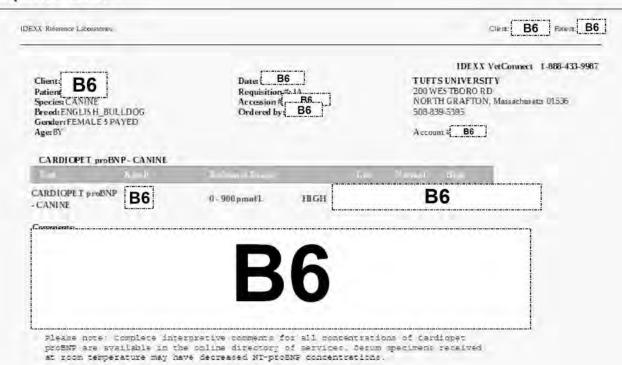
{							
Report Details - EON-	390203						
ICSR:	2068095						
Type Of Submission:	Followup						
Report Version:	FPSR.FDA.PETF.V.V1						
Type Of Report:	Adverse Event (a symptom,	Adverse Event (a symptom, reaction or disease associated with the product)					
Reporting Type:	Voluntary						
Report Submission Date:							
Initial Report Date:	02/25/2019						
Parent ICSR:	2063135						
Follow-up Report to FDA Request:	Yes						
Reported Problem:	Problem Description:	Eating BEG diet - 2 d	other dogs in household diagnosed with DCM (B6 and				
	, , , , , , , , , , , , , , , , , , ,	B6 ,- a which was elevated associated DCM but contractility) Changir	ready reported) RDVM screened this dog with NT-proBNP so we evaluated at Tufts 2/20/19 Probable ARVC/diet- no arrhythmia detected (enlarged right ventricle, reduced ag diet to Royal Canin Early Cardiac and will re-evaluate in 3 and whole blood taurine levels - started taurine supplement 3				
	Date Problem Started:	02/20/2019					
	Concurrent Medical Problem:	Yes					
	Pre Existing Conditions:		B6				
	Outcome to Date:	tte: Stable					
Product Information:	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					
	Product Type:	Pet Food					
	Lot Number:						
	Product Use Information:	Description:	Please see diet history for more info (and also see B6 B6 diet history for exact diets)				
	Manufacturer /Distributor Information:						
	Purchase Location						
	Information:						
Animal Information:	Name:	В6					
	Type Of Species:	Dog					
	Type Of Breed:	Bulldog					
	Gender:	Female					
	Reproductive Status:	Neutered					
	Weight:	24.2 Kilogram					
	Age:	B6 Years					
	Assessment of Prior Health:	Good					
	Number of Animals Given the Product:	6					
	Number of Animals Reacted:	4					
	Owner Information:	Owner Information provided:	Yes				
		Contact:	Name: B6				
			Phone: B6				
		1	ji				

			Email:	L	B6	
		Address:				
		2.22	B6			
			100			
			United States			
	Healthcare Professional	Practice Name:	Tufts Cumming	s School	of Veterinar	y Medicine
	Information:	Contact:	Name:	Lisa Free	man	
		122121		(508) 887		
			Commence of the second state of the second sta		an@tufts.e	du
		Address:	200 Westboro North Grafton Massachusett 01536 United States	Rd		
Sender Information:	Name:	Lisa Freeman	Silico States			
Heat III of Highlott	Name: Address:					
	Address.	200 Westboro Rd North Grafton Massachusetts 01536 United States				
	Contact:	Phone:	5088874523			
		the same of the sa	lisa.freeman@	tufts.edu		
	Permission To Contact Sender:					
	Preferred Method Of Contact:	Email				
Additional Documents:						
	Attachment:	Follow-up med recor	rds pt 2 pdf			
	Description:	Med records				
	Туре;	Medical Records				
	Attachment:	Follow-up med recor	rds pt 1 pdf			
		Med records				
		Med records Medical Records				

