: Doberman Pinscher

DOB: **B6** 

Species: Canine Sex: Female

Female (Spayed)

Referring Information

**B6** 

**Initial Complaint:** 

**Initial Complaint:** 

**Initial Complaint:** 

Initial	Com	nlaint∙
1111111	CUIII	JI CLIII C.

Vomiting

Exam:

Treatments Completed:

SOAP Text **B6** 7:15PM - **B6** 

**B6** 

Subjective (S): BAR
B6
Objective (O)
B6
H/L: No murmurs, arrhythmias or adventitious lung souds
<b>B6</b>
Referral Diagnostics: Blood work (not available at ER visit)
Diagnostics Completed: B6  B6
Diagnostics Pending: Requested feces be collected and put on hold for possible salmonella testing EDTA and serum on hold in ER fridge

**B6** 

Client: B6	
Patient: DO	
Assessment (A)	DC
	<b>B6</b>
Plan (P)	
<b>B6</b>	
Communication Summary:	
	<b>B6</b>
	DU
SOAP Text Feb 16 2015 3:34PM - <b>B6</b>	
2/16/2015 3:34:42 PM EXAM, GENERAL	
Subjective (S) No vomiting overnight, kept NPO. QAR and nervous this r	morning.
Additional history:	B6
	<b>B6</b>
H/L: NSR, NMA, fpss; eupneic, normal BV sounds bilater	rally
В	<b>6</b>

Assessment (A)

Client: **B6** Patient: **B6 B6** 2/17/2015 7:35:35 AM **B6 SOAP Text** Feb 17 2015 5:35PM -**B6** 2/17/2015 6:17:50 PM EXAM, GENERAL Subjective (S) Looks brighter this morning. No vomiting, but still having large bowel diarrhea. No interest in food. Owner says that **B6** is normally a picky eater. Objective (O) **B6** H/L: NSR, NMA, fpss; normal BV sounds bilaterally Diagnostics: Assessment (A) Plan (P)

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	r
Client:	B6
Patient:	DU

SOAP Text Feb 18 2015 8:49AM - B6
2/18/2015 8:49:54 AM EXAM, GENERAL
Subjective (S) BAR. At boiled hamburger and rice at owner visit last night continued to eat purina EN throughout the night. No vomiting noted. Still has some [
Objective (O)
<b>B6</b>
H/L: NSR, NMA, fpss; normal BV sounds bilaterally
<b>B6</b>
Assessment (A)
<b>B6</b>
Plan (P)  B6
2/18/2015 9;29:02 AM  Prescribed - Instructions  B6
Initial Complaint: Emergency
SOAP Text Feb 20 2015 8:41AM - B6
2/20/2015 12:51:27 PM NEW VISIT (ER)  Doctor Studen B6  Presenting complaint: B6
<b>B6</b>

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Client: Patient: <b>B6</b>
On car ride here: vomited small amount of fluid/foam
Past pertinent medical history:
<b>B6</b>
Dietary history:
Type of food: Boiled hamburger and rice Amount per feeding:
Feedings per day:
Visit is a referral: No Bloodwork completed prior to arrival: None
Exam:
<b>B6</b>
Objective (O)
B6
H/L: HR: 120, NMA, NSR, PSS. RR: 36, eupenic, normal BV sounds
<b>B6</b>
DU
Referral Diagnostics: None
Diagnostics Completed:
B6
Abdominal Radiographs: Normal abdomen
Abdominal US:
<b>B6</b>
Diagnostics Pending: None
Treatments Completed:  B6
Assessment (A)  B6
DÜ
Plan (P)

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Client: Patient:

**B6** 

**B6** 

Additional requests submitted:

Estimate given: \$

Deposit collected: \$

**B6** 

**Initial Complaint:** 

Emergency

**SOAP Text** Feb 28 2015 8:21PM -

**B6** 

2/28/2015 8:21:20 PM NEW VISIT (ER)

**B6** 

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Client: B6 Patient:
Medications currently administered at home B6
Dietary history: Type of food: Raw diet since weaning Amount per feeding: Feedings per day:
Visit is a referral: Yes No Bloodwork completed prior to arrival:
Exam:
<b>B6</b>
Objective (O)
<b>B6</b>
Treatments Completed:  B6
Assessment (A)  B6
Plan (P)
B6
Communication Summary: B6
<b>B</b> 6
Additional requests submitted:
Estimate given: \$ Deposit collected: \$
Prescribed - B6

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Client: **B6** 

**Initial Complaint:** 

recheck

SOAP Text Mar 3 2015 3:27PM **B6 Initial Complaint:** Emergency SOAP Text May 2 2015 11:05PM -В6 5/2/201<u>5 11:05:54 PM NEW VISIT</u> (ER) Doctor: **B6** Student

Past pertinent medical history:

Presenting complaint: B6

**B6** 

Medications currently administered at home:

**B6** 

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Client: **B6** Patient: **B6** Visit is a referral: No Bloodwork completed prior to arrival: No Exam: **B6** Objective (O) H/L: HR 96, NMA, NSR, SSP, RR 28, normal effort, normal BV sounds bilaterally Abd: soft, non painful, gas filled loops UG: intact female, normal externally, no discharge MSI: ambulatory x 4, no ectoparasites, normal hair coat Neuro: mentally appropriate, full exam not performed Rectal: mucoid discharge, otherwise WNL Referral Diagnostics: None Diagnostics Completed: Ocular exam Diagnostics Pending: None Treatments Completed: None Assessment (A) **B6** Plan (P) Communication Summary:

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Patient:	B6					
D					ì	
Prescribed - Instructions		B6				
Prescribed - Instructions Initial Comple		B6				
Emergency	amt:					
SOAP Text	B6 8:51AM-	В6				
B6 9:09	9:46 AM: TS (FHSA) 6.8 9:46 AM: PCV ** 50 9:13 AM NEW VISIT (EF	R)				
Referral visit?	B6  uplaint: ADR this morning No unpleted prior to visit: Non	e				
HISTORY: B	presented to Tufts ER	for ADR this mo	orning. Not really	willing to get or	ut of bed and hunch	ned/shaky.
Current medica Diet:	nistory: No concerns ations: None atus/flea & tick preventativ	e use:				
EXAM:			7			
<u> </u>	B6		<u>.</u>			
BCS: B6						
Hydration:	B6					
EENT:			В6			
		В6				
C/V: NSR, NM	1A, fpSS.					·1
		B	6			
ASSESSMEN' A1: ADR r/o d A2: DCM	T: lilated cardiomyopathy vs p	yometra vs prim	nary GI			<u>l</u>
	B6		]			

Client: Patient: B6
PLAN: - Thoracic radiographs; mild cardiomegaly with mild right ventricular enlargement - Cardiology consult
B6
Diagnostics completed:  B6
Diagnostics pending:
<b>B6</b>
Client communication:
Deposit & estimate status:
Resuscitation code (if admitting to ICU):
SOAP approved (DVM to sign):
Initial Complaint:  B6
SOAP Text Dec 21 2017 9:56AM - B6
Initial Complaint: Chief New Soft Tissue, spay Referred by cardiology
SOAP Text Mar 7 2018 11:07AM - B6
Subjective  EXAM, GENERAL  B6 4 yo intact female presenting for spay. Referred from cardio- echocardiogram shows LV dilation, ECG-occassional VPCs, currently on B6 Doing well at home.
Subjective (S)  B6
Objective (O)
<b>B6</b>
H/L: HR 100, NSR, NMA. fpss. Lung fields clear with normal BV sounds. No crackles/wheezes  B6

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FDA-CVM-FOIA-2019-1704-007884

Client: Patient: B6
B6
Assessment (A) A1: Healthy female presenting for spay A2: LV dilation with occassional VPCS- r/o early DCM on carvediolol
Plan (P) <b>B6</b>
SOAP completed by: B6 SOAP reviewed by:
Initial Complaint: B6
SOAP Text Apr 20 2018 7:57AM B6
Subjective
B6 4 yo intact female doberman presenting for B6 Referred from cardio -
echocardiogram shows LV dilation, ECG - occasional VPCs, currently on <b>B6</b> D gave morning dose of carvediolol
Current medications:  B6
Subjective (S)
B6
Objective (O)
<b>B6</b>

Client: Patient: B6
H/L: Normal sinus rhythm, no murmur heard. Femoral pulses strong and synchronus. Lung fields clear with
normal BV sounds. No crackles/wheezes
<b>B6</b>
Assessment (A)
A1. Intact female presenting for B6
A2: LV dilation with occasional VPCS- r/o early DCM or <b>B6</b>
\
Plan (P)
B6
SOAP completed by D.G.
SOAP completed by SOAP reviewed by:
Addendum:  B6
SOAP Text Apr 21 2018 8:55AM - Clinician, Unassigned FHSA Subjective
EXAM, GENERAL
B6 now A 4 yo female spayed doberman who presented for B6
Referred from cardio - echocardiogram shows LV dilation, ECG- occasional VPCs, currently on
· · · · · · · · · · · · · · · · · · ·
Overnight Update:
<b>B6</b>
Recent Diagnostics:
R6

r	
Client: Patient: <b>B6</b>	
<b>B6</b>	
Current medications:	
B6	
Subjective (S)  B6  Objective (O)	
<b>B6</b>	
H/L: Normal sinus rhythm, no murmur heard. Femoral pulses strong and synchronous. Lung fields clear with normal BV sounds. No crackles/wheezes	
<b>B6</b>	
Assessment (A) A1: 1 Day post- B6 A2: LV dilation with occasional VPCS- r/o early DCM or B6	
Plan (P)	
<b>B6</b>	
SOAP completed by: B6	

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	·
Client:	R6
Patient:	<b>D</b> 0

SOAP reviewed by: **B6** 

**Initial Complaint:** 

Chief Special--recheck **B6** 

SOAP Text Apr 23 2018 2:32PM - B6

**Subjective** 

EXAM, GENERAL

**B6** 

**Recent Diagnostics:** 

**B6** 

**Current medications:** 

**B6** 

Subjective (S)

**B6** 

Client: Patient:	В6

<b>h</b>
U

H/L: Normal sinus rhythm, no murmur appreciated. Femoral pulses strong and synchronous. Normal bronchovesicular sounds in all lung fields. Eupneic.

**B6** 

Assessment (A)
A1: 3 Day post- B6
inappetent, quiet, intermittent trembling at homer/o mild nausea vs discomfort vs other
A3: LV dilation with occasional VPCS- r/o early DCM stable. or <b>B6</b>
Plan (P)

SOAP completed by SOAP reviewed by:

### **Initial Complaint:**

Tech - ECG

SOAP Text May 7 2018 10:58AM - Rush, John

**Initial Complaint:** 

Client: Patient:	B6	
Recheck -		

Initial Complaint:  Recheck - B6	
SOAP Text Dec 11 2018 10:40AM - B6	

Cummings	
Veterinary Medical	Center

Client:	B6	
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:	Doberman Pinscher
Sex:	Female (Spayed)
Age:	B6 Years Old

# **Lab Results Report**

Nova Full Panel-ICU	2/15/2015 8:33:00 PM	Accession ID: B6	
Test	Results	Reference Range	Units
TCO2 (POC)		0 - 0	mmol/L
CA (ionized)		1.17 - 1.38	mmol/L
NA (POC)		140 - 154	mmol/L
nMG		0 - 0	mmol/L
nCA		0 - 0	mmol/L
FiO2		0 - 0	%
HB (POC)		12.6 - 16	g/dL
BEb		0 - 0	mmol/L
MG (POC)		0.1 - 0.4	mmol/L
A	DC	0 - 0	mmHg
CL(POC)	<b>B6</b>	109 - 120	mmol/L
GLUCOSE (POC)		80 - 120	mg/dL
LACTATE		0 - 2	mmol/L
HCT (POC)		38 - 48	%
NOVA SAMPLE		0 - 0	
CA/MG		0 - 0	mol/mol
GAP		0 - 0	mmol/L
K (POC)		3.6 - 4.8	mmol/L
CREAT (POC)		0.2 - 2.1	mg/dL
BUN (POC)		12 - 28	mg/dL
BEecf		0 - 0	mmol/L
	20/153	В6	

stringsoft

Printed Monday, January 14, 2019

Client: <b>B6</b> Patient:			
SO2%		94 - 100	%
PO2		80 - 100	mmHg
PCO2		36 - 44	mmHg
PH	<b>B6</b>	7.337 - 7.467	
PCO2		36 - 44	mmHg
PO2		80 - 100	mmHg
HCO3		18 - 24	mmol/L
Nova Full Panel-ICU	2/15/2015 9:45:12 PM	Accession ID: B6	
Test	Results	Reference Range	Units
Blood Glucose (Glucometer) - FHSA	B6	0 - 0	mg/dl
Nova Full Panel-ICU	2/16/2015 1:33:00 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
HCT(ADVIA)		39 - 55	%
MCV(ADVIA)		64.5 - 77.5	fL
MCHC(ADVIA)	DC	31.9 - 34.3	g/dL
MCH(ADVIA)	<b>B6</b>	21.3 - 25.9	pg
COMMENTS (HEMATOLOGY)		0 - 0	
HGB(ADVIA)		13.3 - 20.5	g/dL
PLT(ADVIA)		173 - 486	K/uL
RDW (ADVIA)		11.9 - 15.2	
MPV (ADVIA)	<u>[</u>	8.29 - 13.2	fl
Nova Full Panel-ICU	2/16/2015 1:33:00 PM	Accession ID: B6	
Test	Results	Reference Range	Units
TRIGLYCERIDES		30 - 338	mg/dl
GLUCOSE		67 - 135	mg/dL
ALT		14 - 86	U/L
T BILIRUBIN		0.1 - 0.3	mg/dL
I BILIRUBIN		0 - 0.2	mg/dL
T. PROTEIN		5.5 - 7.8	g/dL
GGT	DC	0 - 10	U/L
D.BILIRUBIN	B6	0 - 0.1	mg/dL
CREATININE		0.6 - 2	mg/dL
CALCIUM2		9.4 - 11.3	mg/dL
AMYLASE		409 - 1250	U/L mFa/I
POTASSIUM A/G RATIO		3.7 - 5.4 0.7 - 1.6	mEq/L
NA/K		0.7 - 1.6 29 - 40	
GLOBULINS		2.3 - 4.2	g/dL
OLODOLING	i	2.3 - 4.2	g/dL
	21/153	В6	

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MMG CL(POC) CA/MG SO2% CREAT (POC)		109 - 120 0 - 0 94 - 100 0.2 - 2.1	mol/mol % mg/dL
MMG CL(POC) CA/MG SO2%		0 - 0 94 - 100	mol/mol %
MMG CL(POC)			
nMG		109 - 120	IIIIIOI/L
		100 100	mmol/L
		0 - 0	mmol/L
NA (POC)	<b>B6</b>	140 - 154	mmol/L
ICT (POC)		38 - 48	%
iCA		0 - 0	mmol/L
TiO2		0 - 0	%
CA (ionized)		1.17 - 1.38	mmol/L
(POC)		3.6 - 4.8	mmol/L
· est	Results	Reference Range	Units
Jova Full Panel-ICU	2/20/2015 8:41:00 AM	Accession ID: B6	
POIKILOCYTOSIS		0 - 0	
SEGS (AB)ADVIA		2.8 - 11.5	K/ul
No Morphologic Abnormalities			
WBC MORPHOLOGY		0 - 0	
LYMPHS (ABS)ADVIA		1 - 4.8	K/uL
LYMPHS%	B6	7 - 47	%
EOS%		0 - 16	%
MONOS%		1 - 15	%
SEGS%		43 - 86	%
MONOS (ABS)ADVIA		0.1 - 1.5	K/uL
EOS (ABS)ADVIA		0 - 1.4	K/uL
Pest Park Park	Results	Reference Range	Units
Nova Full Panel-ICU	2/16/2015 1:33:00 PM	Accession ID: B6	
ALK PHOS	<u> </u>	12 - 127	U/L
			mEq/L
MAGNESIUM 2+		1.8 - 3	<del>-</del>
JREA		8 - 30	mg/dL
AST		9 - 54	U/L
CO2 (BICARB)		14 - 28	mEq/L
COMMENTS (CHEMISTRY)		0 - 0	q-12
SODIUM	<b>B6</b>	140 - 150	mEq/L
CK	DC	22 - 422	U/L
ALBUMIN		2.8 - 4	g/dL
CHOLESTEROL		82 - 355	mg/dL
AGAP		8 - 19	mg ub
HOSPHORUS		2.6 - 7.2	mg/dL
PHOSPHORUS	!	291 - 315	mmol/L
CHLORIDE  OSMOLALITY (CALCULATED)		106 - 116	mEq/L

stringsoft.

Test Lactate (FHSA) *  Nova Full Panel-ICU  Test  WBC (ADVIA)  RBC(ADVIA)  HGB(ADVIA)  HCT(ADVIA)  MCV(ADVIA)  MCH(ADVIA)  MCH(ADVIA)  MCHC(ADVIA)  RDW (ADVIA)	B6 9/28/2016 9:06:11 AM  Results  B6	0 - 0  Accession ID: B6  Reference Range  4.4 - 15.1  5.8 - 8.5  13.3 - 20.5  39 - 55  64.5 - 77.5  21.3 - 25.9  31.9 - 34.3  11.9 - 15.2	Units  K/uL  M/uL  g/dL  %  fL  pg  g/dL
Lactate (FHSA) *  Nova Full Panel-ICU  Test  WBC (ADVIA)  RBC(ADVIA)  HGB(ADVIA)  HCT(ADVIA)  MCV(ADVIA)  MCH(ADVIA)	9/28/2016 9:06:11 AM  Results	Accession ID: B6  Reference Range  4.4 - 15.1  5.8 - 8.5  13.3 - 20.5  39 - 55  64.5 - 77.5  21.3 - 25.9	Units  K/uL  M/uL  g/dL  %  fL  pg
Lactate (FHSA) *  Nova Full Panel-ICU  Test  WBC (ADVIA)  RBC(ADVIA)  HGB(ADVIA)  HCT(ADVIA)  MCV(ADVIA)	9/28/2016 9:06:11 AM  Results	Reference Range 4.4 - 15.1 5.8 - 8.5 13.3 - 20.5 39 - 55 64.5 - 77.5	Units K/uL M/uL g/dL % fL
Nova Full Panel-ICU Test WBC (ADVIA) RBC(ADVIA) HGB(ADVIA) HCT(ADVIA)	9/28/2016 9:06:11 AM	Accession ID: B6  Reference Range  4.4 - 15.1  5.8 - 8.5  13.3 - 20.5  39 - 55	Units K/uL M/uL g/dL %
Nova Full Panel-ICU Test WBC (ADVIA) RBC(ADVIA) HGB(ADVIA)	9/28/2016 9:06:11 AM	Reference Range 4.4 - 15.1 5.8 - 8.5 13.3 - 20.5	Units K/uL M/uL g/dL
Nova Full Panel-ICU Test WBC (ADVIA) RBC(ADVIA)	9/28/2016 9:06:11 AM	Reference Range 4.4 - 15.1 5.8 - 8.5	Units K/uL M/uL
Lactate (FHSA) *  Nova Full Panel-ICU  Test  WBC (ADVIA)	9/28/2016 9:06:11 AM	Accession ID: B6  Reference Range 4.4 - 15.1	Units K/uL
Lactate (FHSA) *  Nova Full Panel-ICU  Test	9/28/2016 9:06:11 AM	Accession ID: B6  Reference Range	Units
Lactate (FHSA) * Nova Full Panel-ICU	9/28/2016 9:06:11 AM	Accession ID: B6	
Lactate (FHSA) *	L.z.z.i	, management and	IIIIIOI/L
	B6	0 - 0	IIIIIOI/L
			mmol/L
	Results	Reference Range	Units
Nova Full Panel-ICU	9/28/2016 9:06:21 AM	Accession ID: B6	
TS (FHSA)	<u> </u>	0 - 0	g/dl
PCV **	B6	0 - 0	%
ΓS (FHSA)		0 - 0	g/dl
Test	Results	Reference Range	Units
Nova Full Panel-ICU	2/20/2015 9:24:29 AM	Accession ID: B6	
HCO3		18 - 24	mmol/L
PO2		80 - 100	mmHg
PCO2		36 - 44	mmHg
PII		7.337 - 7.467	-
PO2		80 - 100	mmHg
PCO2		36 - 44	mmHg
GLUCOSE (POC)		80 - 120	mg/dL
GAP		0 - 0	mmol/L
MG (POC)	B6	0.1 - 0.4	mmol/L
BEb	D6	0 - 0	mmol/L
BEecf		0 - 0	mmol/L
LACTATE		0 - 2	mmol/L
BUN (POC)		12 - 28	mg/dL
HB (POC)		12.6 - 16	g/dL
NOVA SAMPLE		0 - 0	
A		0 - 0	mmHg
		0 - 0	mmol/L

Client: **B6** 

Test	Results	Reference Range	Units
GLUCOSE		67 - 135	mg/dL
UREA		8 - 30	mg/dL
CREATININE		0.6 - 2	mg/dL
PHOSPHORUS		2.6 - 7.2	mg/dL
CALCIUM2		9.4 - 11.3	mg/dL
MAGNESIUM 2+		1.8 - 3	mEq/L
T. PROTEIN		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
CHLORIDE		106 - 116	mEq/L
POTASSIUM		3.7 - 5.4	mEq/L
tCO2 (BICARB)	DC	14 - 28	mEq/L
AGAP	<b>B6</b>	8 - 19	
NA/K		29 - 40	
T BILIRUBIN		0.1 - 0.3	mg/dL
D.BILIRUBIN		0 - 0.1	mg/dL
I BILIRUBIN		0 - 0.2	mg/dL
ALK PHOS		12 - 127	U/L
GGT		0 - 10	U/L
ALT		14 - 86	U/L
AST		9 - 54	U/L
CK		22 - 422	U/L
CHOLESTEROL		82 - 355	mg/dL
TRIGLYCERIDES		30 - 338	mg/dl
AMYLASE		409 - 1250	U/L
OSMOLALITY (CALCULATED)		291 - 315	mmol/L
COMMENTS (CHEMISTRY)		O - O	

Nova Full Panel-ICU	9/28/2016 9:06:09 AM Ac	ccession ID: B6	
Test	Results	Reference Range	Units
SEGS%		43 - 86	%
LYMPHS%		7 - 47	%
MONOS%		1 - 15	%
EOS%	B6	0 - 16	%
SEGS (AB)ADVIA	В	2.8 - 11.5	K/ul
LYMPHS (ABS)ADVIA		1 - 4.8	K/uL
MONOS (ABS)ADVIA		0.1 - 1.5	K/uL
EOS (ABS)ADVIA		0 - 1.4	K/uL

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В6

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Client: <b>B6</b>			
WBC MORPHOLOGY		0 - 0	(
No Morphologic Abnormalities	B6		
POIKILOCYTOSIS		0 - 0	
Nova Full Panel-ICU	9/28/2016 9:09:47 AM	Accession ID: B6	_
Test	Results	Reference Range	Units
TS (FHSA)		0 - 0	g/dl
PCV **	B6	0 - 0	%
TS (FHSA)		0 - 0	g/dl
Nova Full Panel-ICU	12/21/2017 11:10:21 AM	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		2.6 - 7.2	mg/dL
CALCIUM2		9.4 - 11.3	mg/dL
T. PROTEIN		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	C. Carlot
SODIUM		140 - 150	mEq/L
CHLORIDE		106 - 116	mEq/L
POTASSIUM	B6	3.7 - 5.4	mEq/L
NA/K		29 - 40	•
T BILIRUBIN		0.1 - 0.3	mg/dL
D.BILIRUBIN		0 - 0.1	mg/dL
I BILIRUBIN		0 - 0.2	mg/dL
ALK PHOS		12 - 127	U/L
ALT		14 - 86	U/L
AST		9 - 54	U/L
CHOLESTEROL		82 - 355	mg/dL
OSMOLALITY (CALCULATED)		291 - 315	mmol/L
COMMENTS (CHEMISTRY)		0 - 0	
Moderate lipemia Slight hemolysis			
Nova Full Panel-ICU	4/20/2018 8:18:34 AM	Accession ID: B6	
Test	Results	Reference Range	Units
TS (FHSA)		0 - 0	g/dL
AZO (FHSA)		0 - 0	
BG (FHSA)	<b>B6</b>	0 - 0	g/dL
TS (FHSA)		0 - 0	g/dL
PCV *		0 - 0	0/0
	25/153	В6	

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	TC.	
4/20/2018 8:20:00 AM	Accession ID: B6	
Results	Reference Range	Units
B6	0 - 0	%
4/20/2018 4:10:35 PM	Accession ID: B6	
Results	Reference Range	Units
	0 - 0	g/dl
B6	0 - 0	%
	0 - 0	g/dl
4/20/2018 9:44:29 PM	Accession ID: B6	
Results	Reference Range	Units
	0 - 0	g/dl
B6	0 - 0	%
	0 - 0	g/dl
4/23/2018 2:13:08 PM	Accession ID: B6	
Results	Reference Range	Units
	4.4 - 15.1	K/uL
	5.8 - 8.5	M/uL
	13.3 - 20.5	g/dL
D6	39 - 55	%
DO	64.5 - 77.5	$\Pi$
	21.3 - 25.9	pg
	31.9 - 34.3	g/dL
	11.9 - 15.2	
	0 - 0	
	Results  B6  4/20/2018 4:10:35 PM  Results  B6  4/20/2018 9:44:29 PM  Results  B6  4/23/2018 2:13:08 PM	Results

Platelet estimate and/or platelet count may be affected by slight platelet clumping, 10-25 platelets/ 100x field (estimated count of 200,000-500,000/ul)

Nova Full Panel-ICU	4/23/2018 2:13:27 PN	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		2.6 - 7.2	mg/dL
CALCIUM2		9.4 - 11.3	mg/dL
MAGNESIUM 2+	50	1.8 - 3	mEq/L
T. PROTEIN	B6	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
CHLORIDE		106 - 116	mEq/L
	26/153	B6	

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PLT(ADVIA)		173 - 486	K/uL
RDW (ADVIA)		11.9 - 15.2	17 / 1
MCHC(ADVIA)		31.9 - 34.3	g/dL
MCH(ADVIA)		21.3 - 25.9	pg
MCV(ADVIA)	B6	64.5 - 77.5	fL
ICT(ADVIA)	Do	39 - 55	%
IGB(ADVIA)		13.3 - 20.5	g/dL
RBC(ADVIA)		5.8 - 8.5	M/uL
VBC (ADVIA)		4.4 - 15.1	K/uL
Cest	Results	Reference Range	Units
lova Full Panel-ICU	5/7/2018 10:59:13 AM	Accession ID: B6	
OIKILOCYTOSIS		0 - 0	
No Morphologic Abnormalities			
WBC MORPHOLOGY		0 - 0	
EOS (ABS)ADVIA		0 - 1.4	K/uL
MONOS (ABS)ADVIA		0.1 - 1.5	K/uL
YMPHS (ABS)ADVIA	<b>B6</b>	1 - 4.8	K/uL
EGS (AB)ADVIA	DA	2.8 - 11.5	K/ul
OS%		0 - 16	%
MONOS%		1 - 15	%
YMPHS%		7 - 47	%
SEGS%		43 - 86	%
Cest	Results	Reference Range	Units
Nova Full Panel-ICU	4/23/2018 2:13:09 PM	Accession ID: B6	
OSMOLALITY (CALCULATED)		291 - 315	mmol/L
MYLASE		409 - 1250	U/L
TRIGLYCERIDES		30 - 338	mg/dl
CHOLESTEROL		82 - 355	mg/dL
<sup>C</sup> K		22 - 422	U/L
AST		9 - 54	U/L
LT		14 - 86	U/L
<del>G</del> GT		0 - 10	U/L
LK PHOS	B6	12 - 127	U/L
BILIRUBIN		0 - 0.2	mg/dL
D.BILIRUBIN		0 - 0.1	mg/dL
BILIRUBIN		0.1 - 0.3	mg/dL
JA/K		29 - 40	
AGAP		8 - 19	
CO2 (BICARB)		14 - 28	mEq/L
	į į	3.7 - 5.4	mEq/L

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Client: B6			
Patient: By			
MPV (ADVIA)		8.29 - 13.2	fl
PLTCRT	D6	0.129 - 0.403	%
RETIC(ADVIA)	Bb	0.2 - 1.6	%
RETICS (ABS) ADVIA		14.7 - 113.7	K/uL
COMMENTS (HEMATOLOGY)		0 - 0	

Nova Full Panel-ICU	5/7/2018 10:59:28 AM	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		2.6 - 7.2	mg/dL
CALCIUM2		9.4 - 11.3	mg/dL
MAGNESIUM 2+		1.8 - 3	mEq/L
T. PROTEIN		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
CHLORIDE		106 - 116	mEq/L
POTASSIUM		3.7 - 5.4	mEq/L
tCO2 (BICARB)		14 - 28	mEq/L
AGAP	B6	8 - 19	
NA/K	DU	29 - 40	
T BILIRUBIN		0.1 - 0.3	mg/dL
D.BILIRUBIN		0 - 0.1	mg/dL
I BILIRUBIN		0 - 0.2	mg/dL
ALK PHOS		12 - 127	U/L
GGT		0 - 10	U/L
ALT		14 - 86	U/L
AST		9 - 54	U/L
CK		22 - 422	U/L
CHOLESTEROL		82 - 355	mg/dL
TRIGLYCERIDES		30 - 338	mg/dl
AMYLASE		409 - 1250	U/L
OSMOLALITY (CALCULATED)		291 - 315	mmol/L
COMMENTS (CHEMISTRY)		0 - 0	
Slight hemolysis; Moderate lipemia			

Nova Full Panel-ICU	5/7/2018 10:59:10 AM A	ccession ID: B6	
Test	Results	Reference Range	Units
SEGS%	B6	43 - 86	%

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	0 - 0	
	0 - 1.4	K/uL
	0.1 - 1.5	K/uL
B6	1 - 4.8	K/uL
	2.8 - 11.5	K/ul
	0 - 1	/100 WBC
	0 - 16	%
	1 - 15	%
	<b>B6</b>	0 - 16 0 - 1 2.8 - 11.5 1 - 4.8 0.1 - 1.5

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**B6 Archived RDVM** ref and labs 4/2014-5/2014 **B6**  Client: Patient:

**B6** 

Archived RDVM B6 f and labs 4/2014-5/2014

Client: Patient:

**B6** 

**Archived RDVM** 

**B6** 

ref and labs 4/2014-5/2014

Client: Patient:

**B6** 

Archived RDVM **B6** ref and labs 4/2014-5/2014 **B6** 

Archived RDVM B6 ref and labs 4/2014-5/2014

**B6** Archived RDVM ef and labs 4/2014-5/2014 **B6** 

Archived RDVN B6 f and labs 4/2014-5/2014 **B6**  Client: **B6**Patient:

**Archived RDVN B6** ref and labs 4/2014-5/2014 **B6** 

Archived RDVI **B6** ref and labs 4/2014-5/2014 **B6** 

Archived RDVN B6 ref and labs 4/2014-5/2014

**B6** 

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Client: Patient: **B6** 

Archived RDVM **B6** ef and labs 4/2014-5/2014 **B6**  Client: **B6**Patient:

Archived RDVI B6 ref and labs 4/2014-5/2014

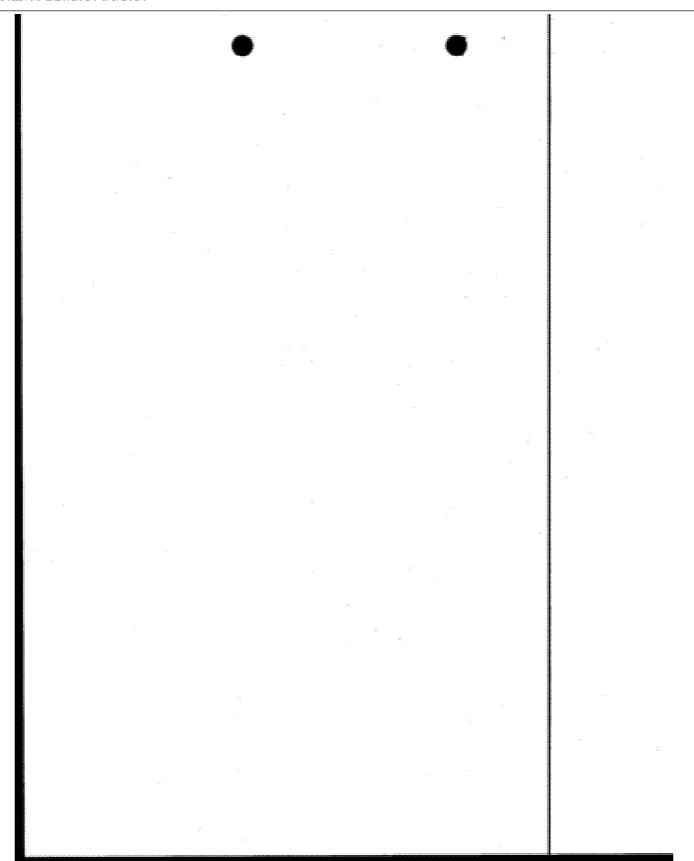
Client: Patient: **B6** 

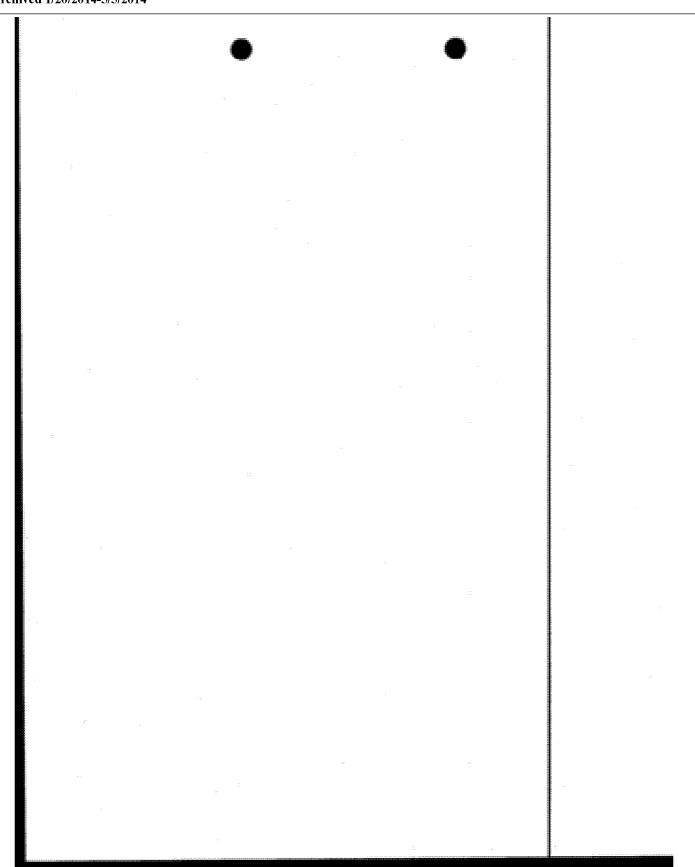
Archived RDVN B6 ref and labs 4/2014-5/2014

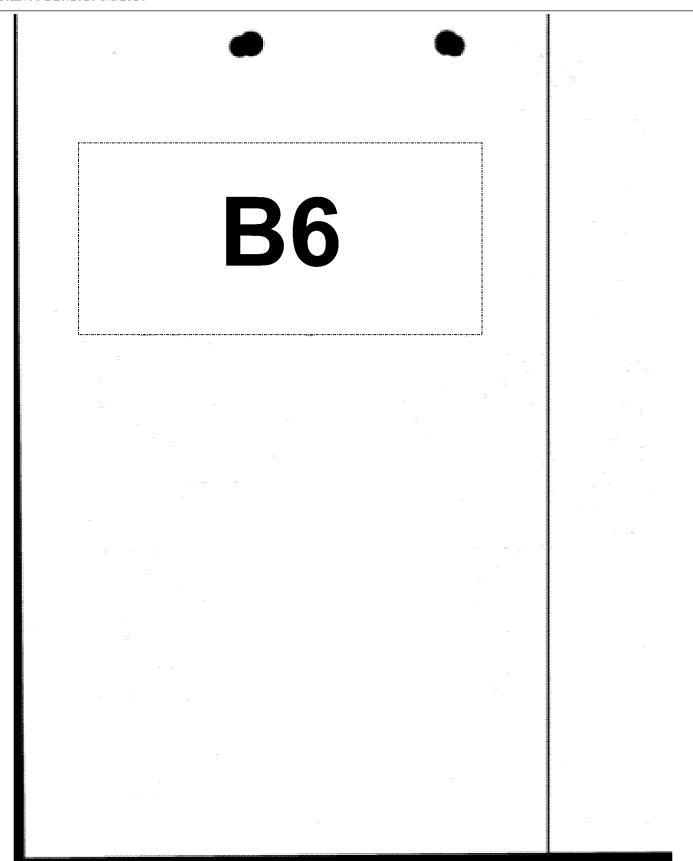
Archived lab results notes 4/2014

Client:
Patient:

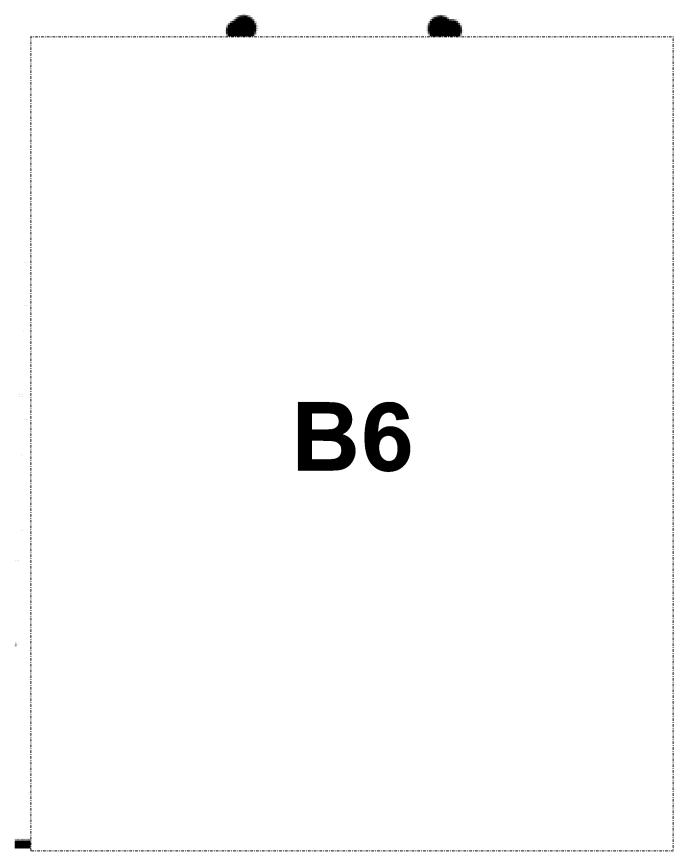
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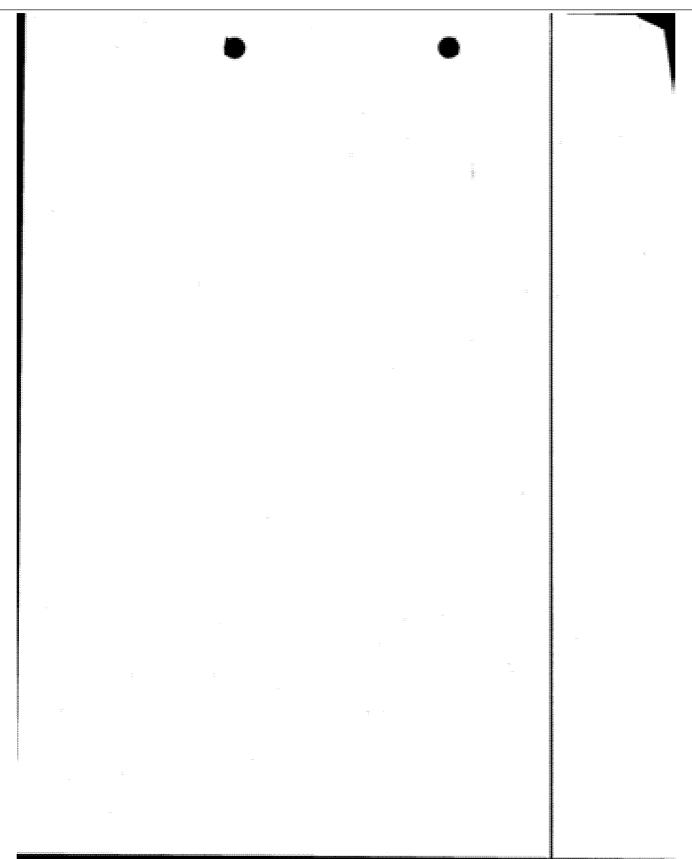


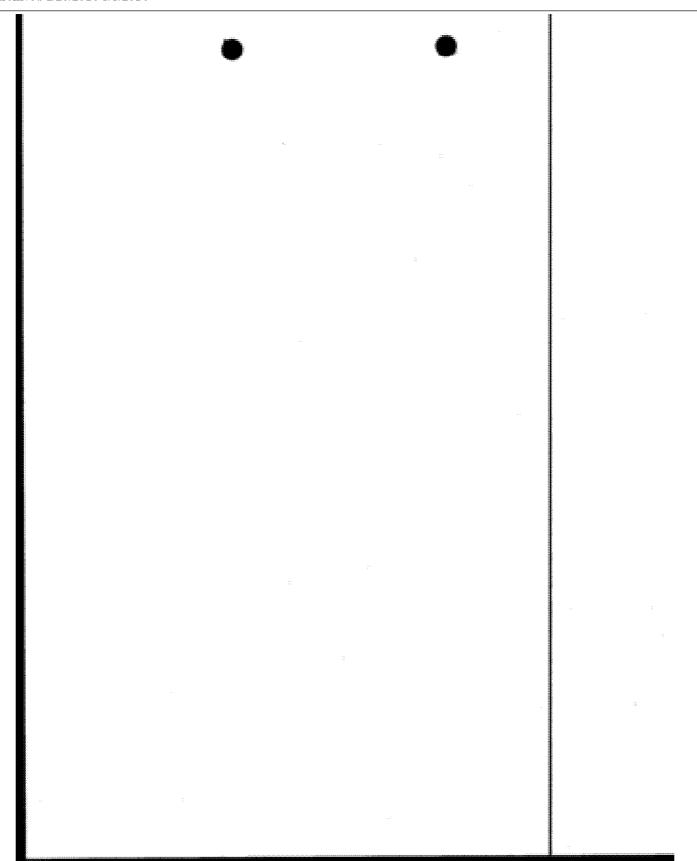


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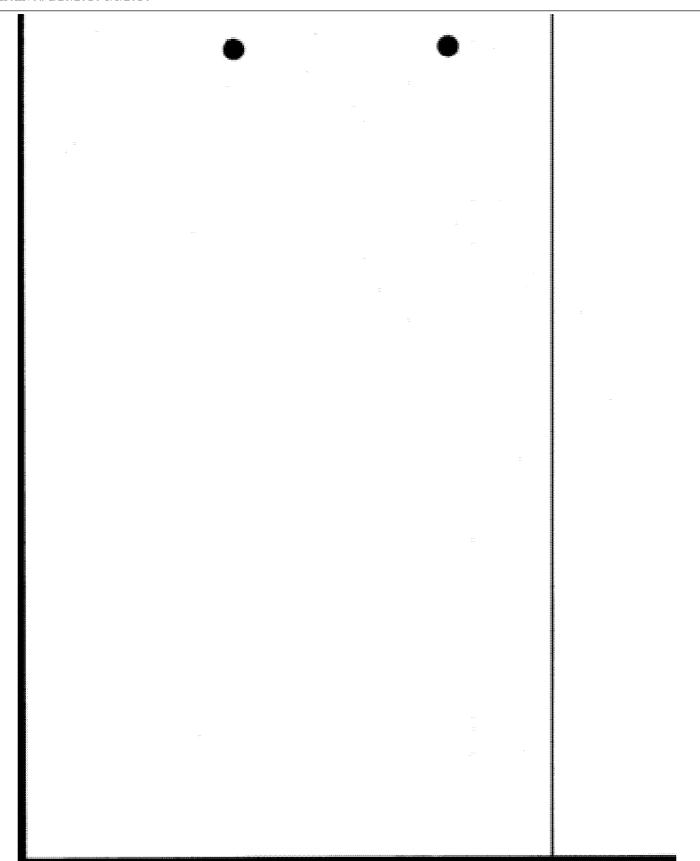


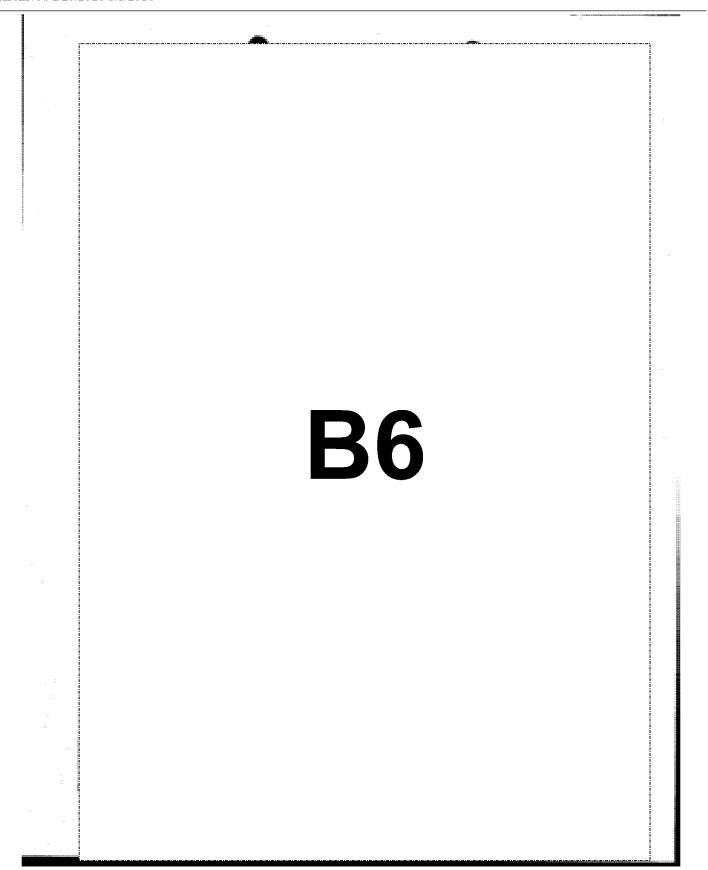
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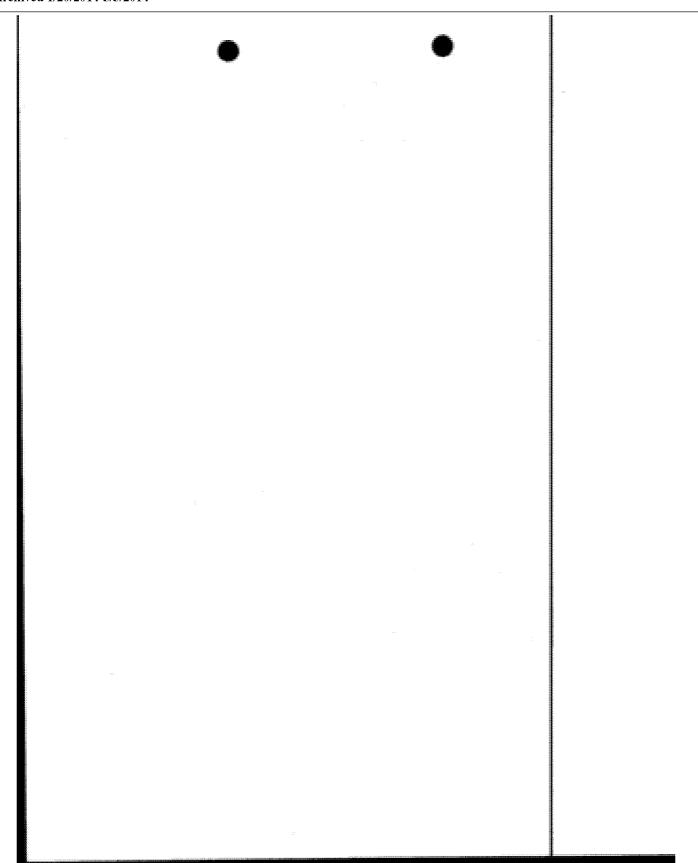


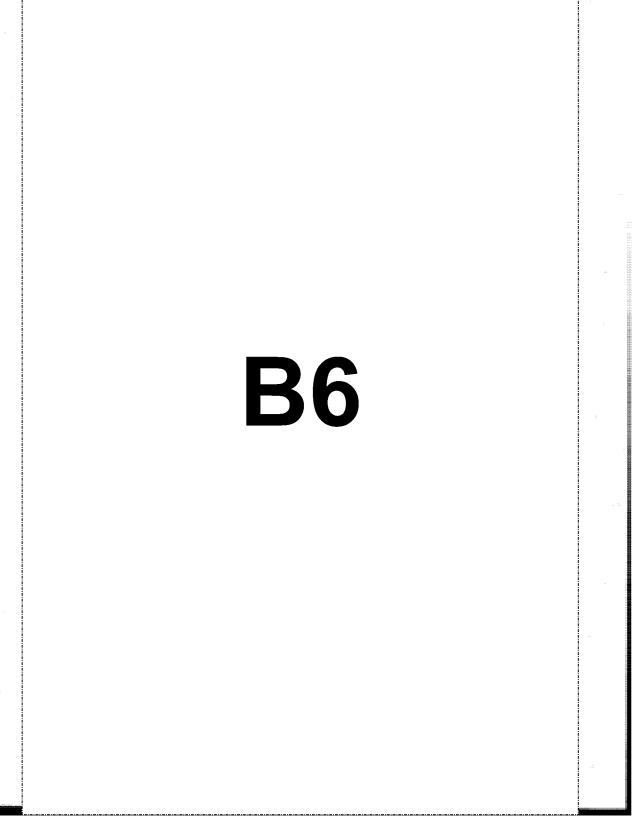
Page 56/153

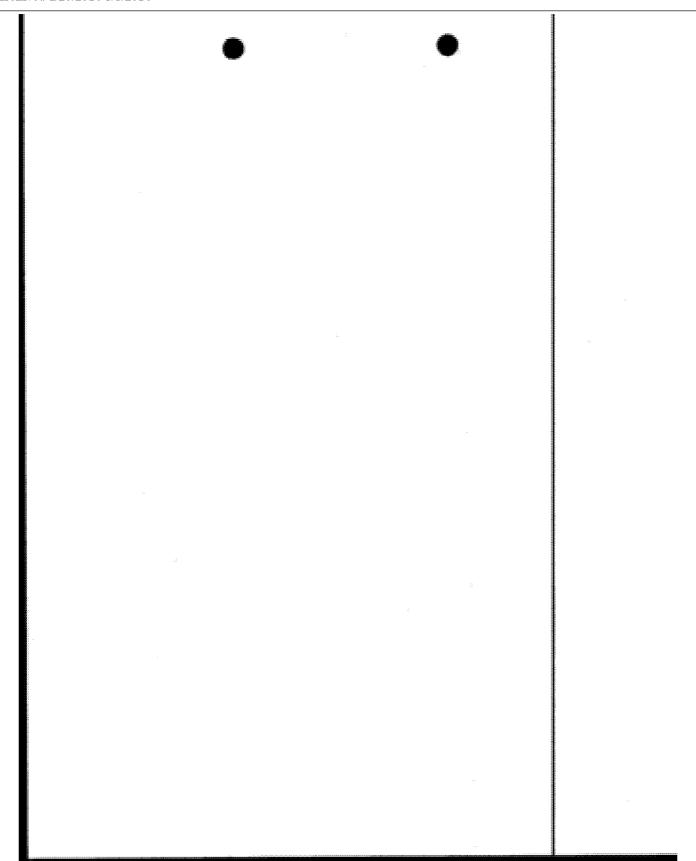


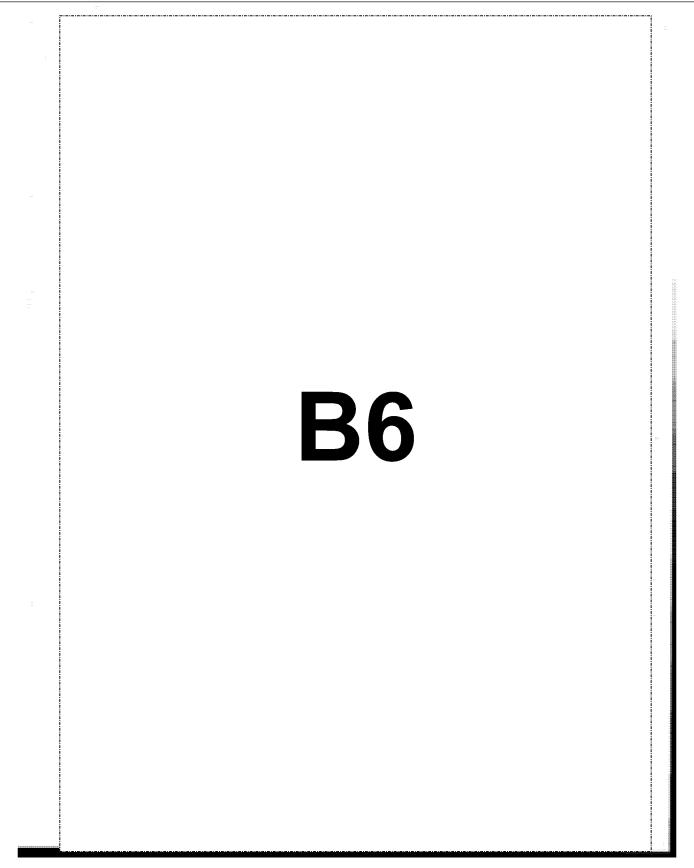


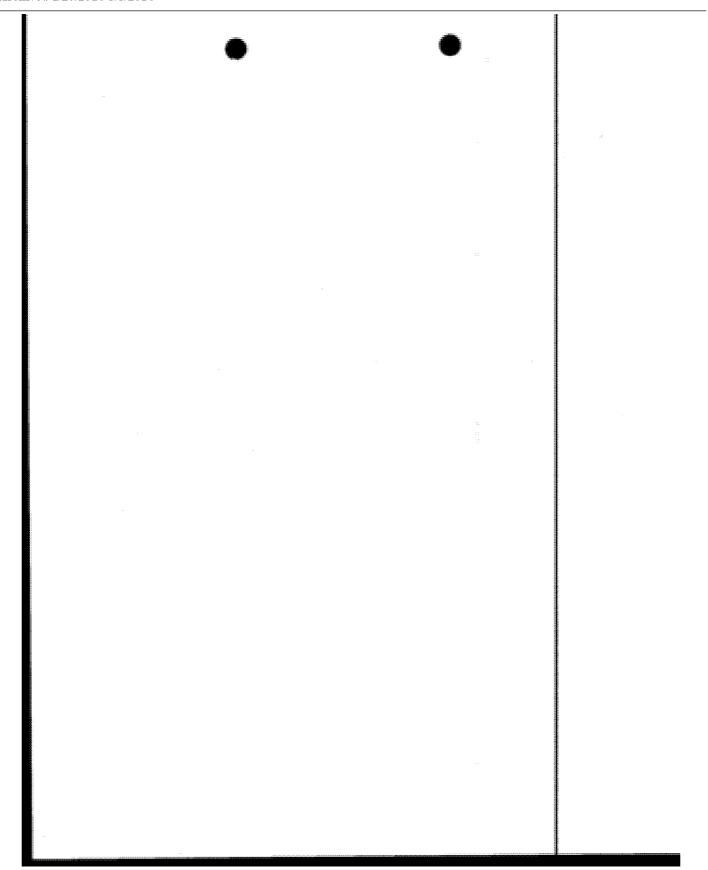
Page 58/153

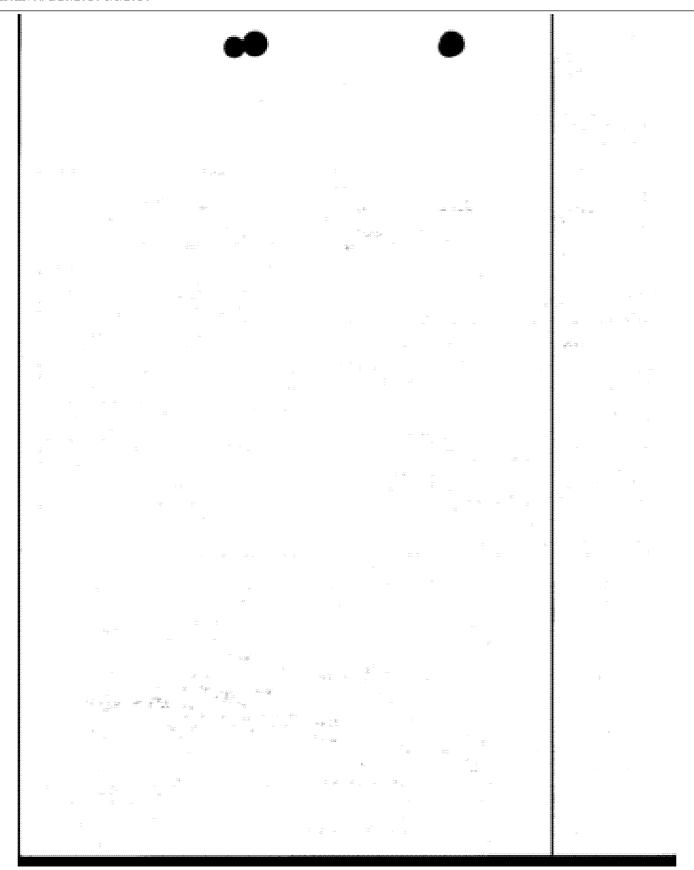






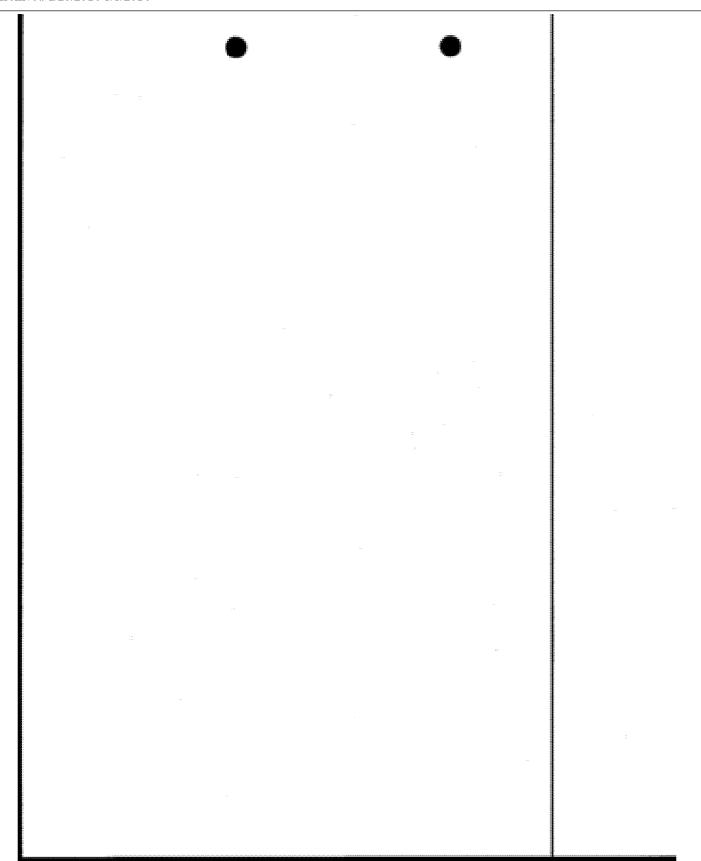






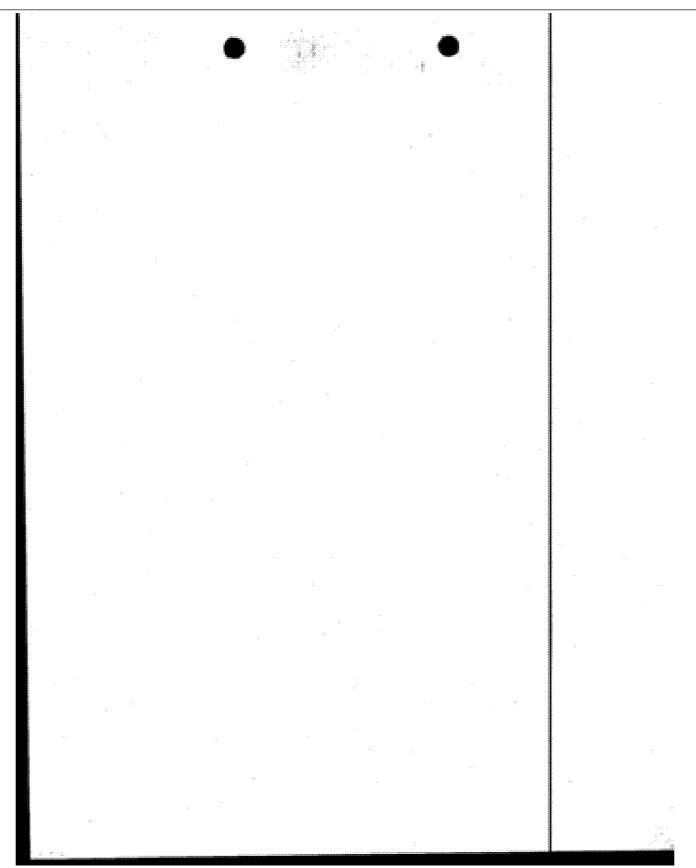
Page 65/153

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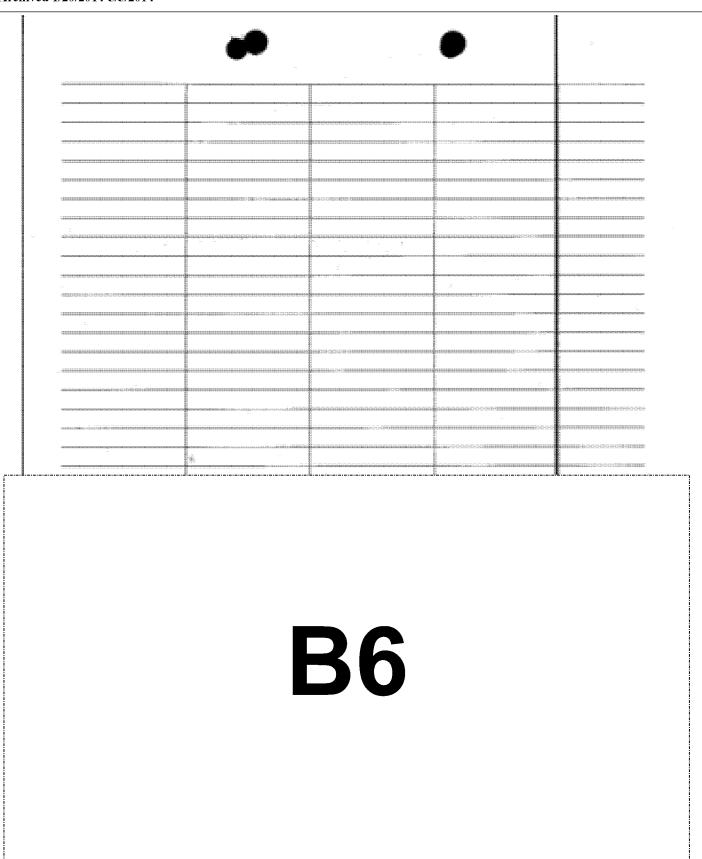


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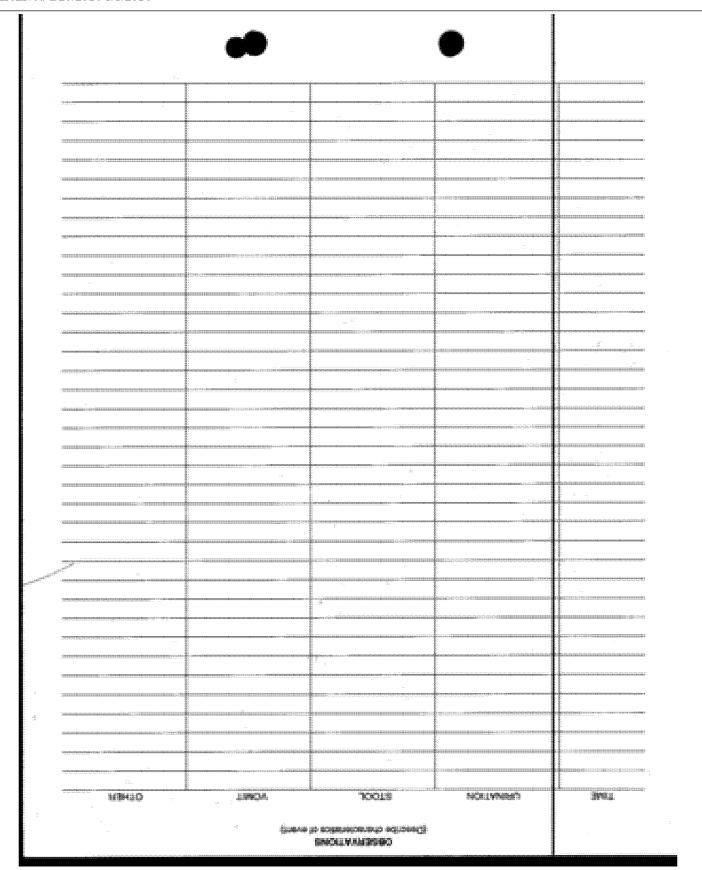
**B6** 



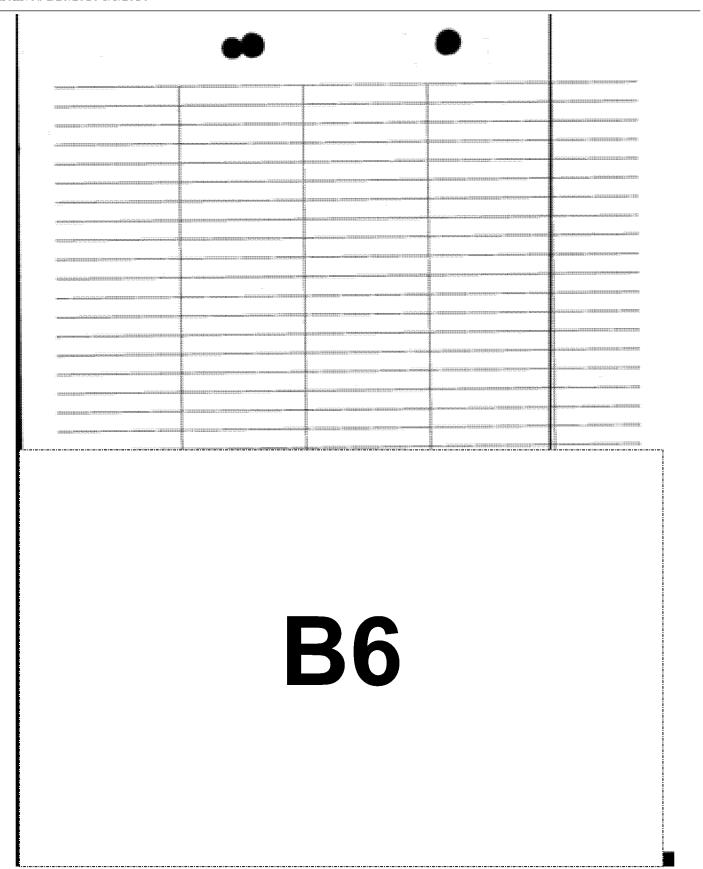
Page 71/153

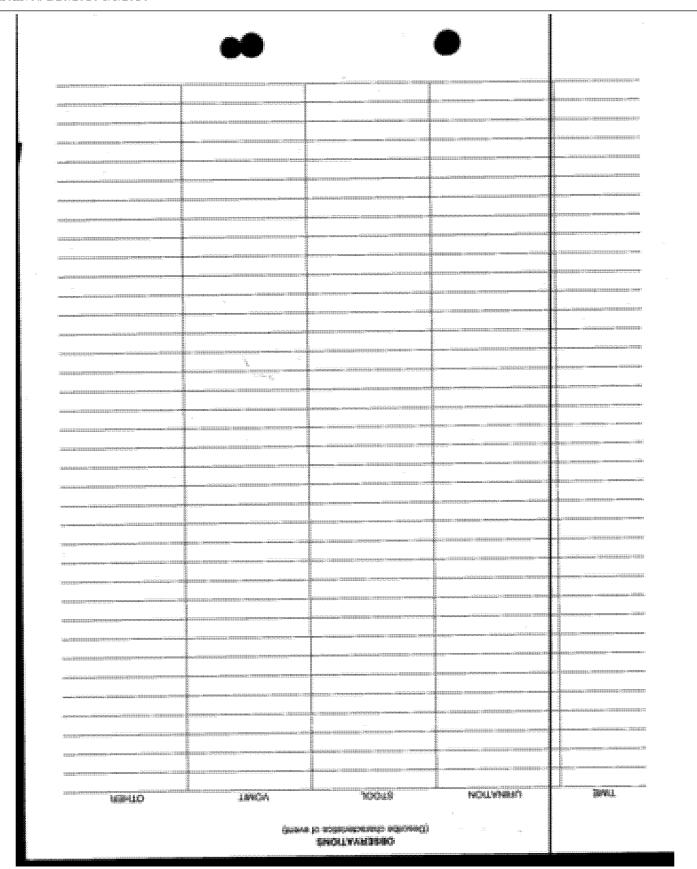


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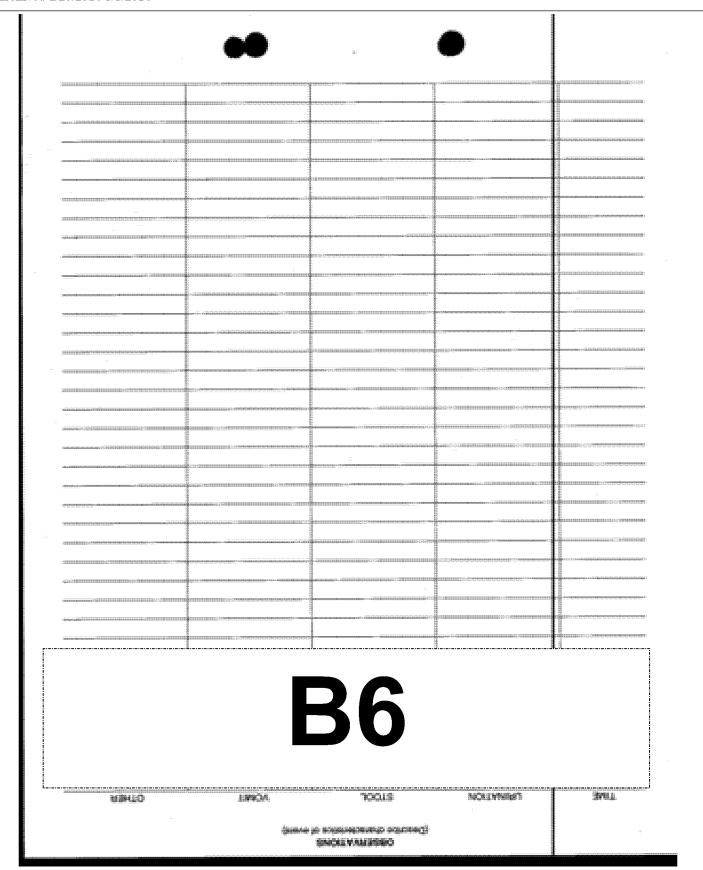


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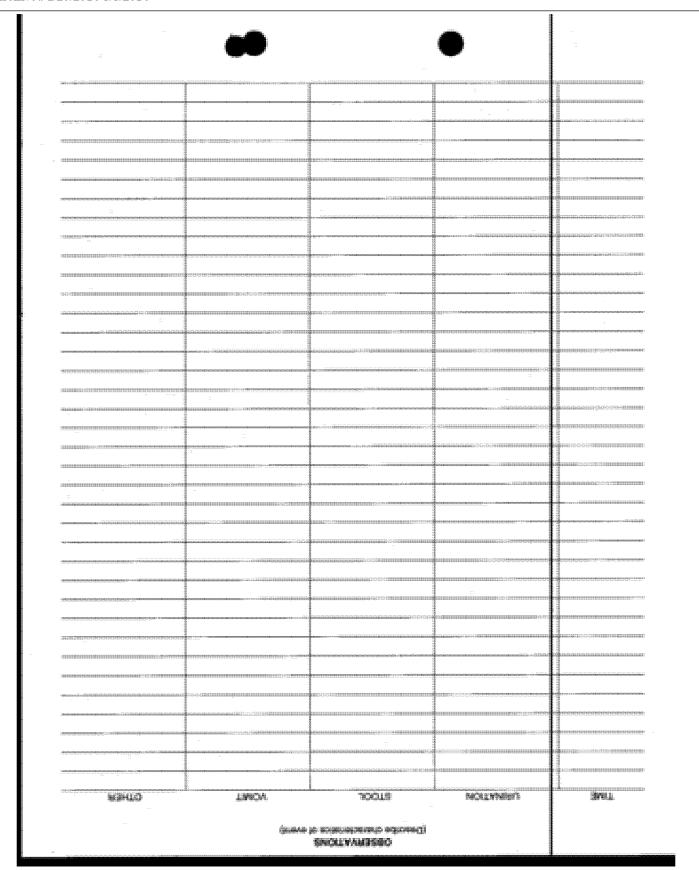


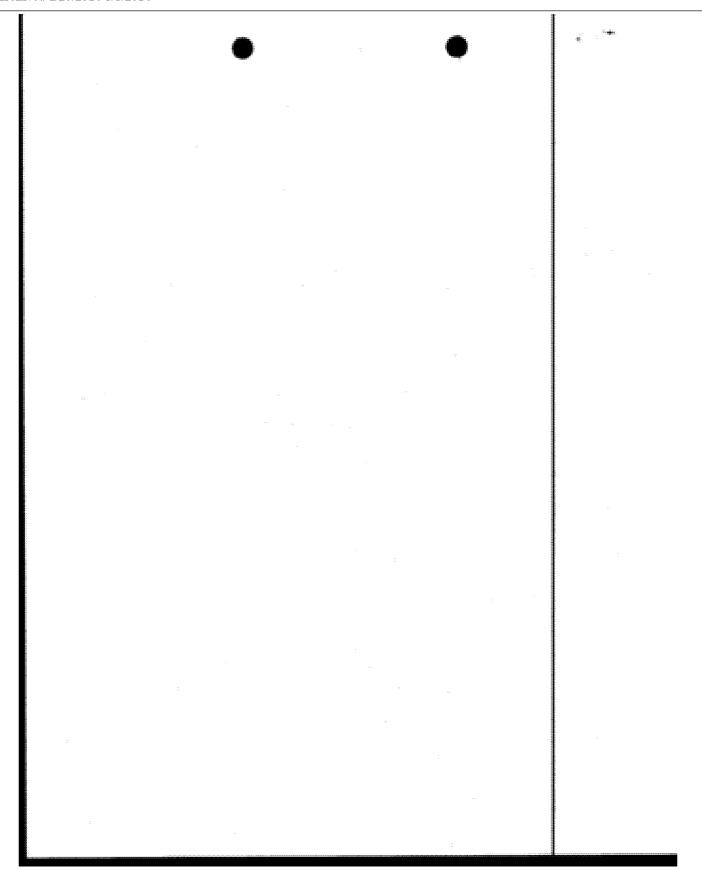
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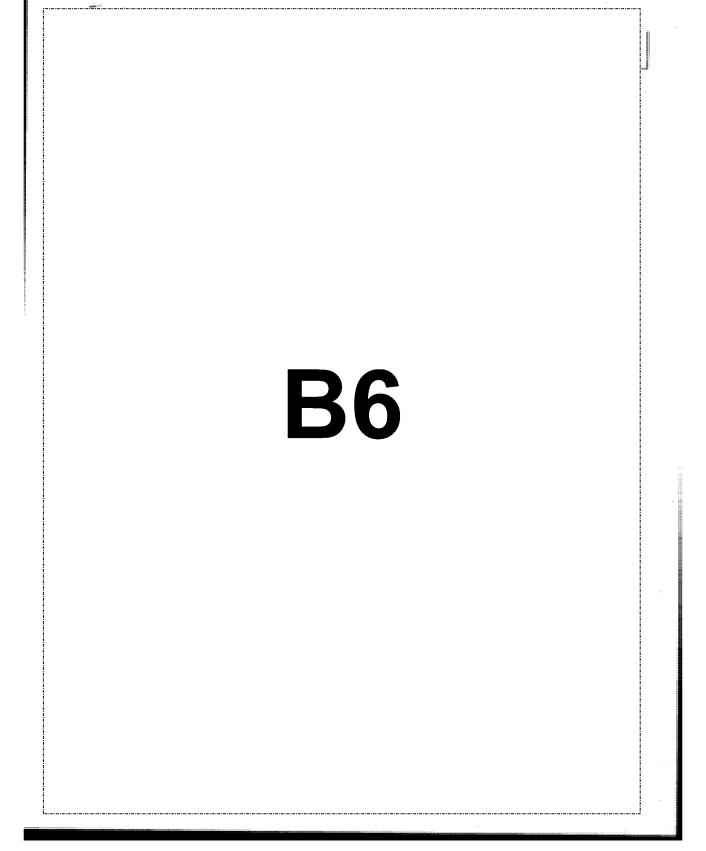


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Client:	D6
Patient:	ВО

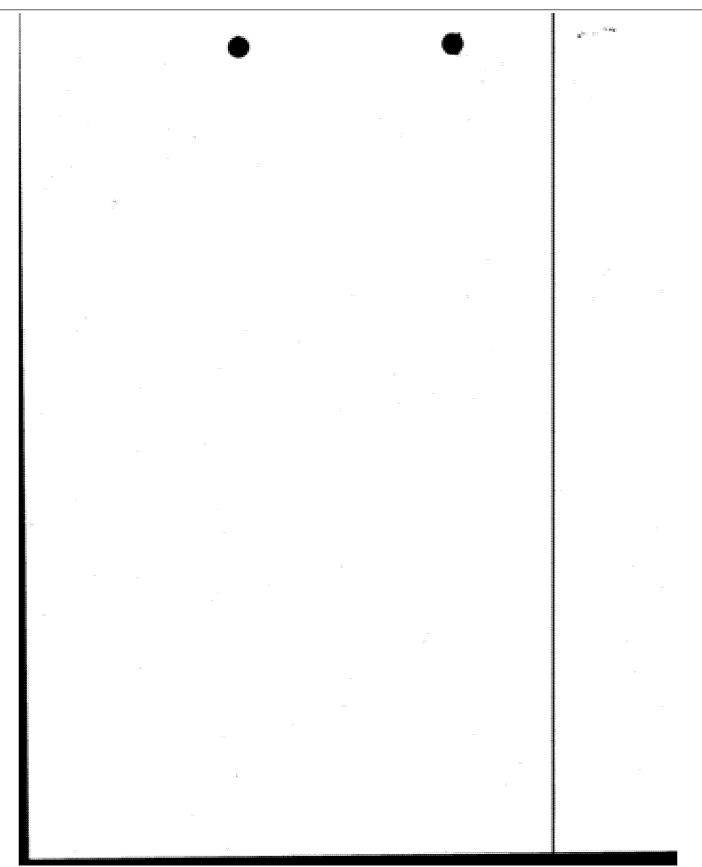


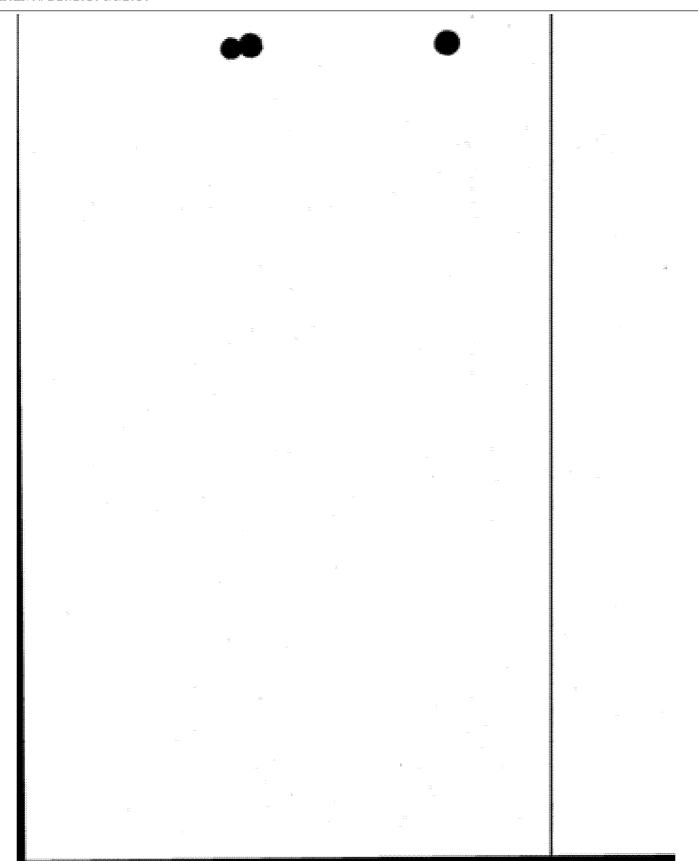




Client:	
Patient:	<u> </u>

**B6** 



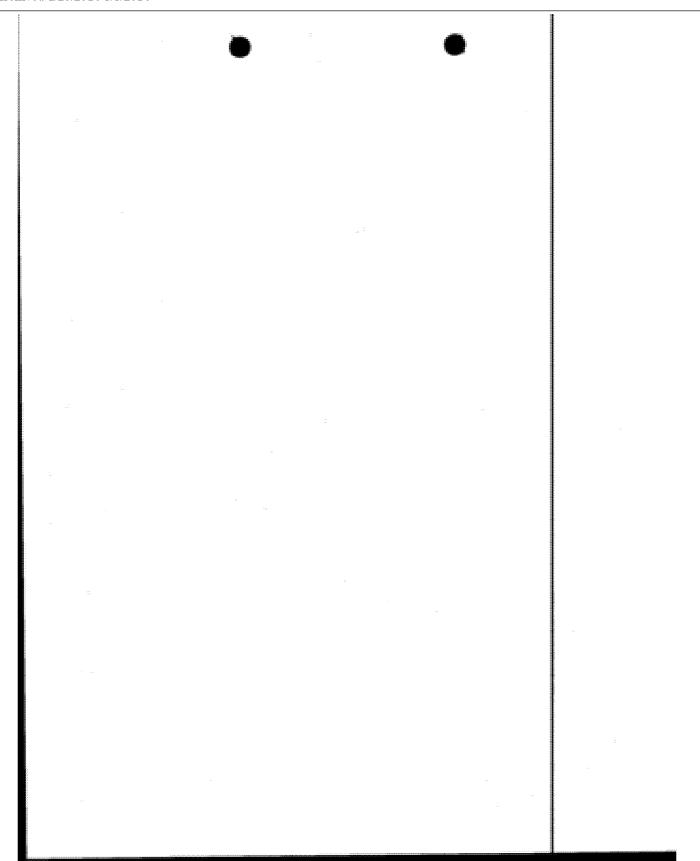


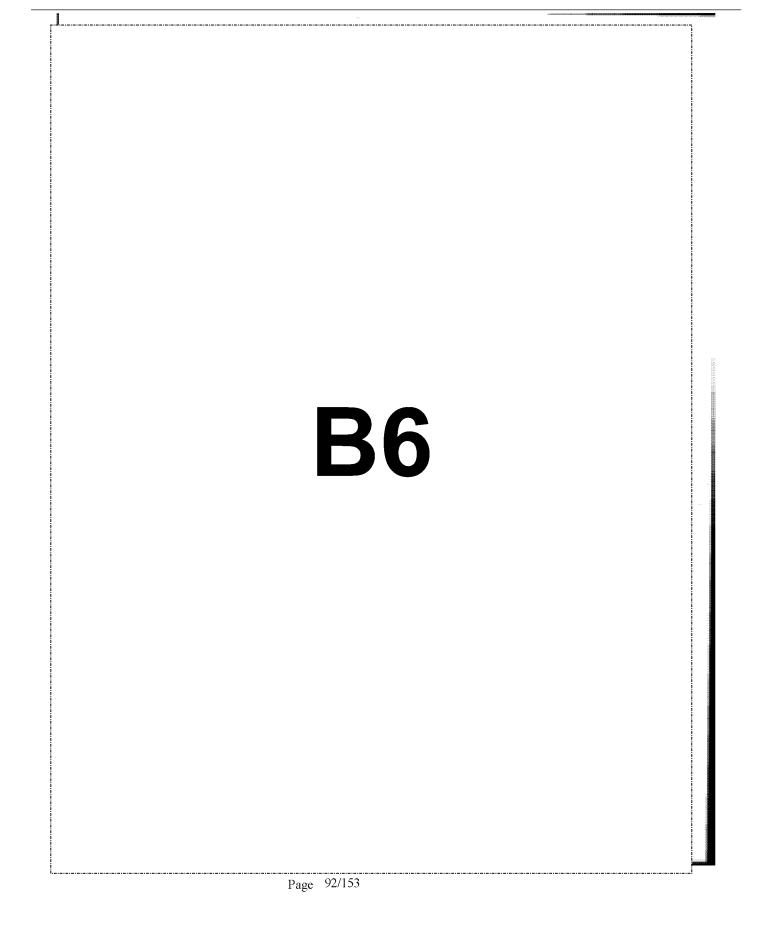
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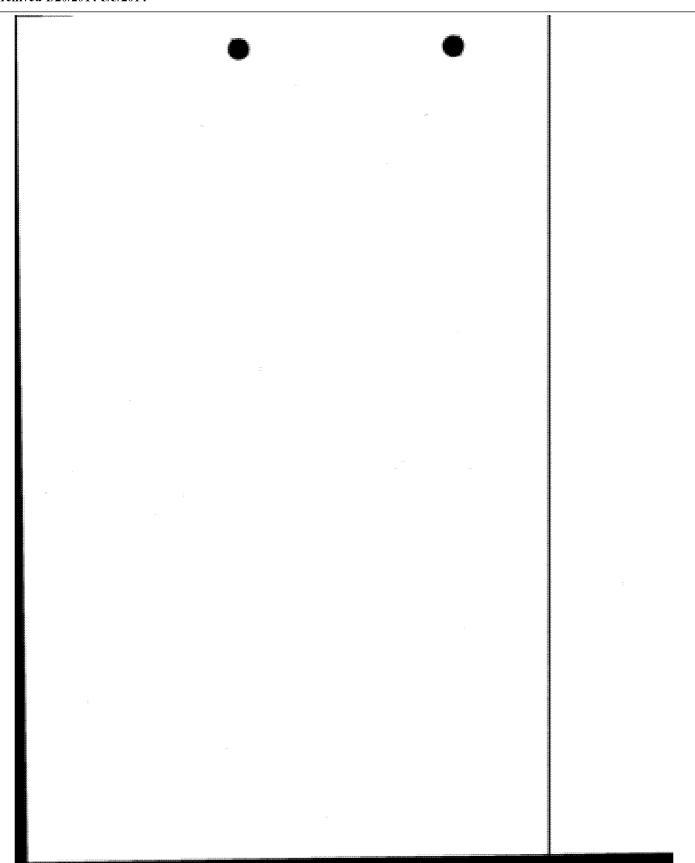
**B6** 

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Client:	R6
Patient:	B0

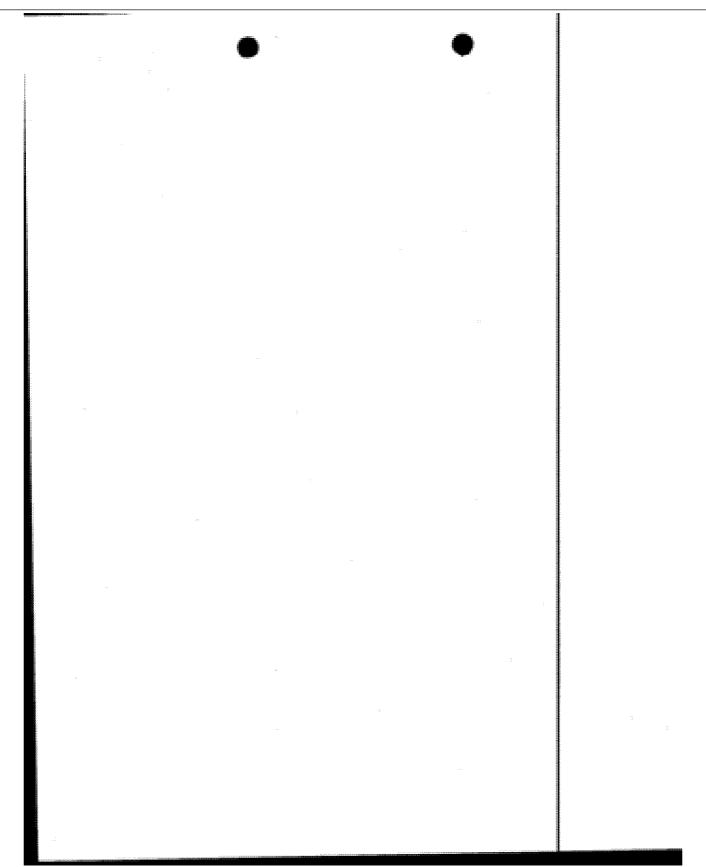




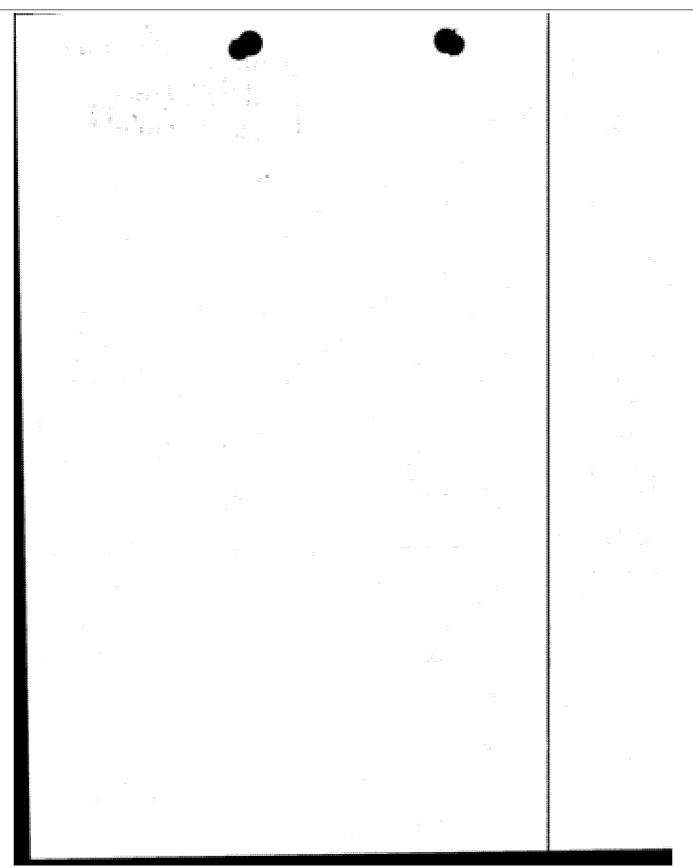




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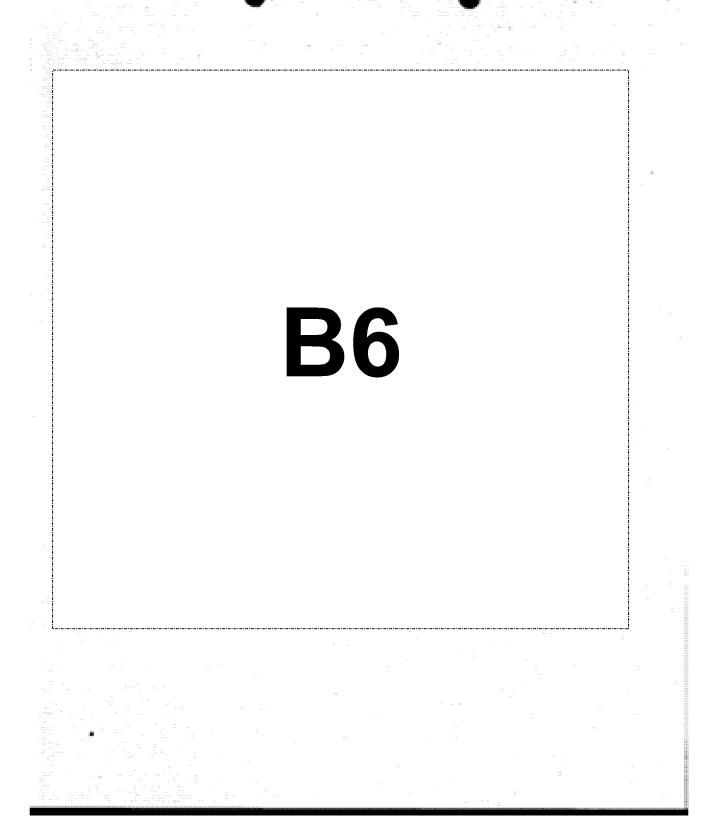