Diet hx 5/8/2019

	Please answe	-	DC			- 5 lo ho
et	t's name: Bb Owner How would you assess your pet's appetite?	s name mark the po	int on the line b	elow that bes	t represents you	ate: 5/8/19 ur pet's appetite)
	Example: Poor				Excellent	
	Poor				Excellent	
				1		
	Have you noticed a change in your pet's app Eats about the same amount as usual Seems to prefer different foods than usual	□Eats less				
	Over the last few weeks, has your pet (check Lost weight Gained weight GStaye	one) d about the	same weight	Don't know		
	Please list below ALL pet foods, people food currently eats and that you have fed in the late Please provide enough detail that we could be	st 2 years.				
r	Food (include specific product and f		Form	Amount	How often?	Dates fed
1	Nutro Grain Free Chicken, Lentil, & Sweet P		dry	1 ½ cup	2x/day	Jan 2016-present
I	85% lean hamburger		microwaved	3 oz	1x/week	June -Aug 2016
-	Pupperoni original beef flavor		treat	1/2	1x/day	Sept 2016-preser
ŀ	Rawhide		treat	6 inch twist	1x/week	Dec 2018-presen
ł	Poyal Cours Cardioc		dry	1/200	Mary	FEB 209-PRI
1						
L	*Any additional diet information can be listed	on the hack	of this shoot			
	Do you give any dietary supplements to your supplements)? BYes DNo If yes, ple	pet (for exa ease list whi Brand/0	imple: vitamins, ch ones and giv Concentration	glucosamine, ve brands and	, fatty acids, or a amounts:	any other Amount per day
		1500)		- 4	2×
	Carnitine DYes DNo					
	Antioxidants				-	
	Fish oil					
	Coenzyme Q10					
	Other (please list) Example: Vitamin C	Nat	ure's Bounty		500 mg	tablets – 1 per de
					-	

Idexx NT-proBNP 5/8/2019



B6

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 **B6** GI Lab Assigned Clinic ID: 23523 Phone: **B6** 508 887 4696 Tuffs Cummings School of Vet Med - Cardiology/Nutrition Fax: 200 Westboro Road Animal Name: **B6** North Grafton, MA 01536 Owner Name USA Canine Species: Date Received May 30, 2019 GI Lab Accession B6 Tufts Cummings School of Vet Med -Cardiology/Nutrition Tracking Number. 438993 Test Result Reference Interval Assay Date Ultra-Sensitive Troponin I Fasting... B6 ho/m/ **B6**

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

B6 Patient D: B6 B6 Canine B6 Years Old Female (Spayed) English Bulldog Brown/White

Cardiology Appointment Report

Attending Cardiologist		
John E. Rush D	/M, MS, DACVIM (Cardiology), DACVECC	
į.	B6	
	В	
Cardiology Resident:		
	B6	
Cardiology Technician		
	06	
	36	
Level en	**************************************	
	i con	
Student B6	v20	
	and the second second	
Preterateral	3 month recheck DCM study	
IL DUD - C DO - PU		
HX DNE OF RELDA	M. Possible ARVC but no hx of arrhythmia.	
transme, and a second	M. Possible ARVC but no hx of arrhythmia.	
Concurrent Diseases:	M. Possible ARVC but no hx of arrhythmia.	
tion and a second	M. Possible ARVC but no hx of arrhythmia.	
Concurrent Diseases: Chronic enteritis		
Concurrent Diseases: Chronic enteritis General Medical Histo	1 /2	
Concurrent Diseases: Chronic enteritis	ry: home.	
Concurrent Diseases: Chronic enteritis General Medical Histo	1 /2	
Concurrent Diseases: Chronic enteritis General Medical Histo O reports doing well a	ry: .home. B6	
Concurrent Diseases: Chronic enteritis General Medical Histo O reports doing well at	ry: .home. B6	
Concurrent Diseases: Chronic enteritis General Medical Histo O reports doing well at Diet and Supplements RC Cardiac diet	ry: home. B6	
Concurrent Diseases: Chronic enteritis General Medical Histo O reports doing well at	ry: home. B6	
Concurrent Diseases: Chronic enteritis General Medical Histo O reports doing well at Diet and Supplements RC Cardiac diet Now Taurine 500 mg 8	ny: home. B6	
Concurrent Diseases: Chronic enteritis General Medical Histo O reports doing well at Diet and Supplements RC Cardiac diet Now Taurine 500 mg B	ny: home. B6	
Concurrent Diseases: Chronic enteritis General Medical Histor O reports doing well at Diet and Supplements RC Cardiac diet Now Taurine 500 mg 6 Cardiovascular History Prior CHF diagnosis? N	ny: home. B6	
Concurrent Diseases: Chronic enteritis General Medical Histo O reports doing well at Diet and Supplements RC Cardiac diet Now Taurine 500 mg B Cardiovascular History Prior CHF diagnosis? N Prior heart murmur? N	ny: home. B6	
Concurrent Diseases: Chronic enteritis General Medical Histor O reports doing well at Diet and Supplements RC Cardiac diet Now Taurine 500 mg B Cardiovascular History Prior CHF diagnosis? N Prior heart murmur? N Prior ATE? N	ny: home. B6	
Concurrent Diseases: Chronic enteritis General Medical Histor O reports doing well at Diet and Supplements RC Cardiac diet Now Taurine 500 mg 8 Cardiovascular History Prior CHF diagnosis? N Prior heart murmur? N Prior ATE? N Prior arrhythmia? N	home. B6	ne
Concurrent Diseases: Chronic enteritis General Medical Histor O reports doing well at Diet and Supplements RC Cardiac diet Now Taurine 500 mg 8 Cardiovascular History Prior CHF diagnosis? N Prior heart murmur? N Prior ATE? N Prior arrhythmia? N	ny: home. B6	ng