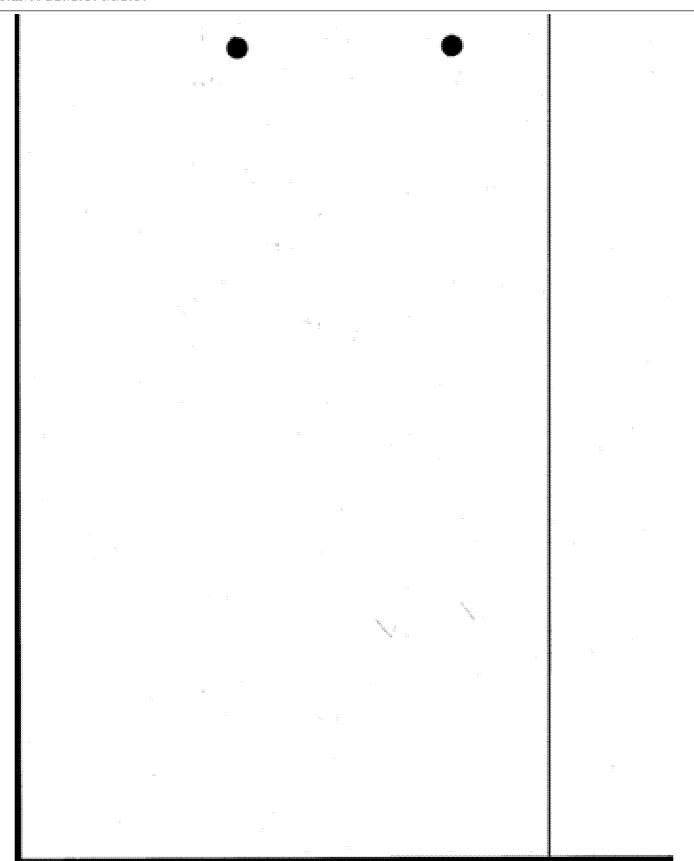
Client:	R6
Patient:	D0



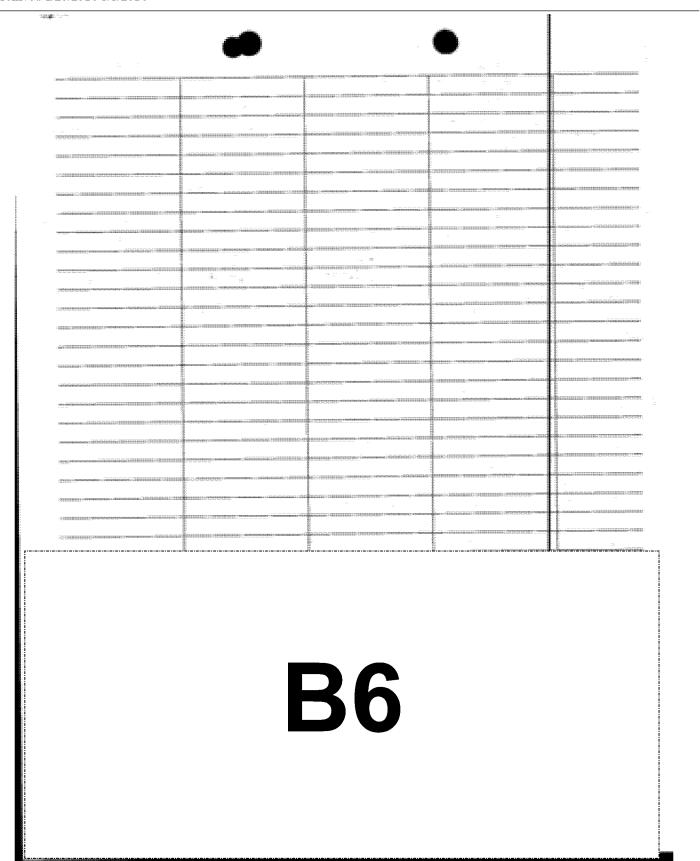
Page 97/153

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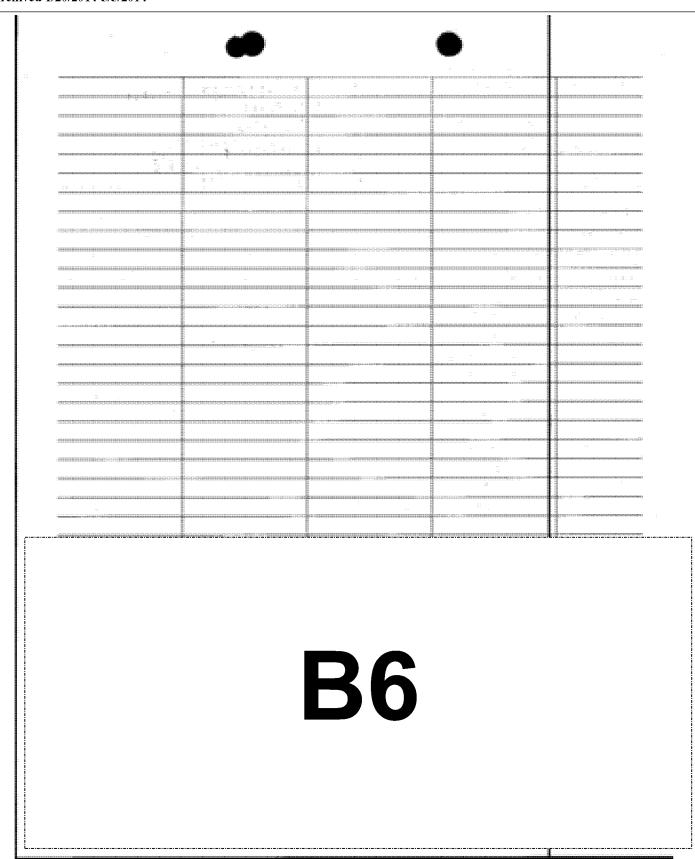




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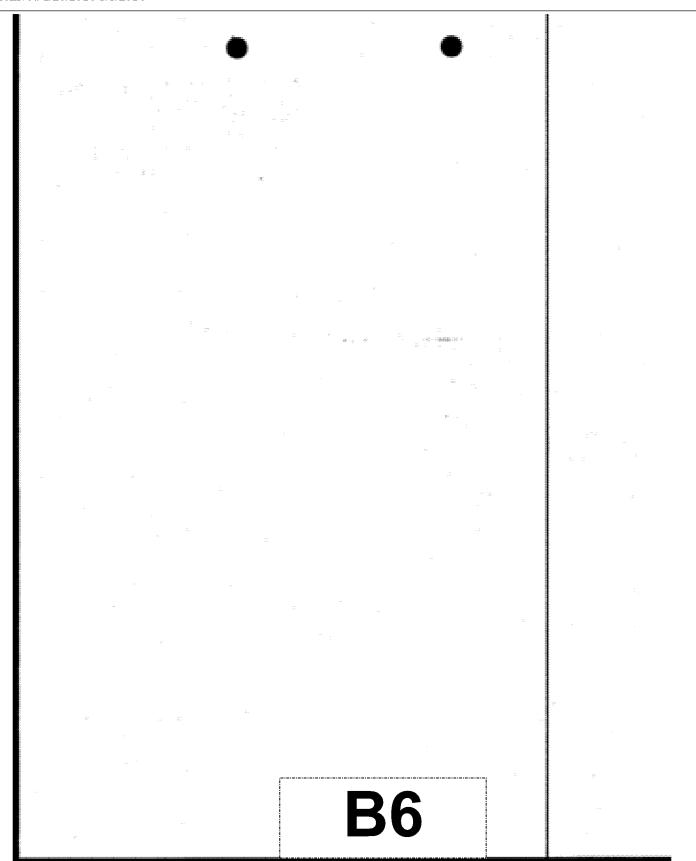


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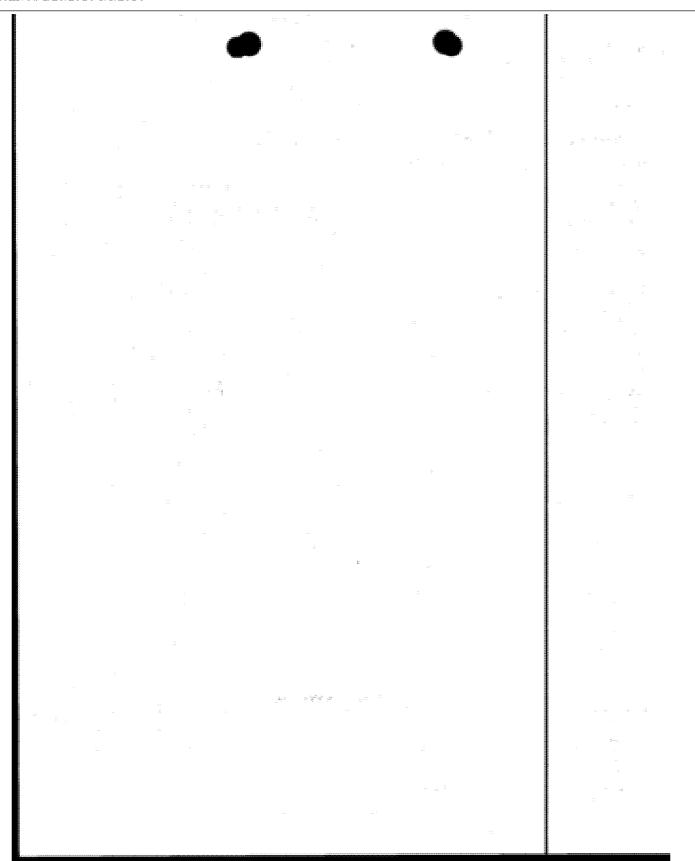
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Client:	
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**B6** 

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Inpatient notice

Lab Results **B6** Vet Clinic 5/7/14 - 2/11/15

Lab Results **B6** Vet Clinic 5/7/14 - 2/11/15 **B6**  Lab Results B6 Vet Clinic 5/7/14 - 2/11/15

**Cortisol 2/17/15** 

Salmonella SP 2/20/15

Client: Patient:

**B6** 

Administrative Adjustment Form **B6 B6** 

Patient: Administrative Adjustment Form B6 **B6**  Lab Image-IDEXX-CardioPet proBNP, 9/29/2016



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**B6** Request for Diagnosis (DOS: 9/28/16)

Client: **B6** 

B6 Request for Diagnosis (DOS: B6

Lab Image: NT pro BNP - IDEXX - 12/21/2017

Client: **B6** 

Insurance B6 Request for Diagnosis (DOS: 12/21/17)

**B6** 

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Client: **B6** 

**B6** Insuranc Request for Diagnosis (DOS: 12/21/17) **B6** 

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Client: Patient: B6

**B6** Anesthesia Record and checklist **B6** 

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Anesthesia Record and checklist B6

**B6** 

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IDEXX BNP - 5/7/2018

**B6** 

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**IDEXX BNP - 12/11/2018** 

**B6** 

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Lab Results; Gastrointestinal Lab, Texas A&M 12/11/18

# Diet history 12/11/18

1	B6	Owner's farm	B6		Todays same.	15/11/11
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## Vitals Results

[	8:33:03 PM	Appropriate treatments completed	
	8.22.04 DM	prior to transfer	
	8:33:04 PM	Cage card transferred to new ward, scanned to new cage	
	8:33:05 PM	Cage set up in wards (note which ward)	
	8:33:06 PM	Fluids transferred to new ward	
	8:33:07 PM	Meds transferred to new ward	
	8:33:08 PM	ICU tech has rounded with ward tech prior to transfer	
	8:33:09 PM	Patient cleaned, catheters clean and patent	
	8:33:10 PM	Patient ID band is in place	
	8:42:20 PM	Quantify IV fluids (mls)	
	9:45:54 PM	Eliminations	
	10:58:29 PM	Respiratory Rate	
	11:21:35 PM	Heart Rate (/min)	
	1:00:02 AM	Quantify IV fluids (mls)	
	1:00:10 AM	Eliminations	
	5:30:18 AM	Quantify IV fluids (mls)	
	5:30:24 AM	Eliminations	<b>B6</b>
	6:18:24 AM	Respiratory Rate	DU
L	6:22:14 AM	Heart Rate (/min)	
	9:17:23 AM	Weight (kg)	
	9:17:30 AM	Eliminations	
	9:49:47 AM	Notes	
	11:11:25 AM	Respiratory Rate	
	11:11:35 AM	Notes	
	11:11:49 AM	Heart Rate (/min)	
	11:12:49 AM	Eliminations	
	11:55:50 AM	Eliminations	
	1:27:55 PM	Quantify IV fluids (mls)	
	1:28:14 PM	Eliminations	
	1:28:45 PM	Notes	
	2:54:51 PM	Eliminations	
	3:32:30 PM	Notes	
	3:35:23 PM	Respiratory Rate	
	3:35:46 PM	Heart Rate (/min)	
	3:57:16 PM	Eliminations	
	5:08:54 PM	Quantify IV fluids (mls)	
	5:09:04 PM	Notes	

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Client: Patient:

**B6** 

Vitals	Results
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	<u> </u>		!
	:09:22 PM	Eliminations	
	:11:58 PM	Amount eaten	
	:15:55 PM	Eliminations	
	32:14 PM	Eliminations	
	:01:22 PM	Heart Rate (/min)	
	:01:30 PM	Notes	
	:03:29 PM	Temperature (F)	
	:03:36 PM	Respiratory Rate	
	:34:44 PM	Nursing note	
	):32:21 PM	Eliminations	
	):32:32 PM	Notes	
	:35:19 PM	Quantify IV fluids (mls)	
	9:39:59 PM	Amount eaten	
	1:10:42 PM	Notes	
	1:10:42 FM 1:12:46 PM	Respiratory Rate	
	1:13:05 PM	Heart Rate (/min)	
	:07:37 AM	Quantify IV fluids (mls)	
	:08:57 AM	Eliminations	
	:11:21 AM	Eliminations	
DC	:13:02 AM	Amount eaten	Rh
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	:34:40 AM	Notes	
	:01:57 AM	Notes	
	:03:40 AM	Respiratory Rate	
	:04:50 AM	Heart Rate (/min)	
	:49:58 AM	Eliminations	
	1.09.52 ANA	W-:-14 A>	
	:08:53 AM	Weight (kg)	
	:09:02 AM	Eliminations Operatify IV floridg (mlg)	
	:09:46 AM	Quantify IV fluids (mls)	
	:13:10 AM	Amount eaten	
	:37:49 AM	Notes	
	:51:52 AM	Temperature (F)	
	:52:15 AM	Notes	
	:52:27 AM	Respiratory Rate	
	:52:34 AM	Heart Rate (/min)	
	:53:05 AM	Eliminations	
	17:23 AM	Notes	
	:18:45 AM	Quantify IV fluids (mls)	
[	j. 10.43 AWI	Quantity 1 v Huius (IIIIs)	<u>[</u>

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Vitals Results				
	9:26:43 AM	Weight (kg)		
	9:27:31 AM	Eliminations		
	9:31:32 AM	Amount eaten		
	10:51:45 AM	Eliminations		
	11:19:18 AM	Notes		
	11:21:18 AM	Heart Rate (/min)		
	11:21:26 AM	Respiratory Rate		
	12:02:10 PM	Eliminations		
	1:27:19 PM	Eliminations		
	1:28:17 PM	Quantify IV fluids (mls)		
	1:28:53 PM	Notes		
	1:32:35 PM	Amount eaten		
	1:50:51 PM	Nursing note		
	3:10:50 PM	Notes		
	3:24:37 PM	Heart Rate (/min)		
	3:24:43 PM	Respiratory Rate		
	3:54:26 PM	Eliminations		
<b>B6</b>	5:27:08 PM	Quantify IV fluids (mls)	<b>B6</b>	
	5:29:21 PM	Notes		
	5:31:27 PM	Amount eaten		
	7:43:47 PM	Amount eaten		
	7:49:25 PM	Temperature (F)		
	7:49:34 PM	Notes		
	7:53:14 PM	Respiratory Rate		
	7:53:21 PM	Heart Rate (/min)		
	7:53:48 PM	Eliminations		
	7:54:21 PM	Quantify IV fluids (mls)		
	9:32:20 PM	Notes		
	10:14:06 PM	Amount eaten		
	10:22:46 PM	EKG: Note rate and rythm.		
	10:54:24 PM	Respiratory Rate		
	11:07:06 PM	Eliminations		
	11:07:22 PM	Notes		
	11:07:34 PM	Heart Rate (/min)		
	11:10:14 PM	Quantify IV fluids (mls)		
	11:26:54 PM	Eliminations		

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Client: **B6** 

1:31.45 AM	Vitals	s Results		
1.51:41 AM Cage or Walk notes 3.48:25 AM Weight (kg) 3.48:47 AM Notes 3.50:37 AM Quantify IV fluids (mls) 3.50:48 AM Eliminations 3.56:41 AM Respiratory Rate 3.57:01 AM Heart Rate (min) 5.08:13 AM Notes 5.09:25 AM Amount eaten 7:27:56 AM Notes 7:33:58 AM Eliminations 7:34:32 AM Weight (kg) 7:50:20 AM Heart Rate (fmin) 7:50:28 AM Respiratory Rate 7:50:38 AM Temperature (F) 9:02.38 AM Notes 9:10:44 AM Amount eaten 9:44:23 AM Heart Rate (fmin) 11:14:32 AM Heart Rate (fmin) 11:14:32 AM Heart Rate (fmin) 12:51:28 PM Temperature (F) 12:51:29 PM Respiratory Rate 12:51:20 PM Respiratory Rate 12:51:20 PM Heart Rate (fmin) 12:51:28 PM Temperature (F) 12:51:29 PM Respiratory Rate 12:51:20 PM Respiratory Rate 12:51:20 PM Heart Rate (fmin) 12:51:22 PM Temperature (F) 12:51:29 PM Respiratory Rate 8:21:21 PM Heart Rate (fmin) 10:55:57 PM Respiratory Rate 8:21:24 PM Weight (kg) 1:05:55 PM Heart Rate (fmin) 1:05:56 PM Temperature (F) 1:05:57 PM Respiratory Rate 8:21:24 PM Weight (kg) 1:05:57 PM Respiratory Rate 8:21:25 PM Respiratory Rate 8:21:25 PM Respiratory Rate 8:21:25 PM Respiratory Rate 8:21:25 PM Respiratory Rate 8:21:25 PM Respiratory Rate 8:52:06 AM Respiratory Rate 8:52:13 AM Heart Rate (fmin)		1:31:45 AM	Notes	
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8:52:13 AM Heart Rate (/min)		i		
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8:59:16 AM Weight (kg)		i		
		8:59:16 AM	Weight (kg)	

Page 137/153

Client: Patient: **B6** 

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	_		
	11:19:14 AM	Heart Rate (/min)	
	11:19:15 AM	Temperature (F)	
	11:19:16 AM	Respiratory Rate	
	7 9:59:14 AM	Weight (kg)	
	1:10:48 AM	Weight (kg)	
	7:54:11 AM	Weight (kg)	
	7:57:36 AM	Interest in water	
	7:57:44 AM	Eliminations	
	8:19:19 AM	Temperature (F)	
	8:19:20 AM	Heart Rate (/min)	
	8:19:21 AM	Respiratory Rate	
	10:57:38 AM	Notes	
	11:12:14 AM	Cryoprecipitate (text)	
	11:12:15 AM	Donor ID (text)	
	11:12:16 AM	Dose and Time Frame Confirmed (boolean)	
	11:12:17 AM	Transfusion Form (boolean)	
	11:15:18 AM	Temperature (F)	
	11:15:25 AM	Heart Rate (/min)	
	11:15:31 AM	Respiratory Rate	DG
<b>B6</b>	11:15:39 AM	Mucous membranes	<b>B6</b>
	11:18:21 AM	Interest in water	
	12:13:20 PM	Temperature (F)	
	12:13:21 PM	Heart Rate (/min)	
	12:13:22 PM	Respiratory Rate	
	12:13:33 PM	Mucous membranes	
	1:58:37 PM	Cryoprecipitate (text)	
	1:58:37 PM	Cryoprecipitate (text)	
	1:58:38 PM	Donor ID (text)	
	1:58:38 PM	Donor ID (text)	
	3:19:48 PM	Temperature (F)	
	3:19:49 PM	Heart Rate (/min)	
! ! ! !	3:19:50 PM	Respiratory Rate	
	4:39:28 PM	Anesthesia Notes	
	5:21:35 PM	Catheter Assessment	
! ! ! !	5:35:40 PM	Bandage check	
<u>:</u>	5:36:31 PM	Eliminations	
	5:37:03 PM	Pain assessment	
	5:56:06 PM	Temperature (F)	
	6:50:07 PM	Temperature (F)	
·	<b>-:</b>		·

Page 138/153

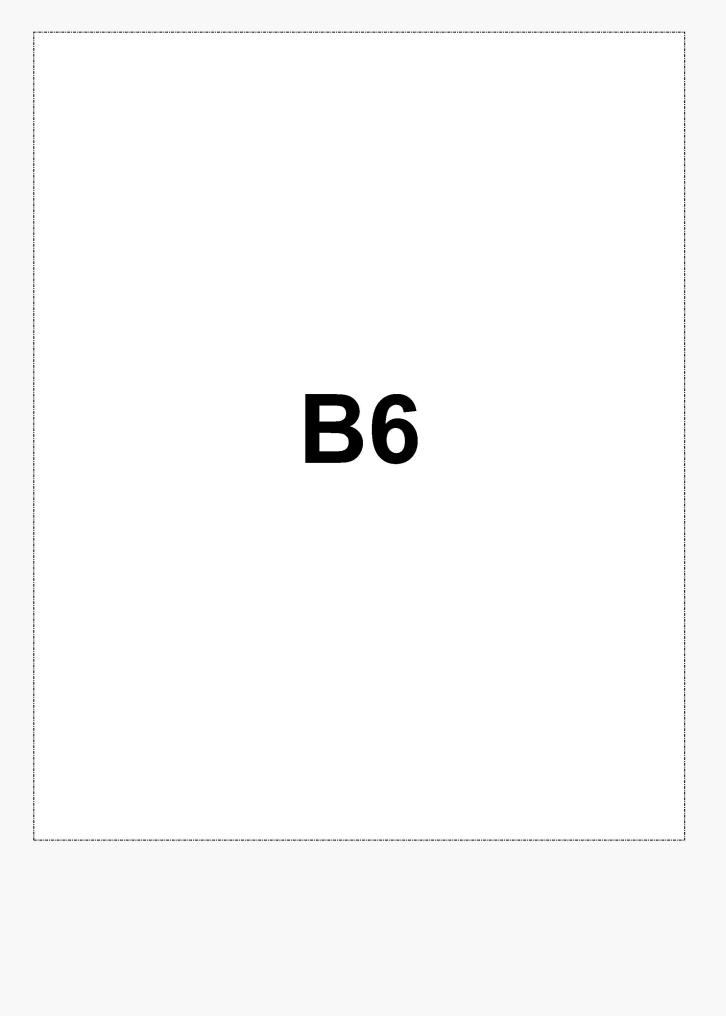
Vitals Results				
7:13:54 PM	Weight (kg)			
7:14:04 PM	Temperature (F)			
7:14:05 PM	Heart Rate (/min)			
7:14:06 PM	Respiratory Rate			
7:14:59 PM	Catheter Assessment			
7:15:17 PM	Amount eaten			
7:50:50 PM	Temperature (F)			
9:35:37 PM	Bandage check			
9:35:52 PM	Temperature (F)			
9: <b>3</b> 6:0 <b>8</b> PM	Pain assessment			
9:37:01 PM	Eliminations			
9:41:26 PM	Catheter Assessment			
11:04:16 PM	Temperature (F)			
11:04:17 PM	Heart Rate (/min)			
11:04:18 PM	Respiratory Rate			
11:48:31 PM	Eliminations			
1:40:39 AM	Amount eaten			
1:56:11 AM	Bandage check	<b>B6</b>		
<b>B6</b> 1:56:35 AM	Catheter Assessment	BO		
1:56:46 AM	Temperature (F)			
1:57:42 AM	Pain assessment			
3:20:49 AM	Temperature (F)			
3:20:50 AM	Heart Rate (/min)			
3:20:51 AM	Respiratory Rate			
3:27:51 AM	Eliminations			
5:13:59 AM	Catheter Assessment			
5:14:24 AM	Bandage check			
5:14:52 AM	Pain assessment			
7:20:19 AM	Eliminations			
7:56:20 AM	Temperature (F)			
7:56:21 AM	Heart Rate (/min)			
7:56:22 AM	Respiratory Rate			
8:02:40 AM	Catheter Assessment			
8:02:57 AM	Amount eaten			
8:48:54 AM	Bandage check			
9:03:16 AM	Pain assessment			
9:03:44 AM	Bandage check			
9:04:01 AM	Catheter Assessment			

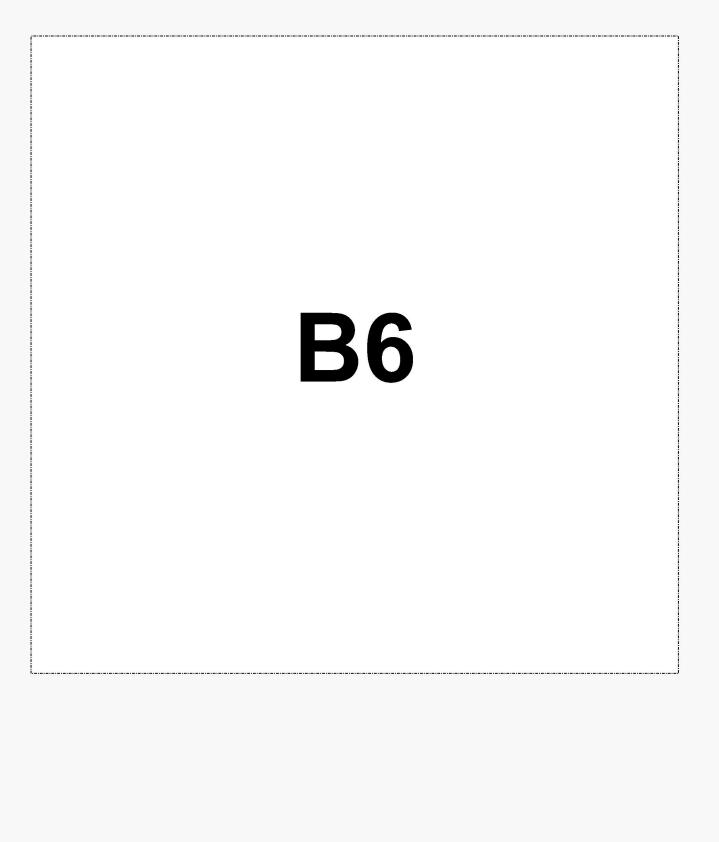
Page 139/153

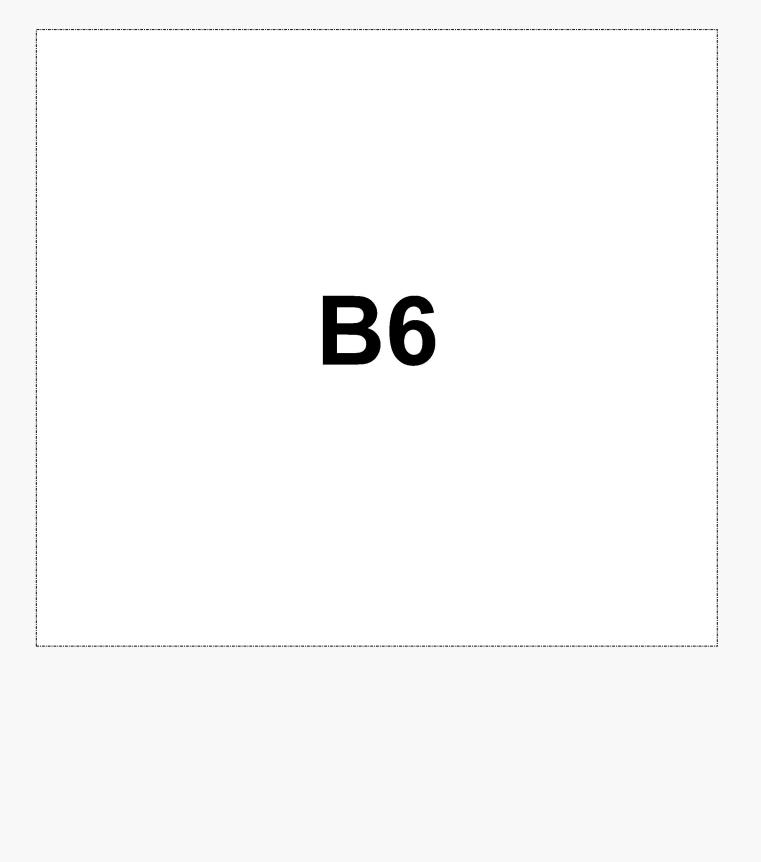
Client:	D6
Patient	ВО

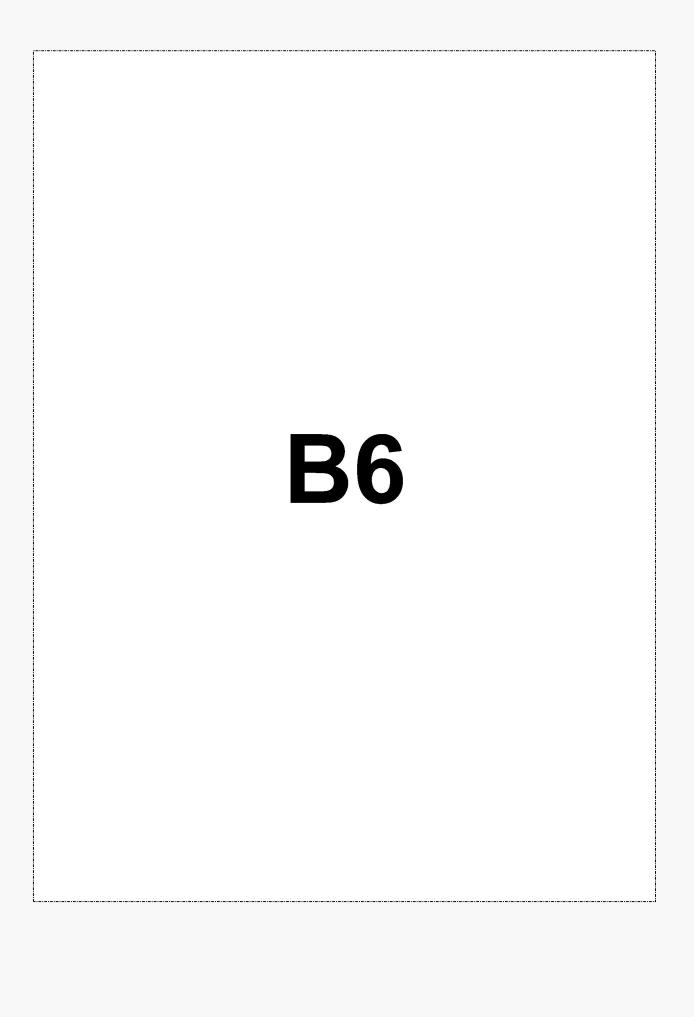
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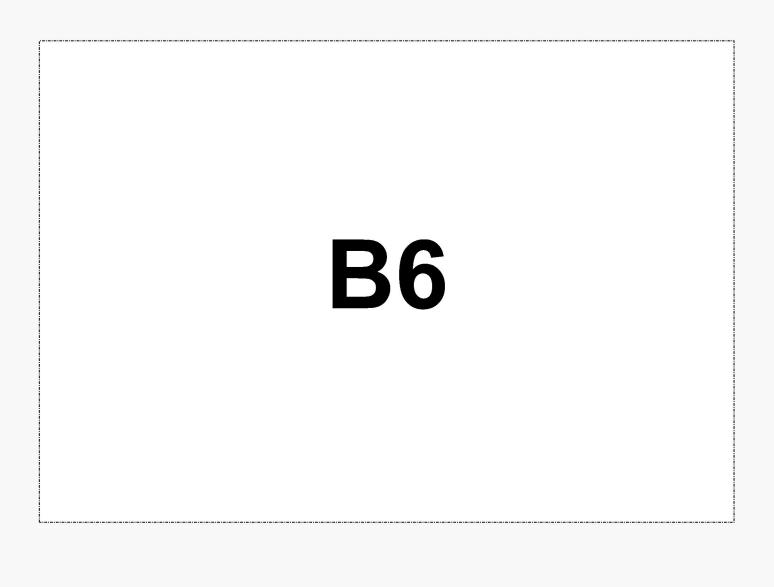
i	- <sub>1</sub>		! <u>-</u>
	9:13:32 AM	Weight (kg)	
	9:13:40 AM	Eliminations	
	10:07:21 AM	Nursing note	
	11:21:19 AM	Eliminations	
	11:25:23 AM	Temperature (F)	
	11:25:24 AM	Heart Rate (/min)	DC
<b>B6</b>	11:25:25 AM	Respiratory Rate	<b>B6</b>
	2:32:56 PM	Heart Rate (/min)	
	2:32:57 PM	Respiratory Rate	
	2:32:58 PM	Temperature (F)	
	2:32:59 PM	Weight (kg)	
	0:02:36 AM		
	3 10:40:25 AM	Weight (kg)	
L			t:

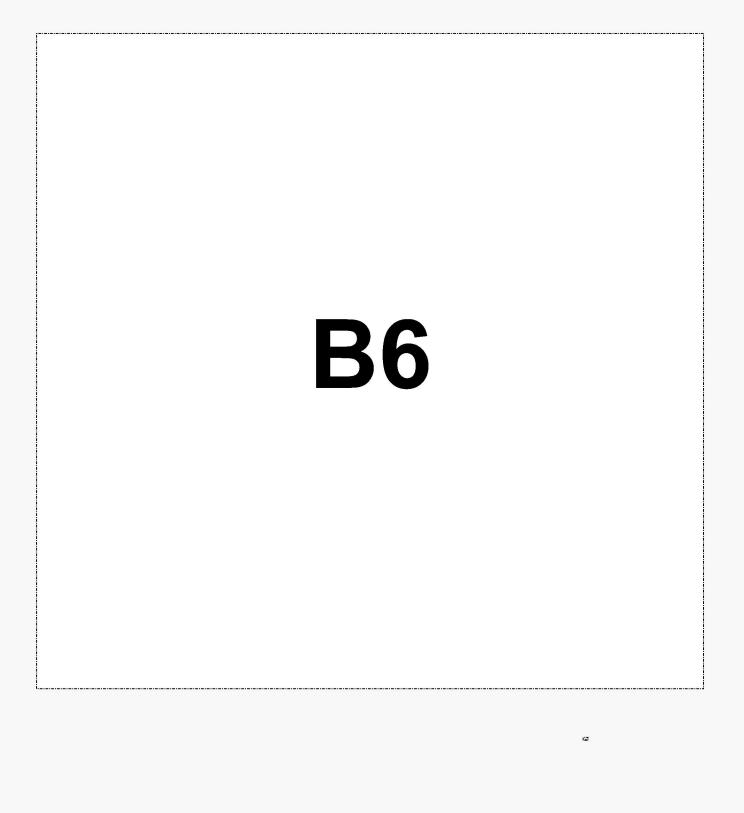


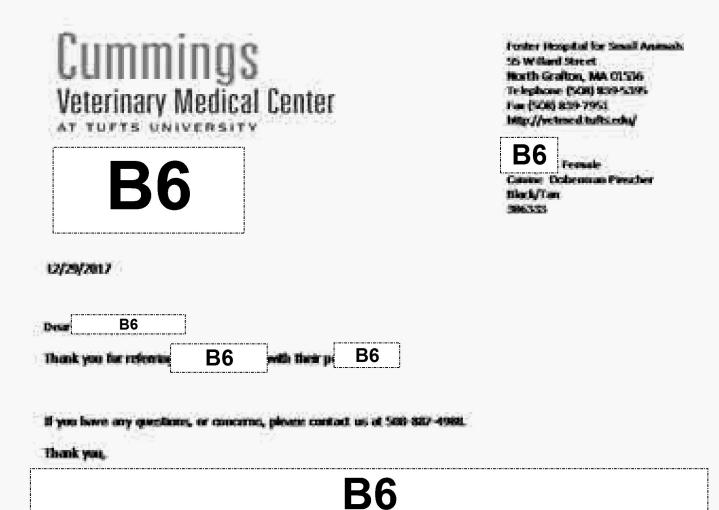














**B6** 

**B6** 

Desir De B6

Thank you for referring

B6 with the per

**B6** 

B6 presented to Tults Chief Surgery Service for a lapanoscopic spay. We tested her for vWF and it was 33% so we allowed any agreement cryoperceptate and did well and is being discharged today on B6

If you have any questions, or concerns, please contact us at 588-887-4988.