Syncope or collapse? N Sudden onset lameness? N Exercise intolerance? N

Current Med	ientions l	Pertinent	to C	V S	stem:
-------------	------------	-----------	------	-----	-------

None

Cardiac Physical Examination:		
	B6	
Muscle condition:		
Muscle condition:	Moderate cachexia	
Mild muscle loss	Marked cachesia	
Cardiovascular Physical Exam:		
Murmur Grade:		
None	□ rv/vr	
<u> </u>	□ v/vi	
II II∕vi	□ vựvi	
□ III/VI		
lugular 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	
Arte <u>ria</u> l pulses:		
Wesk	Bounding	
■ Fair	Pulse deficits	
Good	Pulsus paradosus	
☐ Strong	Other:	
Arrh <u>yth</u> mia:	A 1-1-1-1-1-1	
None	- Bradycardia	
Sinus arrhythmia	☐ Tachycardia	
Premature beats		
Gallop:		
₩ Yes ₩ No	Pronounced Other:	
intermittent	iii uner:	
- næmikent		
Pulmonary assessments:	THE CONTRACT OF THE CONTRACT O	
Eupneic	Pulmonary crackles	
Mild dyspnea	Wheezes	
	Upper airway stridor	
Abdominal exam:		
■ Normal	Mild ascites	
Hepatomegaly	Marked ascites	

Abdominal distension	
Problems:	
History of possible early ARVC	
Diagnostic plan:	
Echocardiogram	Dialysis profile
Chemistry profile	Thoracicradiographs
ECG Renal profile	Troponin I
Blood pressure	Other tests: bloodwork for DOM study
	B6
Assessment and recommendations:	
consistent with ARVC, but no arrhythm	ibly mildly improved systolic function. There is still RH dilation nia was documented today. No cardiac medications are clearly recommend continuing to supplement with taurine. Recheck echo in
Final Diagnosis:	
Mild cardiac changes that may be cons	sistent with early arrhythmogenic right ventricular cardiomegaly
(ARVC) or associated with nutritional of February 2019	ardiomyopathy - stable to slightly improved from appointment in
Heart Failure Classification Score:	
ISACHC Classification:	
□ la	Illa
■ ib	■ IIIb
ACVIM Classification:	
□ A	⊞ c
□ B1	■ D
■ B2	

M-Mode		
IVSd	A contraction (m)	cm
LVIDd		om
LVPWd		cm
IVSs	THE STATE OF THE S	om
LVIDs		cm
LVPWs		cm
EDV(Teich)		mi
ESV(Teich)	100	ml
EF(Teich)	B6	%
%FS		%
SV(Teich)		ml
Ao Diam		cm
LA Diam		om
LA/Ao		200
Max LA		cm
TAPSE	100	cm
EPSS	1	cm
M-Mode Normalized		
IVSdN	r	(0.290 - 0.520)
LVIDdN		(1.350 - 1.730)
LVPWdN		(0.330 - 0.530) !
IVSsN	B6	(0.430 - 0.710)
LVIDsN	100	(0.790 - 1.140)
LVPWsN		(0.530 - 0.780) !
Ao Diam N		(0.680 - 0.890)!
LA Diam N	ll	(0.640 - 0.900)
20	Taracada April 1	
SA IA		cm
Ao Diam		cm
SA LA / Ao Diam		
IVSd LVIDd		cm
LVPWd		cm
		cm
EDV(Teich) IVSs		ml om
LVIDs		cm cm
LVPWs	B6	cm cm
ESV(Teich)		om ml
EF(Teich) %FS		% %
SV(Teich)		76 ml
LVId A4C	diam'r.	
		cm
LVEDV MOD A4C		ml
LVIS A4C		cm ml
LVESV MOD A4C	l	ml