Thonk you.

**B6** 

(SAM Retating Intern) A DACMS 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/

B6

estade .

Cause Cobennas Freicher Block/Ton

206333



**B6** 

Forter Hospital for Small Animals 25 Willard Street Horth Grafton, MA 01516 Te lephone (SGR) 839-5395 For (SGR) 839-7951 http://vetmed.tufts.edu/

B6
counte (Spaged)
Counte Ochemica Piesche
Block/Ton
396333

B6
B6
Byom have any questions or concerns, places contact as at \$48.807-1988.
Thank you,
B6



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

B6 Counce Ordentian Prescher Block/Text 396323

4/24/2018

B6
B6 shockwerk is attached for your records.
If you have any questions or concenes, please contact us at 500-007-4988.
Thank you.
B6



**B6** 

5/8/2018

Thank you for reference B6 with their pet (B6

If you have any questions, or concerns, please contact us at 500-882-4988.

Thank you,

John Righ DVM, DACVIM (Cardidlogy), BACKECC

Forter Hospital for Small Animals SS Willard Street Horth Grafton, MA 01536 Telephone (SOR) 839-5395 For (SOR) 839-7951 Hitp://wetmed.tufts.edu/

**B6** 

Female (Spaged)

Covine Cobention Prescher Black/Ton



Forter Hospital for Small Assessits
SS Willard Street
Horth Grafton, MA 01516
Telephone (SGR) 839-5395
For (SGR) 839-7951
http://retmed.tufts.edu/

B6
Feorale (Spayed)
Cataline Dobermon Prescher
Black/Tan
596333

6/8/2018

Desar	В6				
Thank you	for referris	В6	th their pe	В6	
Il you law	e any questions	, er concern	c, pleans contact	us at 500	887-4988
thank you					
		B6			



Forter Hospital for Small Animals SS Willard Street Horth Grafton, MA 01536 Telephone (SCR) 839-5395 For (SCR) 839-7951 http://wetmed.tufts.edu/

B6 Female (Spayed) Course Ochemics Precher Black/Ton 396323

12/19/2018				
Desar B6	]			
Thank you for referris	В6	with their per	В6	
If you have any question	s, or concar	ns, please contact	us at 500 882-4	948
Thank you,				
	B6			

From:	PFR Event <pfreventcreation@fda.hhs.gov></pfreventcreation@fda.hhs.gov>	
То:	Cleary, Michael *; HQ Pet Food Report Notification B6	
Sent:	1/14/2019 10:08:36 PM	
Subject:	Taste of the Wild Sierra Mountain dry: Lisa Freeman - EON-376361	
Δttachments:	2061171-report pdf: 2061171-attachments zin	

A PFR Report has been received and PFR Event [EON-376361] has been created in the EON System.

A "PDF" report by name "2061171-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 "2061171-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-376361

ICSR #: 2061171

**EON Title:** PFR Event created for Taste of the Wild Sierra Mountain dry; 2061171

AE Date	01/02/2019	Number Fed/Exposed	7
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	Retriever - Golden		
Age	3 Years		
District Involved	PFR-New England DO		

### **Product information**

**Individual Case Safety Report Number: 2061171** 

**Product Group:** Pet Food

**Product Name:** Taste of the Wild Sierra Mountain dry

**Description:** Eating Taste of the Wild Sierra Mountain since June 2018 (Acana Heritage Poultry before that). This diet was fed to multiple dogs - have not screened other dogs yet so unknown whether they are also affected. Echo showed reduced contractility and mild left atrial enlargement. BNP and troponin mildly elevated, troponin = B6 Taurine WNL B6 Changing to Pro Plan Sensitive Skin/Stomach dry 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: 7 Number of Animals Reacted With Product: 1

Product Name	Lot Number or ID	Best By Date
Taste of the Wild Sierra Mountain 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-376361

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

 $\underline{https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none\&e=0\&issueType=12\&issueId=393370$ 

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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.

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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.

# **Foster Hospital for Small Animals**

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

		All Medical Records	
Client:	DC	Patient: <b>B6</b>	
Address:	B0	Breed: Golden Retriever	Species: Canine
		DOB: <b>B6</b>	Sex: Female
	Home Phone		
	Work Phone:		
	Cell Phone:		
n e ·	T. C		
Keierring	Information		
		<b>B6</b>	
Client:	<b>D</b>		
Patient:	<b>B6</b>		
Initial Com	nlaint•		
Scanned Red			
T 16	-1. to a		
Initial Com	B6 - DCM study		
i!	<b>50</b>		
	, <del></del>		
SOAP Text	Jan 2 2019 11:10AM -	B6	
Initial Com			
Drop Off La	b Sample		
Disposition/	Recommendations		

Cumm	ings	
Veterinary	Medical	Cente

## AT TUFTS UNIVERSITY

Client:	B6
Veterinaria	n:
Patient ID:	B6
Visit ID:	

# Lab Results Report

Foster Hospital fo	or Small Animals
--------------------	------------------

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

Patient:	B6
Species:	Canine
Breed:	Golden Retriever
Sex:	Female
Age:	<b>B6</b> Years Old

			Acc	cession ID:		
Test	Results Reference Range Units					
•		3/23		B6		
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Printed Monday, January 14, 2019

Client: **B6** 

RDVM B6 records

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ed	Golden Retriev Female	er .				
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exed	<u>B6</u>					
0	Y					
3-Dec	2018 at 09:16	am				
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23021	\	Y!				
		options for cardiology consult options for cardiology consult		els (feeding trials vs for	mulation to meet as	afco guidelines; all stage diets vs
antified ontact	o that I have hea nfo and they will	ed confirmation from Dr. Freer	man at Tufts that Leah qua t up a visit. Her other dog	s may also qualify for s		ision to send Tufts Nutrition office he results. Keept 86 (and her off
states	B6 (and sever	ral of her other dogs) had norm	mal echos when they were	approx 1 1/2 yo, as sh		before considering breeding. O to a fed in past year or so, including
		t of any people foods she feed			and the next arm that	and an power years on not missionly
GF						
7-Dec	2018 at 02:49	pm				
55041	В	6				
lotes lee lab	vork results: CB	C wnl; Chem wnl; HWT neg; p	proBNP elevated at 1,390.			
ee lab	vork results: CB o to n/o DCM	C wni; Chem wni; HWT neg; p	proBNP elevated at 1,390.			
Rec ech PCTC- o or outpo	o to no DCM lisc results; o wo itient echo (ocea	uld like to pursue echo- can d	to here with IM specialist (r slother cardiologist. O wou	ild like to go to tufts if n	ot too pricey- will en	o delay until next semester, can ref squire about consult/echo fee, will a
Rec each PCTC- o pr outpoinquire GF	o to r/o DCM list results; o wo stient echo (ocea about contacts fo	uid like to pursue echo- can d in state: westboro voa) or tufts or golden retriever study menti	to here with IM specialist (r slother cardiologist. O wou	ild like to go to tufts if n	ot too pricey- will en	
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History/Owners Concerns: Rechecking labwork as rec'd by RKS this summer. Doing well. Only concern is that she eats things she shouldn't-chew on carpet, was eating soil with all the other dogs recently (rabbit droppings?), coprophagic. Wears a basket muzzle to prevent ingestion. last heat cycle Sept? (a not sure) Would like to breed in future. 7 dogs at home. No further travel to Florida'back planned.

Current Meds & Supplements:one

Client:	D.C
Patient:	DØ

	,	
RDVM	B6	records

Flea & Tick Prevention: k-9 adv.	antix monthly year round			
Heartworm Prevention: Ivermed	tin monthly year round			
Division Annual Division Divis				
Physical Exam: Attitude: Bi Hydration Status: normal	if Abnormal: %			
Mouth:	Cardiovascular:	Musculoskeletal:		
_x Normal:	_x_ Normal:NMA MSP reg	_x_Normat		
Abnormal: Did Not Examine:	Abnormal: Did Not Examine:	Abnormal: Did Not Examine:		
Freeze	Benedications	Interconnects		
Eyes: _x_ Normal:	Respiratory: _x_Normal:	Integument: _x_Normat:		
Abnormat: Did Not Examine:	Abnormal: Did Not Examine:	Abnormal: Did Not Examine:		
Ears: _x_Normat:	Abdomen: _x_Normal:	Neurologic: _x_Normal:		
Abnormal: Did Not Examine:	_ Abnormal: _ Did Not Examine:	Abnormal:     Did Not Examine:		
Landardon de la				
Nose/Throat: xNormal:	Urogenital: x Normal: intact, no dic, no mgt	Lymph Nodes: _x_ Nomat:		
Abnormat: Did Not Examine:	Abnormat: Did Not Examine:	Abnormat: Did Not Examine:		
Bandell Control of the Control of th				
Other: verified microchip Exam Notes:				
DDx::3 yo FI Eng GRet- app healt	hy, grain free diet; hx labwork abnormalities improve	d in 8/18- but low K and pit values an	e being rechecked today	/
Recommendations/Plan		B6		
		) C		
		5D		
	-			
Meds Dispensed: none				
Tect B6				
Veterinaria: B6 DVM				
Qty Product / Service		Provider	Staff	Date
1.00 Bio Hazard Waste Dispos	al Fee			04-Dec 2018
		W 4.0	6	10:12 AM 04-Dec 2018
1.00 Canine Young w/ Cardiop	et proBNP (29249999) Standard CBC, Chem 10, HV	TAG .	O	10:12 AM
1.00 Physical Exam / Office Vi	sit - Brief/Recheck			04-Dec 2018
		L		10:13 AM
04-Dec 2018 at 08:51 am				
#54940 - B6				
Notes				
	icuss blood work performed in August and going for	ward		
04 San 2019				
04-Sep 2018 at 01:14 pm				
#52707 B6				
Notes				
Date and Time: 1:10 pm 9/4/18				
		76		
	t	36		
L				

	*	
Indials B6		
04-Sep 2018 at 12:05 pm		
#52697 - B6		
Notes Date and Time: 12:02 pm 9/4/18		
Client Communication Notes:	B6	
Initials: B6		
	- F 10	
20-Aug 2018 at 09:51 am #52446	*	
Notes		
Date and Time: 8/20/18 9:53 am  Client Communication Notes	B6	
CHES. CONTRIBUCION PONES	B6	
initials B6		
14-Aug 2018 at 11:07 am #52374 B6		
Notes		
B6	, a	
Examination Report Canine		
Presenting For: PE, 4DX, update vaccines		······
	<b>B6</b>	
	DU	
Current Meds & Supplements:		

Page 6/23

	ention: Advantix		1				
Heartworm Prev	rention: monthly in	vermectin product that ov	vner gets from i	Brazil (owner travels the	ere)		
Physical Exam:	Attitude: BAR	t					
Hydration Status	: Normal	if Abnormal:	%				
Mouth: _X_Normal: _Abnormal: _ Did Not Exam	nine:	Cardiovascular: _X_Normal: _Abnormal: _ Did Not Exami	ne:	Musculoskeli _X_ Normal: _Abnormal: _ Did Not Ex			
Eyes: _X_Normal: Abnormal: Did Not Exam	nine:	Respiratory: _X_Normal: _Abnormal: _Did Not Exami	ne:	Integument: _X_Normat _Abnormat _ Did Not Ex	amine:		
Ears: _X_Normal: _Abnormal: _ Did Not Exam	nine:	Abdomen: _X_Normal: _Abnormal: _Did Not Exami	ne:	Neurologic: _X_Normal:Abnormal:Did Not Ex	amine:		
Nose/Throat: _X_Normal: _Abnormal: _ Did Not Exam	sine:	Urogenital: _X_Normal: _Abnormal: _ Did Not Exami	ne:	Lymph Node:X_ Normal: Abnormal: Did Not Ex			
Other:							
Exam Notes:							
DDx:: intect, appe	ears healthy						
Recommendation	ns/Plan:		;	В6	; ;		
	В	6	Ī				
Meds Dispensed	b .		!				
Tech: B6 Veterinarian: B6	7						
	-						
Qty Product	/ Service				Provider	Staff	Date
1.00 Physical	Exam / Office Visit	- (Annual w/reminder)					14-Aug 2018 11:07 AM
(Include:	Vaccination (1 yr) s Fixed Fee: 3.00 to No: 9160313A	Exc Tax)				16	14-Aug 2018 11:07 AM
1,00 *DHAPP	vaccine/Duramune No: 9160313A	Max 5-Inv					14-Aug 2018 11:07 AM
		em 25, 4DX (25049999)					14-Aug 2018 11:07 AM
				i	L		

Ordered +	Updated	Status	Order		Source
04-Dec 2018 10.12 am	05-Dec 2018 10:42 am	Final	Canine Young w/ Cardiopet proBNP (29249999) Stand	lard CBC, Chem 10, HW AG	IDEXX Reference Laboratories
Final   Ac	cession #	B6 ]			♦ View in VetConnect PLUS
HEN	MATOLOGY				i
RBC					
Hematocrit					
Hemoglobi	n				
MCV					
MCH					
MCHC					
% Reticulo	cyte				
Reticulocyt	05				
Reticulocyt	e Hemoglobin				
WBC					
% Neutropi	hils				
% Lymphoi	cytes				
% Monocyt	es				
% Eosinopi	hits				
% Basophi	is				
Neutrophils					
Lymphocyt	es				
Monocytes				36	
Easinophile				3 n	
Basophils				<b>J</b> U	
Platelets					
СН	MISTRY				
Glucose					
IDEXX SDI	ΔA				
Creatinine					
BUN					
Potassium					
Total Protei	n				
Albumin					
Globulin					
	lobulin Ratio				
ALT C	ACCURATION CONTRACT				
ALP					
Hemolysis	Index				
Lipemia Inc					
	proBNP - Can	ine			

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Client: Patient: **B6** 

RDVM B6 records

B6

SEROLOGY
Hearlworm Antigen by ELISA

14-Aug 2018 1197 am 15-Aug 2018 64:11 am Final Canine Standard CBC, Chem 25, 4DX (25049999)

IDEXX Reference Laboratories

collapse result. A

Ordered *	Updated	Status	Order	Source
04-Dec 2018 10.12 am	05-Dec 2018 10:47 am		Canine Young w/ Cardiopet proBNP (29249999) Standard CBC, Chem 10, HW AG	iDEXX Reference Laboratories
14-Aug 2018 11:07 am	15-Aug 2018 04:11 am	Final	Canine Standard CBC, Chem 25, 4DX (25049999)	IDEXX Reference Laboratories
Final   Ac	cession #	36 )		♦ View in VetConnect PLUS
HEN	TATOLOGY			
RBC				
Hematocrit				į
Hemoglobir	n			
MCV				
мсн				
MCHC				
% Reticulor	cyte			
Reticulocyt				
Reticulocyt	e Hemoglobin			
WBC				
% Neutropt	hils		<b>B6</b>	
% Lymphod				
% Monocyt	les			
% Eosinopt	hils			
% Basophil	ls			
Neutrophils	i			
Lymphocyte	es			
Monocytes				
Eosinophils	1			
Basophils				
Platelets				
Platelet Co	mments		PLATELET CLUMPS SEEN ON SLIDE. PLATELET COUNT AND BLOOD FILM I DECREASED.  PLATELETS APPEAR SLIGHTLY DECREASED ON THE BLOOD FILM (188,800 ADEQUATE).  Slide reviewed for platelet estimate. For a full slide review, somphology, a slide evaluation add-on (code 2000) is available a AUTOMATED CBC  D SEE PLATELET COMMENT	PER MICROLITER TO , including cell
CHI	EMISTRY.			
Glucose				
IDEXX SDI	ма			
Creatinine			<b>B6</b>	
BUN				
BUN: Crea	tinine Ratio			
Phosphoru	s			
Calcium				
Canadan				i

Page 10/23

Client: Patient:

**B6** 

**RDVM** 

B6 records

CHEMISTRY

Potassium

Na: K Ratio

Chloride

TCO2 (Bicarbonate)

Anion Gap

Total Protein

Albumin

Globulin

Albumin: Globulin Ratio

ALT

AST

ALP

GGT

Bifirubin - Total

Bilirubin - Unconjugated

Bilirubin - Conjugated

Cholesteral

Creatine Kinase

Hemolysis Index

Lipemia Index

SEROLOGY

Heartworm Antigen

Ehrlichia canis / ewingii

Lyme (Borrelia burgdorferi)

Anaplasma phagocytophilum / platys

**B6** 

n K

C N

a BOTH SDMA AND CREATININE ARE WITHIN THE REFERENCE INTERVAL which indicates kidney function is likely good. Evaluate a complete urinalysis and confirm there is no other evidence of kidney disease.

b Index of N, 1+, 2+ exhibits no significant effect on chemistry values.

c Index of N, 1+, 2+ exhibits no significant effect on chemistry values.

**B6** 

Page 11/23

Client: Patient: **B6** 

RDVM B6 records

SEROLOGY

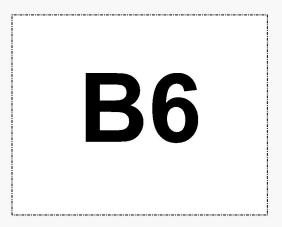
The American Heartworm Society recommends that a confirmatory test be run on all positive antigen test results prior to therapy, especially when a positive test result is unexpected. For a positive heartworm result on a 2Dx Plus, we recommend test code 723, Heartworm Antigen by ELISA as a confirmatory test.

The Ehrlichia canis/Ehrlichia ewingii antibody portion of the test uses peptides from each organism that are sensitive and specific for detecting exposure to these pathogers. If positive, submission of a fresh whole blood simple with an air-dried snear for a comprehensive CRC. test code 300, is recommended to identify abnormalities consistent with infection, primarily thrombocytopenia and anemia. PCR testing is complementary to serology and may be useful for confirmation of infection and for detection of infection in patients early in infection prior to seroconversion, especially in patients with clinical signs. Consider test code 2854, Shrlichia spp BealPCR Test, or test code 28701,Tick/Vector Comprehensive RealPCR Panel Add-on Corperence().

The tyme (Borrelia burgdorfers) antibody portion of the test detects tyme C6 antibodies. A positive tyme C6 antibody response indicates infection in dogs, rather than exposure or vaccination. This test may detect antibodies before clinical signs of joint disease. The quantitative assay for tyme C6 antibodies (tyme Quant C6 Antibody by ELTSA, test code 7246) is preferred for assessing response to treatment. A measurable decline in quantitative tyme C6 antibody levels within 6 months correlates with effective treatment, whereas the 4Dx Plus test may remain positive. For more information on tyme, please visit https://www.idexx.com/smallanimal/facts-about-lyme.html

The Anaplasmu phagocytophilum/Anaplasma platys antibody portion of the test uses a poptide that is sensitive and specific for detecting exposure to these organisms. If positive, submission of a fresh whole blood sample with an air-dried smear is recommended to identify abnormalities consistent with infection, primarily thrombocytopenia. PCR testing is complementary to serology and may be useful for confirmation of infection and for detection of infection in patients early in infection prior to seroconversion, especially in patients with clinical signs. Consider test code 2824, Anaplasma spp RealPCR Test, or test code 28701,Tick/Vector Comprehensive RealPCR Panel Add-on (preferred).

collapse result. A



B6

Patient Information:
B6
Canine, golden retriever, Female, , Gold Birthday:
Neutered: N

### Cardiovascular Examination Summary

tor	B6
L	3-Dec 2016

Dear B6						
B6 was evaluated at evaluation are found by	B6 Delow.	Cardiology on	8-Dec 2016 by	B6 in the	B6 The r	esults of that
Referred by:	В6					
Presenting Complain	nt: Congenital ca	rdiac OFA certifica	ation			
History: B6 has no	history of a murr	nur with no clinica	Il signs of cardiad	c disease or heart i	failure.	
Cardiovascular Phys lung sounds slightly in noted, femoral pulse i	creased but no c	rackles or wheez				

### Diagnostics Performed:

<u>Laboratory Findings</u>: Not recommended or performed at this evaluation.

### Imagino

Thoracic Radiographs: Not recommended or performed at this evaluation.

Echocardiogram: Not recommended or performed at this evaluation.

### Other:

Electrocardiogram: Not recommended or performed as part of this evaluation

### **RDVM**

In-Hospital Treatments: None
Diagnostics Pending: None

Cardiovascular Case Assessment: Normal cardiovascular physical exam

Medical Therapy/Treatment Recommendations: None

Diet Recommendations: No change in diet is recommended at this time.

Exercise Limitations: No specific limitations are recommended based on this evaluation. Please allow B6 to continue to set the pace and rest as needed.

Follow-up: No follow-up evaluation is indicated

If you have any questions or concerns, please feel free to call. Sincerely,

**B6** 

MEDICATIONS MAY HAVE PRICE CHANGES THAT ARE BEYOND OUR CONTROL. WE APOLOGIZE FOR ANY INCONVENIENCE.

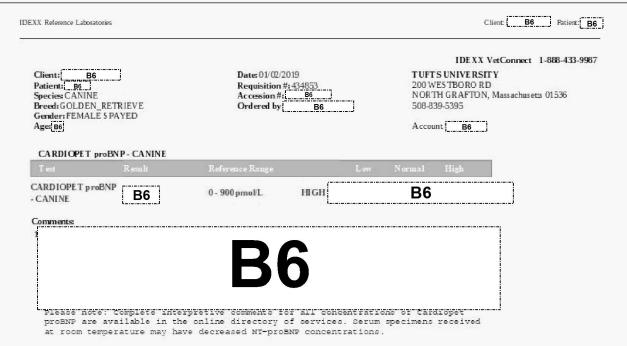
MEDICATION REFILLS (only for medications from B6 with a refill option):

\*Refill requests can be called into the Specialty Center during normal business hours: Mon-Fri 8am-5pm. We will not always be able to accomodate refill requests after hours or on weekends. You can pick the prescriptions up after hours only if you call before 5pm on Friday.

WEEKEND OR AFTER HOURS MEDICATION REFILL SWILL HAVE A \$20 FEE IF CALLED IN AFTER 5PM ON FRIDAY\*\*

IF YOU CALL BEFORE 5PM ON FRIDAY, WE WILL HAVE IT READY FOR PICK UP ANYTIME, EVEN AFTER HOURS AND WEEKENDS
Thank you for your understanding!

### IDEXX BNP - 1/2/2019



**B6** 

### **CBC/CHEM - 1/2/2019**

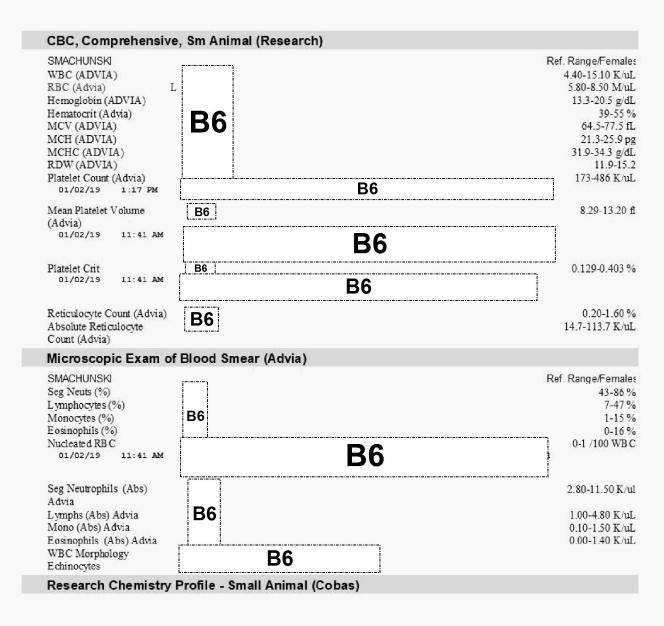


### Tufts Cummings School Of Veterinary Medicine

200 Westboro Road North Grafton, MA 01536

### DUPLICATE

Name/DOB: Patient ID: <b>B6</b>	Sex: F	Provider. Order Location:	B6	
Phone number:	Age: B6	Sample ID: 1901020129		
Collection Date: 1/2/2019 11:22 AM	Species: Canine			
Approval date: 1/2/2019 1:17 PM	Breed: Golden Retreiver			



Sample ID: 1901020129/1
This report continues... (Final)

Reviewedby:

**B6** 

### **CBC/CHEM - 1/2/2019**



### Tufts Cummings School Of Veterinary Medicine

200 Westboro Road North Grafton, MA 01536

### DUPLICATE

Name/DOB: B6	Sex: F	Provider. Order Location:	B6
Phone number:	Age: B6	Sample ID: 1901020129	
Collection Date: 1/2/2019 11:22 AM	Species: Canine	Commission of the second of th	
Approval date: 1/2/2019 1:17 PM	Breed: Golden Retreiver		

### Research Chemistry Profile - Small Animal (Cobas) (cont'd) DNOYES Ref. Range/Females Glucose 67-135 mg/dL Urea 8-30 mg/dL 0.6-2.0 mg/dL Creatinine Phosphorus 2.6-7.2 mg/dL 9.4-11.3 mg/dL 1.8-3.0 mEq/L Calcium 2 Magnesium 2+ Total Protein 5.5-7.8 g/dL Albumin 2.8-4.0 g/dL 2.3-4.2 g/dL Globulins A/G Ratio 0.7-1.6 140-150~mEq/LSodium Chloride 106-116 mEq/L Potassium 3.7-5.4 mEq/L 14-28 mEq/LtCO2(Bicarb) AGAP 8.0-19.0 NA/K 29-40 0.10-0.30 mg/dL Total Bilirubin Alkaline Phosphatase 12-127 U/L GGT 0-10 U/L ALT 14-86 U/L AST 9-54 U/L Creatine Kinase 22-422 U/L Cholesterol 82-355 mg/dL Triglycerides 30-338 mg/dl 409-1250 U/L Amylase Osmolality (calculated) 291-315 mmol/L

Sample ID: 1901020129/2

REPRINT: Orig. printing on 1/2/2019 (Final)

Reviewed by: \_\_\_\_\_ Page 2

### diet history 1/2/19

late: 1/2/19
r pet's appetite)
pers appente)
_
od item that your pet is eating. the exact same foo
n? Fed since
Jan 2018 Jan 2015
Aug 2015
Dec 2015
as Juno 20
11 Sept 2018
W JUW 201
1 TUNI 2017
4 Aug 7/17-K
b11 JUI 17/ Ma
Ul Feb 14018
de Tun 17- Ju
de JU115-JU
ny other Amount per day
n
tablets – 1 per day
t

Peana wild Atlantic tuly 14 - June 2015 Blue Buffalo Wilderness. Feb 14- July 2014

Home Food

Bread Cheese Steak Ham Barand

Squash Sweet Potato

Checken Guisards & Hearts

Tripe

Chicken Breast

Supplement

American Journey Wild Haskan Salmon Oil

NOV 2018 - present

Dewarmer Ivernectin for large Dogs

Page 19/23

### **UCDavis Taurine Level**

26344

26345

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 Contac	t: B6			<del></del> ;			
Clinic/Company Na	me: <u>Tufts Cumming</u> s	School of Vet. Med.	- Clinical Pathology	Laboratory			
Address: 200 West	oro Road, North Graft	ton MA 015369					
Email: Clinpath@t	ults.edu   Cachu	UPT @ th. FAS.	edu				
Telephone: _508-8	87-4669	Fax:	508-839-7936				
Billing Contact:	B6	Email:	B6				
Billing Contact Pho	ne: B6						
Patient Name:	B6	Specie	s: <u>Caninl</u>	<u> </u>			
Breed: Cold	ton		r's Nam				
	take of th	. 1.1					
	Plasma Whole E		Food Other				
		Z	_	<del></del>			
Test: Taurine	Complete Amino	Acids Other: _					
	ts (lab use only)						
Plasma: B6 Whole Blood: B6 Urine: Food: Food:							
Plasma (nMol/ml) Whole Blood (nMol/ml)							
Normal Range No known risk Normal Range No known risk							
for deficiency for deficiency							
Cat	Cat 80-120 >40 300-600 >200						
Dog	60-120	>40	200-350	>150			

<sup>\*</sup> 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.

	,
Client:	DC
Patient:	DO
i aticiit.	L

Vitals Results		
1/2/2019 10:17:06 AM	Weight (kg)	30.4000

### **Patient History**

<u> </u>		
12/13/2018 10:44 AM	Appointment	
12/27/2018 12:24 PM	Appointment	
01/02/2019 10:00 AM	UserForm	
01/02/2019 10:17 AM	Vitals	L) L) L
01/02/2019 10:21 AM	Treatment	<b>B6</b>
01/02/2019 11:06 AM	Purchase	
01/02/2019 11:06 AM	Purchase	
01/02/2019 11:42 AM	UserForm	
01/02/2019 11:45 AM	Purchase	
01/02/2019 11:45 AM	Purchase	
01/02/2019 12:14 PM	Email	

# 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/

<b>B6</b>	B6 B6 Female Canine Golden Retriever Cream 434853
1/10/2019	
Dear B6 Thank you for referring B6 with the	erne B6
If you have any questions, or concerns, please or	
Thank you,	
В6	

### Cummings Veterinary Medical Center

DO

**B6** 

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

Canine Golden Retriever Cream

В6

434853

B6 Female

<u> </u>	]				
1/10/2019					
Dear None					
Thank you for referring	В6	with their pe	B6	]	
If you have any questions	; or concerns,	please contact us	at 508-88	7-4988.	
Thank you,					
	36				

From:

Related PFR Event <pfrsignificantactivitycreation@fda.hhs.gov>

Carey, Lauren; Cleary, Michael \*; HQ Pet Food Report Notification;

B6

Sent:

6/11/2019 6:00:45 PM

Subject:

Taste of the Wild Sierra Mountain Dry: Lisa Freeman - EON-390196

Attachments:

2068087-report.pdf; 2068087-attachments.zip

A PFR Report has been received and Related PFR Event [EON-390196] has been created in the EON System.

A "PDF" report by name "2068087-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 "2068087-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-390196

ICSR #: 2068087

EON Title: Related PFR Event created for Taste of the Wild Sierra Mountain Dry; 2068087

AE Date	01/14/2019	Number Fed/Exposed	7
Best By Date		Number Reacted	2
Animal Species	Dog	Outcome to Date	Better/Improved/Recovering
Breed	Retriever - Golden		
Age	5 Years		
District Involved	PFR-New England DO		

### **Product information**

**Individual Case Safety Report Number: 2068087** 

**Product Group:** Pet Food

Product Name: Taste of the Wild Sierra Mountain Dry

**Description:** BEG diet being fed to 7 dogs. We evaluated her other dog **B6** who had a murmur and elevated BNP, with reduced contractility and elevated troponin found on exam (see previous report - 2061171). Owner worried about this dog's breathing so we screened her and found reduced contractility, elevated troponin, but normal BNP. Changing diet on both dogs to Pro Plan Sensitive Skin/Stomach Salmon and will recheck in 3 months Other dogs we have not screened **B6** Labrador 5 years old **B6** Golden 3 1/2 years old **B6** Golden

3 years old B6 Golden 3 years 5 months Golden 3 years 9 months

**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: 7 Number of Animals Reacted With Product: 2

Product Name	Lot Number or ID	Best By Date
Taste of the Wild Sierra Mountain Dry		

This report is linked to:

Initial EON Event Key: EON-380714

Initial ICSR: 2063118

### **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-390196

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

 $\underline{https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none\&e=0\&issueType=10100\&issueId=407468\&parentIssueTypeId=12$ 

\_\_\_\_\_

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.

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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.

Poport Datails FON	200106			
Report Details - EON-				
ICSR:	2068087			
Type Of Submission:	Followup			
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:	2019-06-11 13:56:24 EDT			
Initial Report Date:	02/24/2019			
Parent ICSR:	2063118			
Follow-up Report to FDA Request:	Yes	es .		
Reported Problem:	Problem Description:	murmur and elevated on exam (see previo breathing so we scree but normal BNP. Cha Salmon and will rech Labrador 5 years old	o 7 dogs. We evaluated her other dog B6 who had a BNP, with reduced contractility and elevated troponin found us report - 2061171). Owner worried about this dog's ened her and found reduced contractility, elevated troponin, anging diet on both dogs to Pro Plan Sensitive Skin/Stomach eck in 3 months Other dogs we have not screened: B6 B6 Golden 3 1/2 years old B6 Golden 3 years old S 5 months	
	Date Problem Started:	01/14/2019		
	Concurrent Medical Problem:	No		
	Outcome to Date:	Better/Improved/Red	overing	
Product Information:	Product Name:	Taste of the Wild Sie	rra Mountain Dry	
	Product Type:	Pet Food		
	Lot Number:			
	Package Type:	BAG		
	Product Use	Description:	Please see diet history for additional information	
	Information: Manufacturer	Description.	r lease see diet instory for additional information	
	/Distributor Information: Purchase Location			
	Information:			
Animal Information:	Name:	<u>B6</u>		
	Type Of Species:	Dog		
	Type Of Breed:	Retriever - Golden		
	Gender:	Female		
	Reproductive Status:	Neutered		
		25.8 Kilogram		
		5 Years		
	Assessment of Prior Health:			
	Number of Animals Given the Product:	7		
Number of Animals 2 Reacted:				
	Owner Information:	Owner Information provided: Contact:		
			DE	
			Phone: <b>DO</b>	
			Email:	
		Address:	B6	

	Healthcare Professional	Practice Name:	B6	s School of Veterinary Medicine
	Information:	Contact:		Lisa Freeman
				(508) 887-4523
				lisa.freeman@tufts.edu
		Address:	200 Westboro North Grafton Massachusetts 01536 United States	Rd
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:	Email		
Additional Documents:				
	Attachment:	Follow-up medical re	cords pt 2.pdf	
	Description:	Med records		
	Туре:	Medical Records		
	Attachment:	Follow-up medical re	cords pt 1.pdf	
	Description:	Med records		
	Туре:	Medical Records		

### Diet Hx 5/3/2019

	CARDIOLOG Please answer the follows	Y DIET HISTOR		ur net	B6
da mana.	B6 Owner's name:	D6	DS AUDUL YO	-	ate: 5 3 9
	assess your pet's appetite? (mark the		elow that hes	t represents voi	ur net's annetite)
Example:	Poor	point on the igne t		Excellent	ar pera appente)
	Poor		· +	Excellent	
Have you notic	ed a change in your pet's appetite over	the last 1.2 week	re? (check all t	hat annly)	
Eats about the	he same amount as usual □Eats lea efer different foods than usual □Other	ss than usual	□Eats more	than usual	—
Over the last fo	ew weeks, has your pet (check one)  Gained weight  Stayed about the	ne same weight	□Don't know		
Please list belo	ow <u>ALL</u> pet foods, people food, treats, s and that you have fed in the last 2 years	nack, dental chew	vs, rawhides, a	and any other fo	ood item that your pet
Please provide	e enough detail that we could go to the s	store and buy the	exact same fo	od - examples	are shown in the table
Food (in	clude specific product and flavor)	Form	Amount	How often?	Dates fed
	ee Chicken, Lentil, & Sweet Potato Adu		1 ½ cup	2x/day	Jan 2016-present
85% lean ham		microwaved	3 oz	1x/week	June -Aug 2016
	inal beef flavor	treat	1/2	1x/day	Sept 2016-present
Rawhide	0 01	treat	6 inch twist	1x/week	Dec 2018-present
Lunna	no lan -:	.an	172	oxday	Jan 2019-1
Denial	Bunes & Chews	dreat	1 1	3xwall	Jan 2019 -1
Wholeson	ne Dog Biswit	Freat	5 treas	daily	Jan 2019 -12
	l diet information can be listed on the ba	ack of this sheet			
*Any additiona	ny dietary supplements to your pet (for e				any other
Do you give a		which appa and air	ue bronde and		
Do you give as supplements)?	PYes DNo If yes, please list v Bran	which ones and gir d/Concentration	ve brands and		Amount per day
Do you give al supplements)* Taurine Carnitine	PYes INO If yes, please list v Brand Yes INO IYES INO		ve brands and		Amount per day
Do you give an supplements)? Taurine Carnitine Antioxidants	PYes INO If yes, please list v Brand Service INO Servi		ve brands and		Amount per day
Do you give an supplements)? Taurine Carnitine Antioxidants Multivitamin	PYes INO If yes, please list v Brand Strand	d/Concentration	20,000		Amount per day
Do you give an supplements)? Taurine Carnitine Antioxidants Multivitamin Fish oil	PYes INO If yes, please list v Brance  Yes INO  Yes INO  Yes INO  Yes INO  Yes INO  Yes INO  Yes INO	d/Concentration	20,000		Amount per day
Do you give all supplements)? Taurine Carnitine Antioxidants Multivitamin Fish oil Coenzyme Q1 Other (please	PYes INO If yes, please list v Brand IYes INO IYes INO IYes INO IYes INO IYes INO IYes INO IYes INO IYes INO IYes INO IYes INO IYes INO	d/Concentration	20,000		on Adams - Ok - MV
Do you give al supplements)? Taurine Carnitine Antioxidants Multivitamin Fish oil Coenzyme Q1 Other (please Example: Vita	PYes INO If yes, please list v Brand PYes NO PYes NO PYES NO PYES NO PYES NO PYES NO PYES NO PYES NO	d/Concentration	20,000		Amount per day
Do you give al supplements)*  Taurine Carnitine Antioxidants Multivitamin Fish oil Coenzyme Q1 Other (please Example: Vita	PYes INO If yes, please list v Brand PYes INO If yes, please list v Brand PYes INO If yes, please list v Brand PYes INO If yes, please list v Brand PYes INO If yes, please list v Brand B	d/Concentration	20,000		on Adams - 28 - MV
Do you give all supplements)?  Taurine Carnitine Antioxidants Multivitamin Fish oil Coenzyme Q1 Other (please Example: Vita	PYes INO If yes, please list v Brand PYes NO PYes NO PYES NO PYES NO PYES NO PYES NO PYES NO PYES NO	d/Concentration	20,000		on Adams - 28 - MV

### Idexx NT-proBNP 5/3/2019

IDEXX Reference Laboratories Client RODRIGUES Patient: CHLOE IDEXX VetConnect 1-888-433-9967 Date: 05/03/2019 Clients TUFTS UNIVERSITY **B6** 200 WESTBORO RD NORTH GRAFTON, Massachusetts 01536 Patient Species: CANINE Breed: LABRADOR\_RETRIE 508-839-5395 Gender: FEMALE 5 PAYED Account B6 Age: 5Y CARDIOPET proBNP - CANINE CARDIOPET proBNP -**B6** 0 - 900 pmol/L B6 CANINE Comments Frease note: comprete interpretive comments for all concentrations of tardispet proBNP are available in the online directory of services. Serum specimens received

at room temperature may have decreased NI-proBNP concentrations.

### **Troponin 5/31/2019**



### Gastrointestinal Laboratory

### Dr. J.M. Steiner

### Department of Small Animal Clinical Sciences

### Texas A&M University 4474 TAMU

College Station, TX 77843-4474

Website User ID: lisa.freeman@tufts.edu O B6 @tufts.edu



GI Lab Assigned Clinic ID: 23523

Tufts Cummings School of Vet Med - Cardiology/Nutrition 200 Westboro Road

North Grafton, MA 01536 USA Phone: Fax:

Animal Name: Owner Name:

Species:

Date Received:

508 887 4696

**B6** 

Canine May 30, 2019

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

er.

Result Refe

Reference Interval ≤0.06 Assay Date

05/31/19

GI Lab Accession: B6

Ultra-Sensitive Troponin I Fasting

**B6** 

**B6** 

Comments:

B6 Test

GI Lab Contact Information

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

## Cummings Veterinary Medical Center

Cardiology Liaison: 508-887-4696

	B	6			
Pa	tient Dt()	В6			
[		nine			
	В6	Fem	ale (Spay	ed) Labrad	O
Re	triever				
Ye	llow				

### Cardiology Appointment Report DCM STUDY

ske: 5/3/2019
tending Cardiologist:  John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC
B6
urdiology Resident:
B6
udiclogy lecturisan:
<b>B6</b>
udent: B6

Presenting Complaint: 3 month recheck - DCM study

### **General Medical History:**

Initially presented in Jan. 2019 for heart screen; no murmur or arrhythmias ausculted, strong femoral pulses, no concerns at home but had been on BEG diet. Echo showed hypocontractility, VPCs, LAE, right heart enlargement. Marginally low taurine levels. Hx o

Doing well at home. Very active, no changes since last visit.

Diet and Supplements: Purina sensitive stomach

### Cardiovascular History:

Prior CHF diagnosis? N
Prior heart murmur? N
Prior ATE? N
Prior arrhythmia? Y
Monitoring respiratory rate and effort at home? N
Cough? N
Shortness of breath or difficulty breathing? N
Syncope or collapse? N
Sudden onset lameness? N

### Exercise intolerance? N

**Current Medications Pertinent to CV System:** 

### none Cardiac Physical Examination: Muscle condition: Mormal Normal Moderate cachegia Mild muscle loss Marked cachecia Cardiovascular Physical Exam: Murmur Grade: None | V/VI IVVI Murmur location/description: Jugular 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 Arterial pulses: Weak Bounding Fair Pulse deficits Good Pulsus paradoxus Other: Strong Arrhythmia: Bradycardia None | Sinus arrhythmia Tachycardia Premature beats Gallop: Pronounced Yes No Other: Intermittent Pulmonary assessments: Pulmonary crackles **Eupneic** Mild dyspnea Wheezes Marked dyspnea Upper airway stridor Normal BV sounds Abdominal exam: Mild ascites Mormal Hepatomegaly Marked ascites

Abdominal distension	
Problems:	
Hx of VPCs	
Hypocontractility, LAE, right heart enla	rgement seen on previous echo
<u>Differential Diagnoses:</u> Mildly reduced LV contractility - diet-ac	ssociated vs. primary
Diagnostic plan:	_
Echecardiegram	Dialysis profile
Chemistry profile	☐ Theracic radiographs
■ ECG ■ Renal profile	M NT-proENP M Troponin I
Blood pressure	Other tests:
	<b>B6</b>
Doppler findings:	
	B6
Mitral inflow:	
Summated	Pseudonomal
<ul> <li>✓ Normal</li> <li>Delayed relacation</li> </ul>	Restrictive
ECG findines:	
	<b>B6</b>
Assessment and recommendations:	
	levels are stable compared to last exam. Considering that IA is
signs consistent with worsening of the	ocardiogram in 3 months or sooner if patient develops clinical disease.
<u>Final Diagnosis</u> : Mildly reduced LV contractile function	R/O diet related vs variation of normal.
Heart Failure Classification Score:	
☑ la	IIIa
■ lb	□ IIIb
□ II	
ACVIM Classification:	
■ A	■ c

Ao Diam

**IVSd** 

**IVSs** 

**LVIDs** 

LVIDd

LVPWd

EDV(Teich)

SA LA / Ao Diam

### M-Mode **IVSd** LVIDd LVPWd **IVSs LVIDs LVPWs** EDV(Teich) ESV(Teich) EF(Teich) %FS SV(Teich) Ao Diam **LA Diam** LA/Ao Max LA Time HR CO(Teich) O(Teich) **EPSS** M-Mode Normalized **IVSdN** LVIDAN **LVPWdN IVSsN** LVIDsN **LVPWsN** Ao Diam N LA Diam N 2D SATA

cm cm cm cm cm cm ml ml % % ml cm cm cm ms **BPM** l/min l/minm cm **B6**  $\{0.290 - 0.520\}!$ (1.350 - 1.730)! (0.330 - 0.530)! $\{0.430 - 0.710\}!$  $\{0.790 - 1.140\}!$  $\{0.530 - 0.780\}$ !  $\{0.680 - 0.890\}$ (0.640 - 0.900)!cm cm cm cm cm ml

cm

cm

LVPWs cm ESV(Teich) ml EF(Teich) % %FS % SV(Teich) ml LV Major cm **LV Minor** cm Sphericity Index LVLd A4C cm **LVEDV MOD A4C** ml **LVLsA4C** cm **LVESV MOD A4C** ml **LVEF MOD A4C** % SV MOD A4C ml <u>Doppler</u> MV E Vel m/s **B6** MV DecT ms MV Dec Slope m/s MV A Vel m/s MV E/A Ratio E m/s E/E' A' m/s **IVRT** ms **AV Vmax** m/s AV maxPG mmHg **PV Vmax** m/s PV maxPG mmHg PR Vmax m/s PR maxPG mmHg PRend Vmax m/s PRend PG mmHg TR Vmax m/s TR maxPG mmHg

From:	Related PFR Event <pre>cprsignificantactivitycreation@fda.hhs.gov&gt;</pre>
То:	Rotstein, David; Cleary, Michael *; HQ Pet Food Report Notification;  B6
Sent:	6/11/2019 6:08:45 PM
Subject:	Taste of the Wild Sierra Mountain dry: Lisa Freeman - EON-390197
Attachments:	2068089-report.pdf; 2068089-attachments.zip

A PFR Report has been received and Related PFR Event [EON-390197] has been created in the EON System.

A "PDF" report by name "2068089-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 "2068089-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-390197

ICSR #: 2068089

EON Title: Related PFR Event created for Taste of the Wild Sierra Mountain dry; 2068089

AE Date	01/02/2019	Number Fed/Exposed	7
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	Retriever - Golden		
Age	3 Years		
District Involved	PFR-New England DO		

### **Product information**

**Individual Case Safety Report Number: 2068089** 

Product Group: Pet Food

**Product Name:** Taste of the Wild Sierra Mountain dry

**Description:** Eating Taste of the Wild Sierra Mountain since June 2018 (Acana Heritage Poultry before that). This diet was fed to multiple dogs - have not screened other dogs yet so unknown whether they are also affected. Echo showed reduced contractility and mild left atrial enlargement. BNP and troponin mildly elevated, troponin Taurine WNL B6 Changing to Pro Plan Sensitive Skin/Stomach dry and will recheck in 3 months

**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: Stable

Number of Animals Treated With Product: 7 Number of Animals Reacted With Product: 1

Product Name	Lot Number or ID	Best By Date
Taste of the Wild Sierra Mountain dry		

This report is linked to:

**Initial EON Event Key: EON-376361** 

Initial ICSR: 2061171

### **Sender information**

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

### Owner information

**B6** Us

To view this Related PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-390197

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

 $\underline{https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none\&e=0\&issueType=10100\&issueId=407469\&parentIssueTypeId=12$ 

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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.

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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.

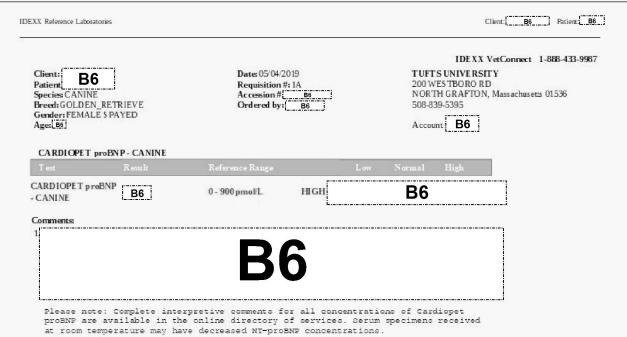
{						
Report Details - EON-	390197					
ICSR:	2068089					
Type Of Submission:	Followup					
Report Version:	FPSR.FDA.PETF.V.V1					
Type Of Report:	Adverse Event (a symptom, reaction or disease associated with the product)					
Reporting Type:	/oluntary					
Report Submission Date:	) 					
Initial Report Date:	01/14/2019					
Parent ICSR:	2061171					
	Yes					
Follow-up Report to FDA Request:						
Reported Problem:	Problem Description:	Poultry before that). dogs yet so unknown contractility and mild troponin B6 Tau /Stomach dry and wi	Wild Sierra Mountain since June 2018 (Acana Heritage This diet was fed to multiple dogs - have not screened other in whether they are also affected. Echo showed reduced left atrial enlargement. BNP and troponin mildly elevated, urine WNL B6 Changing to Pro Plan Sensitive Skin ll recheck in 3 months			
	Date Problem Started:					
	Concurrent Medical Problem:	No				
	Outcome to Date:	Stable				
Product Information:	Product Name:	Taste of the Wild Sie	erra Mountain dry			
	Product Type:	Pet Food				
	Lot Number:					
	Package Type:	BAG				
	Product Use Information:	Description:	See diet history for more details. TOTW fed June, 2018 to present; Acana Heritage Free Run Poultry before that			
	Manufacturer /Distributor Information:					
	Purchase Location Information:					
	iiioiiiauoii.	7.000.000.000.000				
Animal Information:	Name:	B6				
	Type Of Species:	<u> </u>				
	Type Of Breed: Gender:	Retriever - Golden Female				
	Reproductive Status:	1				
	Pregnancy Status:	<u> </u>				
	Lactation Status:	<u>-</u>				
	2.	30.4 Kilogram				
	()	3 Years				
	Assessment of Prior					
	Health:	Excellent				
	Number of Animals Given the Product:	7				
	Number of Animals Reacted:	1				
	Owner Information:	Owner Information provided:	Yes			
		Contact:	Name: Phone: Email:  B6			

		Address:		
			<b>B6</b>	
			שע	
			United States	i
	Healthcare Professional	Practice Name:	Practice Name: Tufts Cummings School of Veterinary Medicine	
	Information:	Contact:	Name:	Lisa Freeman
				(508) 887-4523
				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:	Follow-up medical re	cords pt 2 pdf.p	odf
	Description:			
		Medical Records		
	Attachment:	Follow-up medical re	ecords pt 1.pdf	
	Description:		ooluo priilpul	
		Medical Records		

### Diet Hx 5/3/2019

*Any additional diet information can be listed on the back of this sheet  *Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  **Estational diet information can be listed on the back of ones and give brands and amounts:	tem that your pet thown in the table Dates fed in 2016-present une -Aug 2016 pt 2016-present in 2018-present
Excellent   Poor	tem that your pet thown in the table Dates fed in 2016-present une -Aug 2016 pt 2016-present in 2018-present
Excellent   Poor	tem that your pet thown in the table Dates fed in 2016-present une -Aug 2016 pt 2016-present in 2018-present
Excellent   Poor	tem that your pet thown in the table Dates fed in 2016-present une -Aug 2016 pt 2016-present in 2018-present
Have you noticed a change in your pet's appetite over the last 1-2 weeks? (check all that apply)  Altats about the same amount as usual	Dates fed n 2016-present une -Aug 2016 pt 2016-present c 2018-present
Have you noticed a change in your pet's appetite over the last 1-2 weeks? (check all that apply)  **Eats about the same amount as usual	Dates fed n 2016-present une -Aug 2016 pt 2016-present c 2018-present
Seems to prefer different foods than usual  Other  Over the last few weeks, has your pet (check one)  Cover the last few weeks, has your pet (check one)  Cover the last few weeks, has your pet (check one)  Cover the last few weeks, has your pet (check one)  Cover the last few weeks, has your pet (check one)  Cover the last few weeks, has your pet (check one)  Cover the last few weeks, has your pet (check one)  Cover the last few weeks, has your pet (check one)  Cover the last few weeks, has your pet (check one)  Cover the last few weeks, has your pet (check one)  Cover the last few weeks, has your pet (check one)  Cover the last few weeks, has your pet (check one)  Cover the last few weeks, has your pet (check one)  Cover the last few weeks, has your pet (check one)  Cover the last few weeks, has your pet (check one)  Cover the last few weeks, has your pet (for example: vitamins, glucosamine, fatty acids, or any or supplements)?  Cover the last few weeks, has your pet (for example: vitamins, glucosamine, fatty acids, or any or supplements)?  Cover the last few weeks, has your pet (for example: vitamins, glucosamine, fatty acids, or any or supplements)?  Cover the last few weeks, has your pet (for example: vitamins, glucosamine, fatty acids, or any or supplements)?  Cover the last few weeks, has your pet (for example: vitamins, glucosamine, fatty acids, or any or supplements)?  Cover the last few weeks, has your pet (for example: vitamins, glucosamine, fatty acids, or any or supplements)?  Cover the last few weeks and the same weight  Don't know  Cover the last few weeks and supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any or supplements)?  Cover the last few weeks and any onthe fatty acids, or any or supplements)?  Cover the last few weeks and supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any or supplements)?  Cover the last few weeks and the last 2 years.  Cover the last few weeks and any other food it.  Cover the last few weeks and the last 2 year	Dates fed n 2016-present une -Aug 2016 pt 2016-present c 2018-present
Please list below ALL pet foods, people food, treats, snack, dental chews, rawhides, and any other food it currently eats and that you have fed in the last 2 years.  Please provide enough detail that we could go to the store and buy the exact same food - examples are so the store and buy the exact same food - examples are so the store and buy the exact same food - examples are so the store and buy the exact same food - examples are so the store and buy the exact same food - examples are so the store and buy the exact same food - examples are so the store and buy the exact same food - examples are so the store and buy the exact same food - examples are so the store and buy the exact same food - examples are so the store and buy the exact same food - examples are so the store and buy the exact same food - examples are so the store and buy the exact same food - examples are so the store and buy the exact same food - examples are so the store and buy the exact same food - examples are so the store and buy the exact same food - examples are so the store and buy the exact same food - examples are so the store and buy the exact same food - examples are so the store and sup the store and s	Dates fed n 2016-present une -Aug 2016 pt 2016-present c 2018-present
Please provide enough detail that we could go to the store and buy the exact same food - examples are s  Food (include specific product and flavor) Form Amount How often?  Nutro Grain Free Chicken, Lentil, & Sweet Potato Adult dry 1 ½ cup 2x/day Ja 85% lean hamburger microwaved 3 oz 1x/week Je Pupperoni original beef flavor treat ½ 1x/day Se, Rawhide treat 6 inch twist 1x/week De Punt 10 me 10	Dates fed n 2016-present une -Aug 2016 pt 2016-present c 2018-present
Food (include specific product and flavor)  Nutro Grain Free Chicken, Lentil, & Sweet Potato Adult  85% lean hamburger  Pupperoni original beef flavor  Rawhide  Taurine  Yes INo  Syeet Potato Adult  Any  Amount  How often?  Amount  How often?  Amount  How often?  Form  Amount  How often?  Amount  How often?  Amount  How often?  Amount  How often?  Amount  How often?  Amount  How often?  Amount  How often?  Amount  How often?  Amount  How often?  Amount  How often?  Amount  How often?  Amount  How often?  In Acup 2x/day  Ja  Sylvay  In Acup 3 x Jules	Dates fed n 2016-present une -Aug 2016 pt 2016-present oc 2018-present
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Nutro Grain Free Chicken, Lentil, & Sweet Potato Adult dry 1 ½ cup 2x/day Ja 85% lean hamburger microwaved 3 oz 1x/week Jt Pupperoni original beef flavor treat ½ 1x/day Segawhide treat 6 inch twist 1x/week De Lun nu Du Lun nu	une -Aug 2016 pt 2016-present c 2018-present
#Any additional diet information can be listed on the back of this sheet  Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  **Any additional diet information can be listed on the back of this sheet  Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  **Any additional diet information can be listed on the back of this sheet  **Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  **Example Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  **Example Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  **Example Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  **Example Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  **Example Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  **Example Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  **Example Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  **Example Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  **Example Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  **Example Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  **Example Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of sup	pt 2016-present oc 2018-present n 2019 - Lyres
*Any additional diet information can be listed on the back of this sheet  Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  Brand/Concentration  Am  Taurine  Carnitine  De you give INo  Earned  Am  Taurine  Carnitine  Taurine  Taurine  Carnitine  Taurine   2018-present	
*Any additional diet information can be listed on the back of this sheet  Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  EYES DNO If yes, please list which ones and give brands and amounts:  Brand/Concentration  Am  Taurine  Carnitine  DYES DNO  Taurine  Carnitine  PYES DNO  Taurine  Carnitine  PYES DNO  Taurine  Carnitine  PYES DNO  Taurine  Carnitine  PYES DNO  Taurine  Carnitine  PYES DNO  Taurine  Carnitine	12019 - Jores
*Any additional diet information can be listed on the back of this sheet  Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  Brand/Concentration  Taurine Carnitine  DYES INO  EYES INO	2019 - Jares
*Any additional diet information can be listed on the back of this sheet  Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  Brand/Concentration  Taurine Carnitine  DYES INO  EYES INO	
*Any additional diet information can be listed on the back of this sheet  Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?  BYes INO If yes, please list which ones and give brands and amounts:  Brand/Concentration Am  Taurine Ayes INO  Carnitine IYes INO	12019 7 yrc
Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?	m 2019- pro
Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?	
Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any of supplements)?	
supplements)?	
Carnitine Lifes Lino	other ount per day
Multivitamin DYes DNo	
Fish oil DYes DNo	
Coenzyme Q10	
Other (please list):	lets – 1 per day
	,,
	# T
	F 1 2 2 2
How do you administer pills to your pet?  July do not give any medications	
□ I put them directly in my pet's mouth without food  □ I put them in my pet's dog/cat food □ I put them in a Pill Pocket or similar product □ I put them in foods (list foods):	

### Idexx NT-proBNP 5/3/2019



### **Troponin 5/31/2019**



USA

### Gastrointestinal Laboratory

### Dr. J.M. Steiner

### Department of Small Animal Clinical Sciences

### Texas A&MUniversity 4474 TAMU

College Station, TX 77843-4474

Website User ID: lisa.freeman@tufts.edu OR B6 @tufts.edu

GI Lab Assigned Clinic ID: 23523

В6 Tufts Cummings School of Vet Med - Cardiology/Nutrition 200 Westboro Road North Grafton, MA 01536

> Species: Date Received:

Animal Name:

Owner Name:

Reference Interval

≤0.06

Phone:

Fax:

May 30, 2019

GI Lab Accession B6

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

434853 Test

Ultra-Sensitive Troponin I Fasting

В6

Result

Assay Date

508 887 4696

В6

Canine

05/31/19

Comments:

GI Lab Contact Information

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

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

## Cummings Veterinary Medical Center

Cardiology Liaison: 508-887-4696

B	36			
Patient I	D: B6 Canine			
В6	Fe	male G	olden Reb	rieve
Cream				

### Cardiology Appointment Report DCM STUDY

**Date:** 5/3/2019

Attending Cardiologist:  John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC
B6
Cardidogy Resident:
B6
Cardiology Technician:
<b>B6</b>
Student: B6

<u>Presenting Complaint</u>: DCM study recheck; o reports doing well at home, good energy, no other concerns.

Concurrent Diseases: None

**General Medical History:** On 1/2/19 was referred here by rDVM for elevated BNP (B6), rDVM prompted to check b/c of grain-free diet. Echo in January showed mild systolic dysfunction w/mild IAE. Transitioned to new diet. CBC, chem, BNP WNL.