LVEF MOD A4C	B6	%
SV MOD A4C		ml
Doppler		
MV E Vel		m/s
MV DecT		ms
MV Dec Slope		m/s
MV A Vel		m/s
MV E/A Ratio		
F	50	m/s
E/E	B6	
A'		m/s
5'		m/s
AV Vmax		m/s
AV maxPG		mmHg
PV Vmax		m/s
PV maxPG	L.	mmHg

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

Discharge Instructions

Patient	Owner		consenses
Marne B6	Mane	B6	Patient ID: B6
Species: Canine	Address:	B6	
Brown/White Female(Spayed) English		DU	
Buildog			
Mirthdate: B6			
A			
Attending Cardiologist:			
John E. Rush DVM, MS, DACVIM	Cardiology), DAC	VECC	
B6			
DO			
<u>L </u>			
La company and a	B6		
Cardioloev Technicism:	1-		
B6			
DU			
Level and the second se			
P INTERNAL DISCONSISSION OF THE PARTY OF THE			
Student: B6 V20			
Date B6			
Date B6			

Diagnoses:

Mild cardiac changes that may be consistent with early arrhythmogenic right ventricular cardiomegaly (ARVC) or associated with nutritional cardiomyopathy - stable to slightly improved from appointment in February 2019

Clinical Findings:

Thank you for bringing B6 in for her three month recheck as a part of the DOM study. You report that B6 has been doing well at home and that you have been giving her Taurine supplement twice a day. Her respiratory rate has been normal and she has had a good energy level at home.

During the appointment today, we performed a recheck echocardiogram (ultrasound of the heart). On the echocardiogram, the structural changes to B6 heart that we had previously seen in February were still present, but are stable to slightly improved. We also used electrocardiogram (EKG) to assess B6 heart rhythm and did not see any antitythmias. Based on B6 echocardiogram and EKG today, we still do not think that B6 needs any medication at this point. Please continue to give her Taurine supplement twice daily.

We drew a blood sample from B6 for the DCM study and will contact you once we have the results back.

Manitoring at Home:

Please continue to watch B6 at home for any signs such as increased respiratory rate or effort, exercise intolerance or episodes of collapse. If you see any of these signs, please contact a veterinarian.

Diet Suggestions:

PRINCIPAL ID HELD DESIGNATION	abyai caran carao	· ·		
Exercise Recommendations:				
B6 may continue her normal ex	ercise at home			
Recommended Medications:				
Please continue to give B6 her 1	aurinesupplemen	t (500 mg by mout	h twice daily).	
Recheck Visits: We would like to s	ee B6 for a rech	eck appointment ir	3 months. At this visit we will want to o	heck
breathing effort and heart function	n, do a blood test i	or the DOM study,	and perform a recheck echocardiogram	B6 will
contact you to schedule this appo	intment once the t	roponin results are	back in a weekorso.	biological desired.
Thank you for entrusting us with	B6 care She is	wonderful dog! P	lease contact our Cardiology liaison at	
	A COLOR COLO		non-emergent questions or concerns.	
Please visit our HeartSmart websi	te for more inform	ation		
http://wei.tulits.edu/heartsmart/		22.00		
Prescription Refill Discloiner:				
	A STATE OF THE PARTY OF THE PAR	must have had an e	numination by one of our veterinarians with	hin the post
Ordering Food:				
Please check with your primary vete			det(s). If you wish to purchase your food)	
되어보고 이 사람들이 한 이름은 그렇게 되었다고 하면 그렇게 되었다. 얼마를 하게 되었다.		ure the food is in st	ock. Alternatively, veterinary diets can be a	ordered from
online retailers with a prescription/s	eterinary approval.			
Clinical Tripls:				
	r veterinory doctors	work with you and	your pet to investigate a specific disease p	rocess or a
promising new test or treatment. Pl	ease see our websito	e: vet.tufts.edu/cvm	c/clinical-studies	
Саме В6	Owner	B6	Discharge Instructions	_
	35455			