### **Diet and Supplements:**

Purina sensitive stomach

### **Cardiovascular History:**

Prior CHF diagnosis? N
Prior heart murmur? N
Prior ATE? N
Prior arrhythmia? N
Monitoring respiratory rate and effort at home? N
Cough? N

Shortness of breath or difficulty breathing? N Syncope or collapse? N Sudden onset lameness? N Exercise intolerance? N **Current Medications Pertinent to CV System:** Medication: Taurine Formulation/Tab Size: 500mg capsules Administration Frequency: 2 capsules PO BID Need refills? Cardiac Physical Examination: Muscle condition: Normal Moderate cachecia Mildmuscleloss Marked cachexia Cardiovascular Physical Exam: Murmur Grade: **✓** None **■** I/VI **■** v/vi II/VI **□** ₩/₩ Murmur location/description: Jugular 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 Arterial pulses: Weak Bounding Fair Pulse deficits Good Pulsus paradoxus Strung Other: Arrhythmia: Bradycardia **✓** None Sirvus arrhythmia Tachycardia Premature beats Gallop: Yes 1 Pronounced **☑** No Other: Intermittent Pulmonary assessments: Pulmonary craddes Eucneic

Mild dyspnea	Wheees
Marked dyspnea	Upper airway stridor
Normal BV sounds	
Abdominal exam:  Normal Hepatomegaly Abdominal distension	Mild ascites Marked ascites
<u>Problems</u> : Hx of asymptomatic heart disease	
Differential Diagnoses: Nutritional DCM	
Diagnostic plan:  ☐ Echocardiogram ☐ Chemistry profile ☐ EOG ☐ Renal profile ☐ Blood pressure	☐ Dialysis profile ☐ Thoracic radiographs ☑ NT-proBNP ☑ Troponin I ☐ Other tests:
	<b>B6</b>
Doppler findings:	<sub>1</sub>
<b>B6</b>	
L	<u></u>
Mitral inflow:	
Summated Normal	Pseudonormal  Destriction
Delayed relaxation	Restrictive
i i Deaγeu iesaxdiUπ	
ECG findings:	
B6	5
Acces connect and recommendations:	

Stable systolic function compared to previous exams, despite mild increase in LV cavity size (r/o daily variation or interobserver variation). Recommend keeping current supplementation with Taurine and recheck echocardiogram in 3 months or sooner if patient develops clinical signs consistent with worsening heart disease such as increased RR/RE, cough, exercise intolerance, or syncope.

### Final Diagnosis:

Mild systolic dysfunction with mild LA enlargement-r/o early stage DCM vs. diet induced systolic dysfunction.

### **Heart Failure Classification Score:** ISACHC Classification: IIIa 🔲 la **⊿** lb IIIb **ACVIM Classification:** ■ A ■ B1 **■** B2 M-Mode **IVSd** cm LVIDd cm LVPWd cm IVSs. cm **LVIDs** cm LVPWs cm EDV(Teich) ml ESV(Teich) mΙ % EF(Teich) %FS % SV(Teich) ml Max LA cm Time ms HR **BPM** CO(Teich) l/min CI(Teich) I/minm Ao Diam cm LA Diam cm LA/Ao **TAPSE** cm **EPSS** cm M-Mode Normalized (0.290 - 0.520) **IVSdN** LVIDdN (1.350 - 1.730)! $\{0.330 - 0.530\}$ ! LVPWdN **IVS**sN (0.430 - 0.710)! LVIDsN $\{0.790 - 1.140\}$ ! LVPWsN $\{0.530 - 0.780\}$ **2D** IVSd cm LVIDd cm LVPWd cm EDV(Teich) ml

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	<b>B6</b>

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Popert Datails FON	200106					
Report Details - EON-						
ICSR:	2068087					
Type Of Submission:	Followup					
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:	2019-06-11 13:56:24 EDT	2019-06-11 13:56:24 EDT				
Initial Report Date:	02/24/2019					
Parent ICSR:	2063118					
Follow-up Report to FDA Request:	Yes					
Reported Problem:	Problem Description:	BEG diet being fed to 7 dogs. We evaluated her other dog B6 who had a murmur and elevated BNP, with reduced contractility and elevated troponin found on exam (see previous report - 2061171). Owner worried about this dog's breathing so we screened her and found reduced contractility, elevated troponin, but normal BNP. Changing diet on both dogs to Pro Plan Sensitive Skin/Stomach Salmon and will recheck in 3 months Other dogs we have not screened: B6 Labrador 5 years old B6 Golden 3 1/2 years old B6 Golden 3 years old B6 Golden 3 years 9 months				
	Date Problem Started:	01/14/2019				
	Concurrent Medical Problem:	## <del>*</del>				
	Outcome to Date:	: Better/Improved/Recovering				
Product Information:	Product Name:	Taste of the Wild Sierra Mountain Dry				
	Product Type:					
	Lot Number:					
	Package Type:					
	Product Use	##				
	Information:  Manufacturer					
	/Distributor Information: Purchase Location					
	Information:					
Animal Information:	Name:	d: Retriever - Golden r: Female				
	Type Of Species:					
	Type Of Breed:					
	Gender:					
	Reproductive Status:					
	Weight:					
	Age:					
Assessment of Prior Health:						
	Number of Animals Given the Product:	7777) 7779				
	Number of Animals Reacted:					
	Owner Information:	Owner Information provided: Contact:				
			Phone: B6			
			Email:			
		Address:	B6			

			B6 United States	
	Healthcare Professional	Practice Name:	Practice Name: Tufts Cummings School of Veterinary Me	
	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:	<b>Contact</b> : <b>Phone</b> : 5088874523		
		Email:	lisa.freeman@t	tufts.edu
	Permission To Contact Sender:			
	Preferred Method Of Contact:	Email		
Additional Documents:				
	Attachment:	Follow-up medical re	ecords pt 2.pdf	
	Description:			
	Туре:	Medical Records		
	Attachment:	Follow-up medical re	ecords pt 1.pdf	
		: Med records		
	Type:	: Medical Records		

ICSR:	2068089					
Type Of Submission:	Followup					
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:	2					
Initial Report Date:	01/14/2019					
Parent ICSR:	2061171					
Follow-up Report to FDA Request:	Yes					
Reported Problem:	Problem Description:	Eating Taste of the Wild Sierra Mountain since June 2018 (Acana Heritage Poultry before that). This diet was fed to multiple dogs - have not screened dogs yet so unknown whether they are also affected. Echo showed reduce contractility and mild left atrial enlargement. BNP and troponin mildly elevatroponin B6 Taurine WNL B6 Changing to Pro Plan Sensitiv /Stomach dry and will recheck in 3 months				
	Date Problem Started:		orano comencia de la comencia de la comencia de la comencia de la comencia de la comencia de la comencia de la			
	Concurrent Medical Problem:	mma Parana				
	Outcome to Date:	Stable				
Product Information:	Product Name:	Taste of the Wild Sierra Mountain dry				
	Product Type:	<u> </u>				
	Lot Number:					
	Package Type:	; BAG				
	Product Use Information:	Description:	See diet histor present, Acana	r for more details. TOTW fed June, 2018 to Heritage Free Run Poultry before that		
	Manufacturer					
	/Distributor Information:  Purchase Location Information:					
Animal Information:	24	DC i				
· · · · · · · · · · · · · · · · · · ·	Name:	B6				
	Type Of Species:	Retriever - Golden				
	\$ {	: Female				
	Reproductive Status:					
	Pregnancy Status:					
	Lactation Status:					
		: 30.4 Kilogram				
	·	: 3 Years				
	Assessment of Prior					
	Health:					
	Number of Animals Given the Product:	7				
	Number of Animals Reacted:	1				
	Owner Information:	Owner Information provided:	Yes			
		Contact:	Name:			
				<b>B6</b>		
			Phone:			

		Address:	<b>B6</b> United States	
	Healthcare Professional	Practice Name:	Tufts Cumming	s School of Veterinary Medicine
	Information:	Contact:	Name:	Lisa Freeman
			Phone: (508) 887-4523	
			Email:	lisa.freeman@tufts.edu
		Address:	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@t	ufts.edu
	Permission To Contact Sender:			
	Preferred Method Of Contact:	Email		
Additional Documents:				
/	Attachment:	Follow-up medical re	cords pt 2 pdf.p	odf
	Description:			
	Туре:	Medical Records		
	Attachment:	Follow-up medical re	cords pt 1.pdf	
/	Description:	n: Med records		
	•	Medical Records		

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

To: Jones, Jennifer L
Sent: 2/24/2019 11:19:19 PM

Subject: B6

Attachments: rpt\_medical\_record\_preview.pdf

Hi Jen

Sorry – only attached the dog's previous visit, not the current one. Here's the full record.

This is a housemate of a previously reported dog.

Thanks

Lisa

Lisa M. Freeman, DVM, PhD, DACVN
Board Certified Veterinary Nutritionist<sup>TM</sup>
Professor
Cummings School of Veterinary Medicine
Friedman School of Nutrition Science and Policy
Tufts Clinical and Translational Science Institute
Tufts University

www.petfoodology.org

### Foster Hospital for Small Animals

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

All	Medical	Records

Patient: **B6** 

Breed: Labrador Retriever DOB: **B6** 

Species: Canine Sex: Female

(Spayed)

Client: Address: **B6** 

Home Phone: Work Phone: Cell Phone:

**B6** 

Referring	Information
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B6					
Client: Patient:	В6				

### **Initial Complaint:**

Emergency

SOAP Text B6 1:23PM - B6
B6 12:13 PM NEW VISIT (ER)
Doctor B6 Presenting complaint B6 Diagnostics completed prior to visit: Recent blood work at rDVM per owner, normal results before dental cleaning
HISTORY:
Signalment: 3 yo FS Labrador retriever  Current history: B6  Prior medical history: B6  Current medications: None  Diet: Acana, whole earth  Vaccination status/flea & tick preventative use: Ivermectin, Advantix II
<b>B6</b>

<u> </u>
Client: Patient: <b>B6</b>
C/V: no murmurs or arrhythmias ausculted, femoral pulses strong and synchronous
<b>B6</b>
ASSESSMENT: AI <b>B6</b>
PLAN: 1) 2) 3) 4)  B6
<b>B6</b>
SOAP approved (DVM to sign) B6 MD
B6 1:25:46 PM Prescribed  B6 Instructions - Give 1/2 tablet orally every 12 hours. Give with food Expires: 7/1/2018 No Refills
Initial Complaint: Cardiology DCM study
SOAP Text Jan 16 2019 3:09PM - Rush, John
Subjective
Objective

Assessment

Disposition/Recommendations

Plan

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Cun		mn	6
Veteri	narv N	/ledio	al Co

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:	Labrador Retriever
Sex:	Female (Spayed)
Age:	<b>B6</b> Years Old

	Accession ID:			
Test	Results	Reference Range	Units	

•	4/20	B6
stringsoft		Printed Sunday February 24, 201

### Vitals Results

### **Patient History**

	12:14 PM	UserForm
	12:15 PM	UserForm
	12:21 PM	Vitals
	12:21 PM	Vitals
<b>B6</b>	12:21 PM	Vitals
DU	12:21 PM	Vitals
	12:21 PM	Vitals
	01:37 PM	Prescription
	01:44 PM	UserForm
	01:48 PM	Purchase

Page 4/20

	,	
Client:	DC a	ί
Patient:	DU	
	L/	

### **Patient History**

02:06 AM	Vitals	
02:06 AM	Vitals	
02:06 AM	Vitals	
02:06 AM	Vitals	
02:06 AM	Vitals	
<b>D 6</b> 11:40 AM	Email	
<b>B6</b> 11:40 AM 01:27 PM	Appointment	<b>B</b> 6
01: <b>3</b> 0 PM	UserForm	
02:03 PM	Treatment	
03:14 PM	UserForm	
i		
		L



B6
Fermale (Spayed)
Canine Labrador Retriever Yellow
Patient ID: B6

### 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 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.

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 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

Zφ

Owner's name:	B6	·····)	Date	B6	<u>-</u>			
			i		! 			
Owner's address:		В	6					
Owner's Name Sig	gnature				Date			
	<b>I</b> f the inc	fividual a			al is someone other t te the portion below:		d owner,	
The owner of the to pay the veterin above	animal, ary medic	B6 al <b>services</b>	has g provided	ranted m lat Cumm	e authority to obtain i ings School pursuant i	medical treat to the terms :	ment and to b and conditions	ind this owne described
Authorized Agent	- Please Pi	rint			Agent's Signature			_
Street Address					Date			

B6

Fernale (Spayer)

Canine Labrador Retriever Yellow

Patient ID B6

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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: B(	) Date B	6		
Owner's address	В6			
В	6		<b>B6</b>	/
Owner's Name Signature		Date		.] (

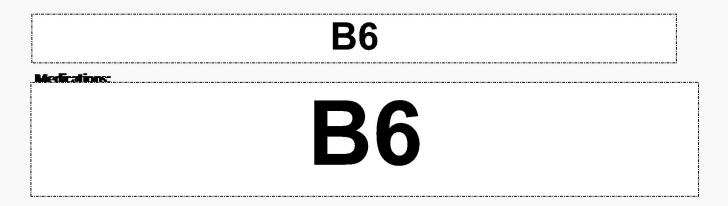
### If the individual admitting the arimal is someone other than the legal owner, please complete the portion below:

The owner of the animal, to pay the veterinary medica above	B6 al services		ited me authority to obtain medical treatment and to bind this of Cummings School pursuant to the terms and conditions describe	
Authorized Agent - Please Pi	rint		Agent's Signature	
Street Address			- Date	
Town/City State	ie	Zip	_	

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) 839-8739 http://wetmed.tufts.edu/

lane: ignalment:	B6       B6	Yellow Female ador Retriever	Name: Address:	<b>B6</b>	
atient II):	В6				
inergency Clinician	в В6 ч	VIMID			
R Supervisor:		···			
		<b>B6</b>			
		Discharge	Instructions		
Admit Date: B6	12:13:26 PM	Discharge	Instructions		
		Discharge	Instructions		
Admit Date: B6 Check Out Date: Case Summary		Discharge	Instructions		
Check Out Dates Case Summary Diagnosis:	B6	Discharge	Instructions		
Check Out Dates Case Summary Diagnosis: 1. B6	B6	Discharge	Instructions		
Check Out Dates Case Summary Diagnosis:	B6	Discharge	Instructions		
Check Out Dates Case Summary Diagnosis: 1. B6	B6	Discharge	Instructions		
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Check Out Dates Case Summary Diagnosis: 1. B6	B6		Instructions		
Check Out Dates Case Summary Diagnosis: 1. B6	B6				
Check Out Dates Case Summary Diagnosis: 1. B6	B6				



### Prescription Refill Discloimer:

For the safety and well-being of our patients, your pet must have had an examination by one of our veterinarions 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/dinical-studies

Case: R6	Омпен В6	Discharge Instructions
- 50		<b>-</b>

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 II): B6
Species: Canine	Address:	В6	
Yellow Female (Spayed) Labrador		DU	
Retriever	C.		.1
<b>Birthdate:</b> B6			
Attending Cardiologist:			
John E. Rush DVM, MS, DACVIM	(Cardiology)D	ACVECC	
DC			
Во			
		<u></u>	
Cardioloev Resident:	D.C.		
<b>'</b>	D0		
Cardiology Technicism			
<b>B6</b>			
·			
Student: B6 V19			
Admit Date: 1/16/2019 1:29:08 PM			
Discharge Date: 1/16/2019			
Thank you for bringing B6 to Tufts to 9	creen her for h	eart disease related:	to being on a "REG" (Boutinue Exotic
			She had strong pulses and no arrhythmias
were heard.			
			mal vigor, and she had a few premature heart
	_	-	as also slightly enlarged, and her right heart
	-		mal in athleticdogs, but wethink it is more
likely that she has mild heart disease, bed	ause or the pre	mature nearweats (	armyunna).
We may be able to enrol [ 86 ] in our DC	M study lookin	e at heart disease as	sociated with BEG diets today. We submitted
			levels will take up to 2-3 weeks to come back
			rine level comes back low, we'll give taurine
			would haveyou continue with the Purina diet
you are currently feeding. B6 does not	t require any of	her heart medicatio	ns at this time, however if she does qualify for
the study (based on an elevated NT-proBi	NP or an elevat	ed troponin), we wil	l want to follow up with another echo in 3
months, now that her diet has been chan	ged.		
It her NT-proBNP and troponin are norma	i then she doe	s not qualify for the s	tudy, but we would recommend a repeat echo

in 8 to 10 months, because of the changes we saw today with the heart and the premature heart beats.

Medications and supplements:

None at this time.
Monitoring at Home:  B6 does not appear to have any significant heart disease at this time. However, please monitor for any weakness or collapse, exercise intolerance, cough or distension of the belly. If you notice any abnormalities we would like to see her for a recheck exam.
Diet Suggestions: Please continue the Purina diet that B6 is now eating.
Recheck Visits and Follow Up: The taurine levels will take 2-3 weeks so we'll let you know when we get these back. If she does qualify for the study (based on an elevated NT-proBNP or an elevated troponin), we will want to follow up with another eacho in 3 months and in 6 months. If she does not qualify then a recheck cardiac exam is recommended in 8 to 10 months.
Thank you for entrusting us with B6 care-she is a sweet, beautiful girl and we loved meeting her today!
Please contact our Cardiology liaison at (508)-887-4696 or email us at cardiovet@turks.edu for scheduling and non-emergent questions or concerns.
Please visit our HeartSmart website for more information http://web.tufts.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 veterinarion 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

promising new test or treatment. Prease see our weasite: <u>ver.tups.eau/com/youniou-studies</u>					
Case B6	Owner B6	Discharge Instructions			

Cardiology Liaison: 508-887-4696

**B6** 

Patient II: B6

Canine
B6 ars Old Female (Spayed) Labrador Retriever
Yellow

### Cardiology Appointment Report ENROLLED IN DCM STUDY

Date: 1/16/2019
Attending Cardiologist:

John E. Rush DVM, MS, DACVIM (Card	iology), DACVECC (primary)
<b>B6</b>	
Cardiology Resident:	
B6	
B6	
<b>S-1</b> V15	

### **Presenting Complaint:**

Possible exercise intolerance, eats grain free food

Exercise intolerance start at about one year - breathes loudly, more hard, will sometimes lay down; same all year, been at a stable state since noticing at one year old

Concurrent Diseases B6

### **General Medical History:**

Overall good at home, good appetite, no coughing

### Diet and Supplements:

Taste of the wild, has had Acana in the past On purina pro plan switched about 1 week ago

### 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? no
Shortness of breath or difficulty breathing? yes but since a puppy

Syncope or collapse? no Sudden onset lameness? no Exercise intolerance? yes but since dog is a puppy

Current Medications Pertinent to CV System:
---

None

Cardiac Physical Examination:		
	36	
Murmur location/description: None heard		
None neard  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  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 strider	
Abdominal exam:		

Hepatomegaly	
	Marked ascites
Abdominal distension	
<u>Problems</u> : Exercise intolerance	
Differential Diagnoses:	
DCM vs pain related (hx TPLO x2) vs congenital	
Diagnostic plan:	
Echocardiogram	Dialysis profile
Chemistry profile	Theracic radiographs
ECG	■ NT-proBNP
Renal profile	Trepenin I
_	Other tests:
☐ Blood pressure	□ Oner usu:
Echocardiogram Findings:	
	2 <b>6</b>
!	
	36
Assessment and recommendations:	
Assessment and recommendations:	
Assessment and recommendations:	actile function and the LA looks to be mildly enlarged.
Assessment and recommendations: Overall the LV cavity has slightly reduced contra	
Assessment and recommendations: Overall the LV cavity has slightly reduced contra	actile function and the LA looks to be mildly enlarged.
Assessment and recommendations: Overall the LV cavity has slightly reduced contra	actile function and the LA looks to be mildly enlarged.
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Assessment and recommendations: Overall the LV cavity has slightly reduced contra	actile function and the LA looks to be mildly enlarged.
Assessment and recommendations: Overall the LV cavity has slightly reduced contra  Final Diagnosis: Mildly reduced LV contractile function R/O diet  Heart Failure Classification Score:	actile function and the LA looks to be mildly enlarged.
Assessment and recommendations: Overall the LV cavity has slightly reduced contra  Final Diagnosis: Mildly reduced LV contractile function R/O diet  Heart Failure Classification Score: ISACHC Classification:	actile function and the LA looks to be mildly enlarged. related vs variation of normal.
Assessment and recommendations: Overall the LV cavity has slightly reduced contra  Final Diagnosis: Mildly reduced LV contractile function R/O diet  Heart Failure Classification Score: ISACHC Classification:	actile function and the LA looks to be mildly enlarged. related vs variation of normal.
Assessment and recommendations: Overall the LV cavity has slightly reduced contra  Final Diagnosis: Mildly reduced LV contractile function R/O diet  Heart Failure Classification Score: ISACHC Classification:    la   lb	actile function and the LA looks to be mildly enlarged. related vs variation of normal.
Assessment and recommendations: Overall the LV cavity has slightly reduced contra  Final Diagnosis: Mildly reduced LV contractile function R/O diet  Heart Failure Classification Score: ISACHC Classification:	actile function and the LA looks to be mildly enlarged. related vs variation of normal.

 $\square c$ 

ACVIM Classification:

**⋑** B1

**■ B2** 

M-Mode		
IVSd		_
LVIDd		om Om
LVPWd		om om
IVSs		om
LVIDs		om
LVPWs		om
EDV(Teich)		ml
ESV(Teich)		ml
EF(Teich)	<b>B6</b>	%
%FS		%
SV(Teich)		ml
Ao Diam		cm
LA Diam		cm cm
LA/Ao		<b>u</b>
Max IA		cm
EPSS		om .
LI 33		G.I.
M-Mode Normalized	(	
IVSdN		(0.290 - 0.520)
LVIDAN		<b>(1.350 - 1.730)</b>
LVPWdN		(0.330 - 0.530)
IVSsN	<b>D</b> 0	(0.430 - 0.710)
LVIDsN	<b>B6</b>	(0.790 - 1.140) !
LVPWsN		(0.530 - 0.780)
Ao Diam N		(0.680 - 0.890)
LA Diam N		(0.640 - 0.900)
<u>2D</u>	<del></del>	
SAIA		cm
Ao Diam		cm
SA LA / Ao Diam		
IVSd		cm
LVIDd		cm
LVPWd		cm
EDV(Teich)		ml
IVSs		cm
LVIDs		cm
LVPWs	<b>B6</b>	cm
ESV(Teich)	DO	ml
EF(Teich)		%
%FS		%
SV(Teich)		ml
LV Major		cm
LV Minor		cm
Sphericity Index		
LVId LAX		cm
LVAd LAX		cm
LVEDV A-L IAX		ml
	I	

	[]	
LVEDV MOD LAX		ml
LVLs LAX		cm
LVAs IAX		cm
LVESV A-L LAX		mi
LVESV MOD LAX		mi
HR		BPM
EF A-L LAX		%
LVEF MOD LAX	<b>B6</b>	%
SV A-L LAX	DU	ml
SV MOD LAX		mi
CO A-L IAX		<b>//min</b>
CO MOD LAX		l/min
R-R		ms
HR		BPM
CO A-L IAX		l/min
CO MOD LAX		l/min
	ii	
<u>Doppler</u>		
MV E Vel		m/s
MV DecT		ms
MV Dec Slope		m/s
MV A Vel		m/s
MV E/A Ratio		
E'	DC	m/s
E/E	<b>B6</b>	
A'		m/s
S'		m/s
AV Vmax		m/s
AV maxPG		mmHg
PV Vmax		m/s

PV maxPG

mmHg



В6		
Dear B6		
Thank you for referring	В6	with 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

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	Fernale (Sp	ayed)
Canine	Labrador Retries	ver Yellow
B6		

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

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

Sent: 2/24/2019 11:24:38 PM

Subject: Taste of the Wild Sierra Mountain Dry: Lisa Freeman - EON-380714

Attachments: 2063118-report.pdf; 2063118-attachments.zip

A PFR Report has been received and PFR Event [EON-380714] has been created in the EON System.

A "PDF" report by name "2063118-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 "2063118-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-380714

ICSR #: 2063118

**EON Title:** PFR Event created for Taste of the Wild Sierra Mountain Dry; 2063118

AE Date	01/14/2019	Number Fed/Exposed	7
Best By Date		Number Reacted	2
Animal Species	Dog	Outcome to Date	Stable
Breed	Retriever - Golden		
Age	5 Years		
District Involved	PFR-New England DO		

### **Product information**

**Individual Case Safety Report Number: 2063118** 

**Product Group:** Pet Food

**Product Name:** Taste of the Wild Sierra Mountain Dry

**Description:** BEG diet being fed to 7 dogs. We evaluated her other dog, **B6** who had a murmur and elevated BNP, with reduced contractility and elevated troponin found on exam (see previous report - 2061171). Owner worried about this dog's breathing so we screened her and found reduced contractility, elevated troponin, but normal BNP. Changing diet on both dogs to Pro Plan Sensitive Skin/Stomach Salmon and will recheck in 3 months Other dogs we have not screened: Max Labrador 5 years old **B6** Golden 3 1/2 years old **B6** Golden 3 years 5 months **B6** Golden 3 years 9 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: 7 Number of Animals Reacted With Product: 2

Product Name	Lot Number or ID	Best By Date
Taste of the Wild Sierra Mountain 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-380714

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=397723

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Report Details - EON-	380714		
ICSR:	2063118		
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 18:16:40 EST		
Reported Problem:	Problem Description:	murmur and elevate on exam (see previor breathing so we scree but normal BNP. Ch. Salmon and will rech. Labrador 5 years old B6 Golden 3 years.	o 7 dogs. We evaluated her other dog B6 who had a d BNP, with reduced contractility and elevated troponin found us report - 2061171). Owner worried about this dog's ened her and found reduced contractility, elevated troponin, anging diet on both dogs to Pro Plan Sensitive Skin/Stomach neck in 3 months Other dogs we have not screened: B6 B6 Golden 3 1/2 years old B6 Golden 3 years old s 5 months B6 Golden 3 years 9 months
	Date Problem Started:	01/14/2019	
	Concurrent Medical Problem:		
	Outcome to Date:	Stable	
Product Information:	Product Name:	Taste of the Wild Sie	erra Mountain Dry
	Product Type:	Pet Food	
	Lot Number:		
	Package Type:	BAG	
	Product Use Information:	Description:	Please see diet history for additional information
	Manufacturer /Distributor Information:		
	Purchase Location Information:		
Animal Information:	Name:	B6	
	Type Of Species:	} <del>-</del>	
	Type Of Breed:	Retriever - Golden	
	Gender:	Female	
	Reproductive Status:	Neutered	
	· · · · · · · · · · · · · · · · · · ·	25.8 Kilogram	
	5 (marine)	5 Years	
	Assessment of Prior Health:		
	Number of Animals Given the Product:	,	
	Number of Animals Reacted:		ş
	Owner Information:	Owner Information provided:	Yes
		Contact:	Name:
			Phone: <b>B6</b>
		Address:	<b>B6</b>
			United States
	Healthcare Professional	D	Turke Cummings Sahari at Wateria ay Maddina
	TICALLICATE FIVIESSIUITAL	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 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 Medical Records		

Report Details - EON-	376363					
ICSR:	2061172					
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:	te: 2019-01-14 17:14:59 EST					
Reported Problem:	Problem Description:	Canin Early Cardiac	veloped DCM and CHF 4/11/18 Owner changed diet to Royal and dog has improved significantly. Will recheck again in 3 otten approval for you to contact owner but sent an email today			
	Date Problem Started:					
	Concurrent Medical					
	Problem:					
	Outcome to Date:	Better/Improved/Recovering				
Product Information:	Product Name:	Zignature kangaroo	dry			
	Product Type:	Pet Food				
	Lot Number:	19 19 19 19 19 19 19				
	Package Type:	BAG				
	Product Use Information:	Description:	See diet history for more details. Zignature Sept 2017-April 2017 Acana Pork/Squash before that			
	Manufacturer /Distributor Information:					
	Purchase Location Information:					
Animal Information:	Name:	В6				
	Type Of Species:					
	Type Of Breed:	I: Retriever - Golden				
	Gender:	Female				
	Reproductive Status:	Neutered				
	Weight:	26.3 Kilogram				
	Age:	B6 Years				
	Assessment of Prior Health:					
	Number of Animals Given the Product:					
	Number of Animals Reacted:	[4] 				
	Owner Information:	Owner Information provided:	Yes			
		Contact:	Name:			
			Phone: B6			
			Email:			
		Address:				
			R6			
			DU			
			L			
	Healthcara Professional					
	Healthcare Professional Information:	. radiida mama.	Tufts Cummings School of Veterinary Medicine			
		Contact:	2			
			Phone: (508) 887-4523			
			Email: lisa.freeman@tufts.edu			

		Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States		
ender 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			
dditional Documents:					
		rpt_medical_record_	preview <b>B6</b> pdf		
	Description:				
	Type:	Medical Records			

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

**Sent:** 10/8/2018 7:28:33 PM

**Subject:** Pro Plan Savory dry - chicken: Lisa Freeman - EON-367850

Attachments: 2055797-report.pdf; 2055797-attachments.zip

A PFR Report has been received and PFR Event [EON-367850] has been created in the EON System.

A "PDF" report by name "2055797-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 "2055797-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-367850

ICSR #: 2055797

EON Title: PFR Event created for Pro Plan Savory dry - chicken beef or lamb (1 cup TID); 2055797

AE Date	B6	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	Retriever - Labrador		
Age	7 Years		
District Involved	PFR-New England DO		

### **Product information**

**Individual Case Safety Report Number: 2055797** 

Product Group: Pet Food

**Product Name:** Pro Plan Savory dry - chicken, beef, or lamb (1 cup TID)

**Description:** Presented to ER o **B6** for CHF and DCM (had rads at RDVM for cough). Full echo on

8/28/18. Unlikely to be associated with diet but reporting because he is sometimes fed the lamb formula Pro Plan.

Taurine WNL

**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
Pro Plan Savory dry - chicken, beef, or lamb (1 cup TID)		

### **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-367850

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=384772

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Report Details - EON-	367850					
ICSR:	2055797					
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:	: 2018-10-08 15:17:24 EDT					
Reported Problem:	Problem Description:	Presented to ER on Full echo on 8/28/18 is sometimes fed the	. Unlikely to be	associated	with diet l	at RDVM for cough). out reporting because he IL
	Date Problem Started:	B6 J				
	Concurrent Medical Problem:					
	Pre Existing Conditions:	B6				
	Outcome to Date:					
Product Information:	Product Name:	Pro Plan Savory dry	- chicken, beef,	or lamb (1	cup TID)	
	Product Type:	-	,	<b>.</b>		
	Lot Number:	<u> </u>				***************************************
	Package Type:	BAG				
	Product Use Information:					
	Manufacturer /Distributor Information:					
	Purchase Location Information:					
Animal Information:	Name:	B6				
	Type Of Species:	: Dog				
	Type Of Breed:	Retriever - Labrador				
	Gender:					
	Reproductive Status:	; Neutered				
	Weight:	: 37.7 Kilogram				
	Age:	7 Years				
	Assessment of Prior Health:	Good				
	Number of Animals Given the Product:	1				
	Number of Animals Reacted:	1				
	Owner Information:	Owner Information provided:	Yes			
		Contact:	Name:	В6		
			Phone:	7		
			Email:	В	6	
		Address:				
			<b>B6</b>			
		United States				
	Healthcare Professional	nal Practice Name: Tufts Cummings School of Veterinary Medicine				rv Medicine
	Information:	Contact:	·			ry Michigan
		Comact.		Lisa Freer (508) 887-		

			Email: lisa.freeman@tufts.edu	
		Address:	200 Westboro Rd	
			North Grafton	
			Massachusetts	
			01536 United States	
Sender Information:	Name:	Lisa Freeman	- States	
onder information.		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:				
	Attachment:	compiled medical re-	cords <b>B6</b> pdf	
		Compiled medical re		
	Type:	Medical Records		

### **Foster Hospital for Small Animals**

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

	B6  Home Phone: Work Phone: Cell Phone:	B6 ) - B6	All Medical Records  Patient: B6  Breed: Labrador Retriever  DOB: B6	Species: Sex:	Canine Male (Neutered)
Referring I	nformation				
			B6		
Client: Patient:	B6				
Initial Compl Emergency  SOAP Text	laint:	:54PM - Clinician,	Unassigned FHSA		
NEW VISIT (E		j.541 W - Chilelan,	Onassigned THOM		
Referral visit	omplaint: card? ? yes		disk), cardiomegaly, B6		
HISTORY:					
where was p day. Howeve have increas	ory: Presented ut on <b>B6</b> er, last night w ed effort brea	with presumtivas coughing a lot a other interesting. Productive c	diagnosed at rDVM. Developed cough and ve diagnosis of kennel cough (was boarde nd seemed uncomfortable. Restless last r ough this am. Took to rDVM this am whe galy. Non-febrile at that time. Was cough	ed last week). Better night and this mornin re they took chest ra	for about a ng. Seems to ads and saw

Vaccination status/flea & tick preventative use: UTD. Flea/tick and heartworm preventative. Just had heartworm test

**B6** 

Prior medical history: Hx of kennel cough last year. Was boarded again last week. Other dog doesnt show any signs. Hx

this morning.

Got

rDVM. No prior c/s/v/d/PU/PD. This past week had decreased appetite and lethargic.

of B6 Takes B6 from June throuhout summer.

**B6** 

Current medications:

Diet: Purina ProPlan.

Client: Patient:	В6
(negative Travel his	•

ne

EXAM:

C/V: grade IV-V/VI L systolic heart murmur, thready pulse quality, no arrythmia ausculted

ASSESSMENT:

A1: Heart murmu	ir, cardiomegaly, r/o DCIVI, CHF
A2:	B6
A3:	DO
DI ANI.	

PLAN:

Diagnostics completed: NOVA

Diagnostics pending: CBC/Chem, cardio consult

Client communication:

**B6** Also told them that he had significant heart murmur today. On rads he has Told O that gave enlarged heart and pulmonary edema. Gave B6 o draw fluid out of lungs. On triage US also has decreased contractility. This is seen with DCM, which can be seen with genetics and age. Gave diuretic because heart is being inefficient and have fluid back-up into lungs. Told O that should be admitted to hospital, get recheck rads tomorrow, and likely will need repeat of B6 Needs cardio consult and an echo-likely wont get until Monday. Also may need oxygen supplementation. O asked if common to see acute signs with DCM. Told O that likely had minor progreesive changes culminating in breathing difficulty. O asked if fluid could be related to pneumonia. Told O that unlikely, but also why we do recheck rads (looking to see improvement with **B6** if it is CHF). O asked about treatment for DCM. Informed O that will be diuretic to make them urinate out his retained fluid. O asked if will drink more. Told will need free choice water while on diuretic. O asked what other drugs he might be on. Discussed B6 which will help Client: Patient:

**B6** 

with contractility. Also informed O that with DCM are at risk for arrhythmia, which we havent noticed yet but he may need medication for if he develops it. O asked if drugs might shrink his heart. Told it likely won't make a significant difference in heart size. However, may shrink heart enough to relieve any compression on trachea and may help with relieving cough. rDVM was worried that cardiomegaly was contributing to his coughing. Told O that coughing is likely related to pulmonary edema. O asked about prognosis and told them that the goal is 6 months without another episode of failure. Some dogs may live longer than that, but on average they generally come back in failure in 6 months. O asked when they might be able to take him home, told them likely Monday. O was very distressed about 6 month timeline, was very surpirsed and upset. Told O that we frequently have dogs live past the 6 months, but it is hard for us to tell beyond that. Told O that he will need to be on medications and have follow-up with Cardio. O asked if he can go back to his normal acitivty levels. Told O that he will need to have pretty strict exercise restriction and that Cardio will guide them further.

Deposit & estimate status: **B6** Resuscitation code (if admitting to ICU) SOAP approved (DVM to sign): **B6 DVM ECC Resident SOAP Text** 9:40AM **B6 B6** 7 yo MN LRT - Presented B6 for cardiomegally and suspected cardiogenic edema (rDVM rads) Coughing since start of the week, initially received doxy b/c boareded at week; not febrile at rDVM Subjective: - BAR, friendly, lovely dog Objective: **B6** CVS: 3-4/6 systolic left murmur, crt normal, pulses SS, mmbr PM, peripheral limbs warm Assessment: 1. CHF, suspected secondary to DCM ,Plan:..

Client: Patient: B6	
B6	
Initial Complaint:  New - B6   presumed DCM from ICU	
SOAP Text Aug 28 2018 5:23PM - B6	



Lab Results Report

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

### **Foster Hospital for Small Animals**

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

Patient:	В6
Species:	Canine
Breed:	Labrador Retriever
Sex:	Male (Neutered)
Age:	<b>B6</b> Years Old

Nova Full Panel-ICU	B6 9:58:25 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	DC	0 - 2	mmol/L
BUN (POC)	<b>B6</b>	12 - 28	mg/dL
CREAT (POC)		0.2 - 2.1	mg/dL
TCO2 (POC)		() - ()	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

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NOVA SAMPLE

Printed Monday, October 08, 2018

mmHg

0-0

0 - 0

**B6** 

6/27

FiO2			0/0
PCO2		0 - 0 36 - 44	% mmHa
PCO2			mmHg
	<b>B6</b>	80 - 100	mmHg
PH	DU	7.337 - 7.467	TT-
PCO2		36 - 44	mmHg
PO2		80 - 100	mmHg
HCO3	L Do	18 - 24	mmol/L
Nova Full Panel-ICU	B6 10:02:12 PM	Accession ID: B6	Jrr. i
Test (A DIHA)	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	% T
MCV(ADVIA)		64.5 - 77.5	fL
MCH(ADVIA)	D.C	21.3 - 25.9	pg
MCHC(ADVIA)	B6	31.9 - 34.3	g/dL
RDW (ADVIA)		11.9 - 15.2	100000
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	<u> </u>	14.7 - 113.7	K/uL
Nova Full Panel-ICU	B6 10:02:28 PM	Accession ID B6	
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		9.4 - 11.3	mg/dL
MAGNESIUM 2+		1.8 - 3	mEq/L
T. PROTEIN		5.5 - 7.8	g/dL
ALBUMIN	B6	2.8 - 4	g/dL
GLOBULINS		2.3 - 4.2	g/dL
A/G RATIO		0.7 - 1.6	
SODIUM		140 - 150	mEq/L
CHLORIDE		106 - 116	mEq/L
POTASSIUM		3.7 - 5.4	mEq/L
CO2 (BICARB)		14 - 28	mEq/L
AGAP		8 - 19	
NA/K		29 - 40	

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Client: <b>B6</b>			
Patient: DO			
T BILIRUBIN		0.1 - 0.3	mg/dL
D.BILIRUBIN		0 - 0.1	mg/dL
I BILIRUBIN		0 - 0.2	mg/dL
ALK PHOS		12 - 127	U/L
GGT		0 - 10	U/L
ALT	DC	14 - 86	U/L
AST	<b>B6</b>	9 - 54	U/L
CK		22 - 422	U/L
CHOLESTEROL		82 - 355	mg/dL
TRIGLYCERIDES		30 - 338	mg/dl
AMYLASE		409 - 1250	U/L
OSMOLALITY (CALCULATED)		291 - 315	mmol/L
COMMENTS (CHEMISTRY)		0 - 0	
Nova Full Panel-ICU	B6 10:02:07 PM	Accession ID: B6	
Test	Results	Reference Range	Units
SEGS%		43 - 86	%
LYMPHS%		7 - 47	%
MONOS%	DC	1 - 15	%
SEGS (AB)ADVIA	B6	2.8 - 11.5	K/ul
LYMPHS (ABS)ADVIA		1 - 4.8	K/uL
MONOS (ABS)ADVIA		0.1 - 1.5	K/uL
WBC MORPHOLOGY		0 - 0	
No Morphologic Abnormalities			
RBC MORPHOLOGY		0 - 0	
No morphologic abnormalities			
Nova Full Panel-ICU	B6 10:49:36 PM	Accession ID: B6	
Test	Results	Reference Range	Units
TS (FHSA)		0 - 0	g/dl
PCV **	B6	0 - 0	%
TS (FHSA)		0 - 0	g/dl
Nova Full Panel-ICU	B6 11:42:25 AM	Accession ID: B6	
Test	Results	Reference Range	Units
SO2%		94 - 100	%
HCT (POC)		38 - 48	%
HB (POC)		12.6 - 16	g/dL
NA (POC)	B6	140 - 154	mmol/L
K (POC)	DU	3.6 - 4.8	mmol/L
CL(POC)		109 - 120	mmol/L
CA (ionized)		1.17 - 1.38	mmol/L
MG (POC)	<u> </u>	0.1 - 0.4	mmol/L
		D.C.	
0	8/27	B6	

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BUN (POC)  CREAT (POC)  CREAT (POC)  12 - 28 mg/dL  CREAT (POC)  0 - 2 - 2.1 mg/dL  0 - 0 mmol/L  0	Client: <b>B6</b> Patient:			
BUN (POC)   12 - 28	GLUCOSE (POC)		80 - 120	mg/dL
CREAT (POC)   0.2 - 2.1   mg/dL	LACTATE			-
CREAT (POC)   0.2 - 2.1   mg/dL   mmol/L   mmo	BUN (POC)			
B6				_
December 2012   December 2013   December 2014   December 201				-
B6	nCA		0 - 0	
BE6	nMG		0 - 0	mmol/L
BE6	GAP		0 - 0	mmol/L
A	CA/MG		0 - 0	mol/mol
A	BEecf	P6	0 - 0	mmol/L
NOVA SAMPLE FiO2 PCO2 PCO2 36 - 44 mmHg PCO2 80 - 100 mmHg PH 7.337 - 7.467 36 - 44 mmHg PCO2 80 - 100 mmHg PCO2 80 - 100 mmHg PCO3 18 - 24 mmol/L  Nova Full Panel-ICU B6 II:47:47 AM Accession ID: B6  Test Results Reference Range Units TS (FHSA) PCV ** PCV ** PCV ** PCS		DU	0 - 0	
NOVA SAMPLE FiO2 PCO2 PCO2 RCO2 RCO2 RCO3 RC -44 RMHg RCO3 RES RESIDE REFERENCE Range REFERENCE Range REFERENCE RANGE RESULS REFERENCE RANGE Units TS (FHSA) PCV ** REST REST REST REST REST REST REST REST	A		0 - 0	mmHg
PCO2   36 - 44   mmHg   PCO2   80 - 100   mmHg   PCO2   36 - 44   mmHg   PCO2   36 - 44   mmHg   PCO2   36 - 44   mmHg   PCO2   80 - 100   mmHg   PCO3   18 - 24   mmol/L   PCO3   18 - 24   mmol/L   PCO3	NOVA SAMPLE		0 - 0	
PO2   80 - 100   mmHg	FiO2		0 - 0	%
PO2	PCO2		36 - 44	mmHg
PH PCO2 36 - 44 mmHg PCO2 80 - 100 mmHg HCO3 18 - 24 mmol/L  Nova Full Panel-ICU  Test Results Reference Range PCV ** B6 0 - 0 g/dl PCV	PO2		80 - 100	
Record   Results   Reference Range   Units	PH		7.337 - 7.467	C
Record   Results   Reference Range   Units	PCO2		36 - 44	mmHg
Results   Reference Range   Units	PO2		80 - 100	-
Results   Reference Range   Units	HCO3		18 - 24	·
B6   0 - 0   g/dl	Nova Full Panel-ICU	B6 11:47:47 AM	Accession ID: B6	
PCV **   B6	Test	Results	Reference Range	Units
TS (FHSA)   B6   B6   B6	TS (FHSA)		0 - 0	g/dl
Results   Reference Range   Units	PCV **	B6	0 - 0	%
Results   Reference Range   Units	TS (FHSA)		0 - 0	g/dl
B6   GLUCOSE   G7 - 135   mg/dL	Nova Full Panel-ICU	8/28/2018 5:24:21 PM	Accession ID: B6	
Section   Sect		Results		
CREATININE   2.6 - 7.2   mg/dL   2.6 - 7.2				
PHOSPHORUS CALCIUM2 T. PROTEIN ALBUMIN GLOBULINS A/G RATIO SODIUM CHLORIDE POTASSIUM NA/K  2.6 - 7.2 mg/dL 9.4 - 11.3 mg/dL 2.8 - 4 g/dL 2.3 - 4.2 g/dL 0.7 - 1.6 mEq/L mEq/L 2.9 - 40  9/27  B6				-
PA - 11.3 mg/dL   PA - 11.3				
T. PROTEIN ALBUMIN GLOBULINS A/G RATIO SODIUM CHLORIDE POTASSIUM NA/K  5.5 - 7.8 g/dL 2.8 - 4 g/dL 0.7 - 1.6 140 - 150 mEq/L 106 - 116 mEq/L 29 - 40  9/27  B6				-
ALBUMIN GLOBULINS A/G RATIO SODIUM CHLORIDE POTASSIUM NA/K  B6  2.8 - 4 g/dL 2.3 - 4.2 g/dL 0.7 - 1.6  mEq/L 106 - 116 mEq/L 2.7 - 5.4 mEq/L 2.8 - 4 g/dL 2.8 - 4				
GLOBULINS A/G RATIO  SODIUM CHLORIDE POTASSIUM NA/K  2.3 - 4.2 g/dL 0.7 - 1.6 140 - 150 mEq/L 106 - 116 mEq/L 29 - 40  9/27  B6				=
A/G RATIO  SODIUM  CHLORIDE  POTASSIUM  NA/K   9/27  0.7 - 1.6  140 - 150  mEq/L  mEq/L  mEq/L  mEq/L  9/27  B6		B6		
SODIUM  CHLORIDE  POTASSIUM  NA/K  140 - 150 mEq/L  mEq/L  mEq/L  29 - 40  9/27  B6				g/dL
CHLORIDE POTASSIUM NA/K  106 - 116 mEq/L mEq/L 29 - 40  9/27  B6				
POTASSIUM NA/K  9/27  B6				=
NA/K 29 - 40 9/27 <b>B6</b>				
9/27 <b>B6</b>				mEq/L
<u> </u>	NA/K		29 - 40	
<u> </u>		9/27	B6	
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Client: <b>B6</b>			
T BILIRUBIN		0.1 - 0.3	mg/dL
D.BILIRUBIN		0 - 0.1	mg/dL
I BILIRUBIN		0 - 0.2	mg/dL
ALK PHOS	B6	12 - 127	U/L
ALT	БО	14 - 86	U/L
AST		9 - 54	U/L
CHOLESTEROL		82 - 355	mg/dL
OSMOLALITY (CALCULATED)		291 - 315	mmol/L
COMMENTS (CHEMISTRY)	·	0 - 0	
Slight hemolysis; Slight lipemia			

Nova Full Panel-ICU	8/28/2018 5:27:40 PM A	ccession ID: B6	
Test	Results	Reference Range	Units
TS (FHSA)		0 - 0	g/dl
PCV **	B6	0 - 0	%
TS (FHSA)		0 - 0	g/dl

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Printed Monday, October 08, 2018

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RDVM B6 referral B6

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Page 11/27

### Taurine Level

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Sample Submission Form	
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Amieno Acid Laboratory	Non-Inderal funds ICs/Account Number
University of California, Davis	To Life.
1020 Vet Mad 18	
(DSB Vecenisary Medicina Driver	
David, CA 95516	
Fel: (5.90)752-5058, Fax: (5.90)752-4698	
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Modern 200 Westlern Road	
North Graden, MA, 01536	
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aurine Results (nmol/mi)	"
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### Reference Ranges (remol/ml)

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	CM	E3-130	<b></b>		0	5-11	-seese
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STEEN CARDIAC GENETICS LABORATORY JOSHUA A. STEAN, DVM, PHD, DACYON (CARDIOLOGY)

### PREDUENTLY REQUESTED INFORMATION RECARDING TABLERS A DILATER CARDIOMYOFATHY IN GOLDEN RETERIVERS

Tourists reference ranges for Golden Retrievers: The Socio Lib suggests that the following plantal lebreucy ranges be used for Golden Retrievers and be considered for other known tractionmeasure baseds such as Netchanollands or American Cocker Spanish. This is primarily based on a observations:

- Goldon Retrievers with nurgical texture lysels (defined below) time been thingureed with dilated capitomyrepathy and have discurrented disease reversal after tearing supplementation and iller change.
- II. Previously published work documents trained conditions in Coldon Reinference.
- The must recently published reference on second 2000 tauring values shows higher territe than previously reported.
  - 2 Normal tehnis blood taurem: -27/inmil/ed.
  - Romat plains marine s Planel/64.
  - Mangingli whole blood naurine (190-255mmi/)mi.
  - Neighad plimink tarrino (ili-70me)/ed.
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Facility N. Chairs S. Pres Ph. Sand Dt. Region CR. Facilities St. Turning delicency of Berthamblack Not transmissibly qualities considered and Laboratory Science Services (INC) 12 K x 124-1255.

### Plasma ex: whole blood traction testing:

If at all possible, we elemented that paired (pleams and whole blood) trustee complex by substance for analysis. A line value on either or both term is clinically rejevant. If your dog is diagnosed with ICDL authoriting paired tearine samples (pleams and whole blood) is imperative. We recommend that the UC Davis Asisso Acid Laboratory be used for traine scitting, as this of where the finestions stitled for our reference ranges was generated. <a href="https://www.existed.com/chin/arisis-usio/iscounter.">https://www.existed.com/chin/arisis-usio/iscounter.</a> (If a single test is substituted the form Lab recommends that rebole blood be substituted perferentially. This is the to the false elevation of factors levels that is possible in plasma susples for to sample handling immen. This is an area of some debut between clinicates and coefficients information on preference for plasma vs. whele blace exists. This is after cover the value of poored sampling.

Page 1-6F3

### Claimal Personal Constitution for College References Superioral Language System Course bores that - Observation is no should be be the first in plants. As inches and long pass his a boster of contribute elements in a minimal elegant to statistic to ear Allow as followed by the complete and the complete of the change in recommendation. 4. If DOM is diagramed, this property may more a valuely of continu producations that untold the productional by the animodyng carritritionalist. n I-CM is diagrammed, premarabased auggebrachmentations with rebuil towardon until becommitteen in Car Carrellor & Carl Apper alignetisch in Lagersone beweite die segat except aftern für den gewonnten inf einen einsager bei d enggy krometer at ent. The dividings, everything the County will be recommended by the attending chinician. paraditing of hear and hage applied fined tages Many Calenny, Matrix every with Appriate deficient DCM of that situally discussed effice and and other language companies of the life to be a second to be a second to the life to be a second to be a secon ff to all the latest to the 200 - 210 cm (100), to be the besidence of the free of the first temperature. An echagen of sugreen by a beard-consiled curbiologist in reconstrainted. After arbitrar diagram has been completed, a diet change in recommendation. Wie recognition than many daign in this contracts large bases served in retowarding runn, and there the police of storm cong should be carpfully compilered. If the dog is entired within that falls: within the PUX warring of artises histograph with the diera identified in our study (see Girts is namenne nocton bedeut. See ancomings ochocarchingsafina actominag setalingsvater activitismis If we expect an image man is not performed, a thai shange or only recommended and a fourther ever procesolication affair those provides up the powerful districted be considered. A CPC M is along position, this particular they were a wardery of configurations that would be presented by the attending contrologist If the Marin plantage and approximate any provided the second of the sec ree all to device the Karradianista of turnita limits to markanital after three months of died charge mulpapálom emariam... Cardinary repetitions in action in 19 by 19 commanded by the presenting still the paralog scharardingraphs fiedings Many Califons Retrievery with apartme-children DCM is that fitting iterated likes what instally temperaturate over a particle of 9-11 mountain. Example of the sect of 250 months of all on Months (Compiler in glassia) The distance is recommended if you are booking a diet than falls wick is the PDA warming or iskares komunen with the that i aerithad so our wody (see thate of transain eaction believe) Al your good attained unity aligns of excellent of impassed (critically) betweening, excellents, excellents, and tutting/exclusion (singling) we to distribute poor returning part returning an available from per-Perc 2 of 8

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### Vitals Results

[	7:19:38 PM	Heart Rate (/min)	
	7:19:39 PM	Respiratory Rate	
	7:19:40 PM	Temperature (F)	
	7:19:41 PM	Lasix treatment note	
	8:01:18 PM	Nursing note	
	10:51:29 PM	Cardiac rhythm	
	10:51:30 PM	Heart Rate (/min)	
	10:52:15 PM	Respiratory Rate	
	10:55:36 PM	Lasix treatment note	
:	11:11:46 PM	Respiratory Rate	
	11:15:36 PM	Eliminations	
	11:59:29 PM	Cardiac rhythm	
	11:59:30 PM	Heart Rate (/min)	
	1:06:28 AM	Respiratory Rate	
	1:06:38 AM	Cardiac rhythm	
	1:06:39 AM	Heart Rate (/min)	
	1:07:29 AM	Respiratory Rate	
	1:16:20 AM	Catheter Assessment	
	1:16:30 AM	Temperature (F)	
<b>B6</b>	1:16:40 AM	Amount eaten	<b>B6</b>
טט	1:24:55 AM	Eliminations	DU
	1:59:16 AM	Cardiac rhythm	
	1:59:17 AM	Heart Rate (/min)	
<u> </u>	2:00:45 AM	Nursing note	
	3:07:42 AM	Cardiac rhythm	
	3:07:43 AM	Heart Rate (/min)	
	3:08:14 AM	Respiratory Rate	
	3:51:34 AM	Respiratory Rate	
	3:51:49 AM	Cardiac rhythm	
	3:51:50 AM	Heart Rate (/min)	
	3:56:33 AM	Eliminations	
	4:53:31 AM	Respiratory Rate	
	4:53:41 AM	Cardiac rhythm	
<u> </u>	4:53:42 AM	Heart Rate (/min)	
	5:05:59 AM	Catheter Assessment	
	5:47:32 AM	Cardiac rhythm	
	5:47:33 AM	Heart Rate (/min)	
	5:47:43 AM	Respiratory Rate	
	6:58:01 AM	Cardiac rhythm	
į 	6:58:02 AM	Heart Rate (/min)	

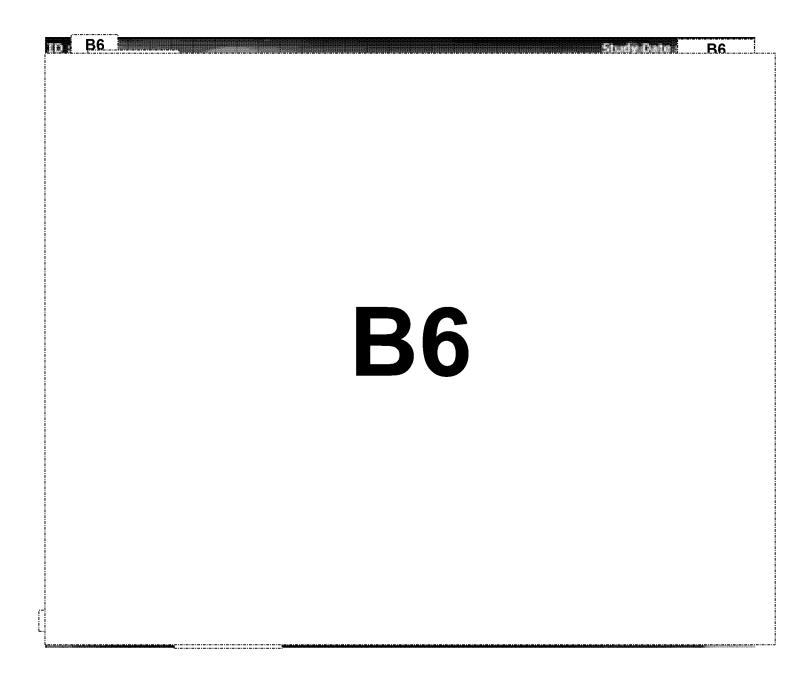
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Vita	le	Res	an'	lte
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; <del></del>			
	6:58:10 AM	Respiratory Rate	
	7:36:37 AM	Weight (kg)	
	7:36:43 AM	Eliminations	
	7:36:58 AM	Respiratory Rate	
	7:40:41 AM	Amount eaten	
	7:40:57 AM	Cardiac rhythm	
	7:40:58 AM	Heart Rate (/min)	
	8:15:42 AM	Lasix treatment note	
	8:57:02 AM	Cardiac rhythm	
	8:57:03 AM	Heart Rate (/min)	
	8:57:12 AM	Respiratory Rate	
	9:02:45 AM	Catheter Assessment	<b>B6</b>
<b>B</b> 6	9:02:59 AM	Eliminations	
	9:58:29 AM	Respiratory Rate	
	11:03:50 AM	Respiratory Rate	
	11:36:45 AM	Respiratory Rate	
	11:36:53 AM	Heart Rate (/min)	
	11:42:00 AM	Eliminations	
	12:53:35 PM	Respiratory Rate	
	1:51:27 PM	Amount eaten	
	2:11:08 PM	Respiratory Rate	
	2:32:31 PM	Lasix treatment note	
	2:32:41 PM	Catheter Assessment	
	2:46:00 PM	Respiratory Rate	
	2:50:43 PM	Eliminations	
	4:29:41 PM	Weight (kg)	 
İ			

Client: Patient: B6

RDVM B6 Rad B6



Client: Patient: B6

RDVM B6 Rads B6

В6 В6 ID: Study Date: **B6** 

Client: **B6** 

RDVM B6 Rads B6

**B6** 

### **Patient History**

	06:37 PM	UserForm	
	07:19 PM	Vitals	
	07:19 PM	Vitals	
	07:19 PM	Vitals	
	07:19 PM	Vitals	
	07:19 PM	Vitals	
	08:01 PM	Vitals	
	08:13 PM	Prescription	
	09:00 PM	UserForm	
	0.04.70.6	D 1	
	09:24 PM	Purchase	
	09:24 PM	Purchase	
	09:25 PM	Purchase	
	09:25 PM	Purchase	
	09:25 PM	Purchase	
	09:58 PM	Purchase	
	10:02 PM 10:02 PM	Purchase	
	10:02 PM 10:06 PM	Purchase Purchase	
	10:06 PM 10:06 PM	Purchase Purchase	
	10:49 PM	Labwork	
	10:51 PM	Treatment	
	10.31 FM	Heatment	
DC	10:51 PM	Vitals	<b>B6</b>
<b>B6</b>	10:51 PM	Vitals	
	10:52 PM	Treatment	
	10:52 PM	Vitals	
	10:55 PM	Vitals	
	10:55 PM	Treatment	
	11:11 PM	Treatment	
	11:11 PM	Vitals	
	11:11 PM	Treatment	
	11:15 PM	Treatment	
	11:15 PM	Vitals	
	11:59 PM	Treatment	
	11:59 PM	Vitals	
	11:59 PM	Vitals	
	01:06 AM	Treatment	
	01:06 AM	Vitals	
	01:06 AM	Treatment	
	01:06 AM	Vitals	
	01:06 AM	Vitals	
	01:07 AM	Treatment	
	01:07 AM	Vitals	
	01:16 AM	Treatment	
	01:16 AM	Vitals	L

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**B6** 

Patient H	Patient History					
	01:16 AM	Treatment				
	01:16 AM	Vitals				
	01:16 AM	Treatment				
	01:16 AM	Vitals				
	01:24 AM	Treatment				
	01:24 AM	Vitals				
	01:59 AM	Treatment				
	01:59 AM	Vitals				
	01:59 AM	Vitals				
	02:00 AM	Vitals				
	03:07 AM	Treatment				
	03:07 AM	Vitals				
	03:07 AM 03:07 AM	Vitals Vitals				
	03:08 AM	Treatment				
	03:08 AM	Vitals				
	03:51 AM	Treatment				
	03:51 AM	Vitals				
	03:51 AM	Treatment				
	03.31 741	Treatment				
	03:51 AM	Vitals				
	03:51 AM	Vitals	<b>B6</b>			
<b>B6</b>	03:56 AM	Treatment	KA			
DU	03:56 AM	Vitals				
	04:53 AM	Treatment				
	04:53 AM	Vitals				
	04:53 AM	Treatment				
	04:53 AM	Vitals				
	04:53 AM	Vitals				
	05:05 AM	Treatment				
	05:05 AM	Vitals				
i i	05:06 AM	Treatment				
	05:47 AM	Treatment				
	05:47 AM	Vitals				
	05:47 AM	Vitals				
! !	05:47 AM	Treatment				
	05:47 AM	Vitals				
	06:58 AM	Treatment				
	06.50.43.5	T.7'. 1				
	06:58 AM	Vitals				
	06:58 AM	Vitals				
	06:58 AM	Treatment				
	06:58 AM	Vitals				
	07:36 AM	Treatment				
	07:36 AM	Vitals				
	07:36 AM	Treatment	L			

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**B6** 

Patient Histor	- <b>,</b>		
07	7:36 AM	Vitals	[
: :	7:36 AM	Treatment	i i i
	7:36 AM	Vitals	i i i
:	7:40 AM	Treatment	
07	7:40 AM	Treatment	
07	7:40 AM	Vitals	
07	7:40 AM	Treatment	
!	7:40 AM	Vitals	
!	7:40 AM	Vitals	
08	3:15 AM	Vitals	
	) 1 C + 3 C	T	
1	3:16 AM	Treatment	; ; ;
08	3:57 AM	Treatment	i 
ho	3:57 AM	Vitals	; ; ;
!	8:57 AM 8:57 AM	Vitals	
! !	8:57 AM 8:57 AM	Treatment	
1	8:57 AM 8:57 AM	Vitals	
! !	9:02 AM	Treatment	
! !	9:02 AM	Vitals	
1 !	9:02 AM 9:02 AM	Treatment	
1 1	9:02 AM 9:02 AM	Vitals	
	9:02 AW 9:11 AM	Purchase	<b>B6</b>
	9:22 AM	Purchase	
:	9:52 AM	UserForm	
	7.32 AIVI	OSCIT OIIII	
09	9:58 AM	Treatment	
:	9:58 AM	Treatment	
!	9:58 AM	Vitals	
!	):04 AM	Deleted Reason	
		_	
i i	1:03 AM	Treatment	; ; ;
i į	1:03 AM	Vitals	
i i	1:29 AM	Treatment	
i i	1:31 AM	Purchase	
1 1	1:36 AM	Treatment	
i i	1:36 AM	Vitals	
i	1:36 AM	Treatment	
i i	1:36 AM	Vitals	; ! !
1 :	1:42 AM	Treatment	
:	1:42 AM	Vitals	: ! !
	1:42 AM	Treatment	
11	1.42 AN4	Durahaga	
1	l:42 AM l:47 AM	Purchase Labwork	
1	2:53 PM	Treatment	
<u> </u> j  2	2.33 PW	Heatment	<u> </u>

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Patient History		
12:53 PM	Vitals	
01:51 PM	Treatment	
01:51 PM	Treatment	
01:51 PM	Vitals	
01.31 PM 02:11 PM	Treatment	
02:11 PM	Vitals	
!		
02:30 PM	Prescription	
02:31 PM	Prescription	
02:32 PM	Vitals	
02:32 PM	Treatment	
02:32 PM	Treatment	
02:32 PM	Vitals	
02:34 PM	Purchase	<b>B6</b>
02:46 PM	Treatment	
02:46 PM	Vitals	
D 6 02:50 PM	Treatment	
<b>B6</b> 02:50 PM 02:50 PM	Vitals	
03:05 PM	UserForm	
12:25 PM	Appointment	
04:00 PM	UserForm	
04:00 PM	Purchase	
04:04 PM	Treatment	
04:29 PM	Vitals	
04:49 PM	Purchase	
05:24 PM	Purchase	
05:27 PM	Labwork	
06:02 PM	UserForm	Cardio Discharge - DCM CHF Form Saved to Record
06:17 PM	Prescription	
06:19 PM	Purchase	<b>B6</b>
09:54 AM	Prescription	<b>D0</b>
09:54 AM	Purchase	