Jones, Jennifer L </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP From: (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0F6CA12EAA9348959A4CBB1E829AF244-JENNIFER.JO> Jones, Jennifer L To: Sent: 3/15/2019 11:18:01 AM Subject: 02-MRx summary cc-255 **B6** 8 yr MI Border Collie 5/11/2017-annual exam, no concerns à Gr IV/VI murmur, apparently sire died of heart disease (sudden death during a walk-possible cardiac event), 4Dx neg, 5/19 to cardio: new murmur, 7/6: labs Glob BNP: 1 **B6** Rads: cardiomeg w/ inc LA area 8/2: murmur dx 3 months ago, eats Origin dry kibble Adult w/ cooked hamburger SID **B6** Echo: LV dil, MV thick, Aortic root normal to mild dec, LA mod dil, RH mild dil, ECG-nsr BP **B6** Dx DVD w/ LA enl Tx B6 12/28/2017 no diet change, Echo: LV dil (smaller than last echo on most msr), MV thick, RH mild dil, PA < Aorta, В6 ECG-nsr BP 160 7/2/2018: unchanged diet Labs: nsf Echo: hyperdynamic LV contractile fxn. vol overloaded LV, LA mod-mark enl, MV thick, PA slt > Aorta, RH wnl, +3 MR, tr to +1 TR, tr Pl ECG-nsr w/ infreq isolated unifocal APC 7/31 labs: BUN elev 9/16 or 9/18 labs: BUN 12/18 occ cough when barking, getting furo daily, more PU/PD w/ furo; on Origin Senior dry kibble, Fit and Trim Dry, occ ground hamburger, more relaxed breathing on furo; on **B6** Echo: normal LV thick w/ mild hypokinesis, LV mark dil, LA mark enl, MV thick, PA sl > Aorta, RH wnl, +3 MR, tr to +1 TR, tr PI ECG-nsr BNP hi (illegible #) Tx: recc diet change

Hx-blurry legibility-

Jennifer L. A. Jones, DVM

Veterinary Medical Officer

U.S. Food & Drug Administration

Center for Veterinary Medicine

Office of Research

Veterinary Laboratory Investigation and Response Network (Vet-LIRN)

8401 Muirkirk Road, G704 Laurel, Maryland 20708

new tel: 240-402-5421

fax: 301-210-4685

e-mail: jennifer.jones@fda.hhs.gov

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



From:	Jones, Jennifer L
To:	Jones, Jennifer L
Sent:	3/15/2019 11:47:22 AM
Subject:	03-MRx summary cc-256
•	•
B6 8 yr FS Pit Bu	Il Cross
Mild cough à dx hypo	T4
	ession of signs w/ dyspnea, loud breathing, lethargy, inappetance; adopted 4 yr ago,
	storically been a "Loud breather"
	suspected DCM
	et is Earthborn Meadow Feast GR at least 4 years, 1 mo hx cough, appears nauseaus
i i	B6
LAFAST/TFA	ST: sign hypokinesis, D severe chamber enl;
Labs:	B6
B6	
BNP [86] (# ille	! ible)
Echo: done-	· ,
Tx	B6 !
	before, BP 122
ECG-sinus t	·
Tx:	B6
Labs:	
	nea, dyspnea, resolved w/ furo, O2; sustained tachycardia; B6
ALT B6 AST B6 Ch	
T4 B6	OI { DO ;
	, furo, unasyn, B6 SID, Entyce
! !	
B6 mod-sev cache	B6
<u> </u>	B0
lannifor I A lance I	
Jennifer L. A. Jones, I Veterinary Medical Officer	JV IVI
U.S. Food & Drug Administra	tion
Center for Veterinary Medicin	
Office of Research	matical and Decrease Nationals (Vet LIDN)
8401 Muirkirk Road, G704	gation and Response Network (Vet-LIRN)
Laurel, Maryland 20708	
new tel: 240-402-5421	
fax: 301-210-4685	DS GOV
e-mail: jennifer.jones@fda.hh Web: http://www.fda.gov/Anir	nalVeterinary/ScienceResearch/ucm247334.htm
-	tul mai
DA U.S. FOOD & DRUG ADMINISTRATION	



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: Pomeranian DOB: **B6**

Species: Canine Sex: Male

(Neutered)

Referring Information

B6

Client: Patient:

B6

Initial Complaint:

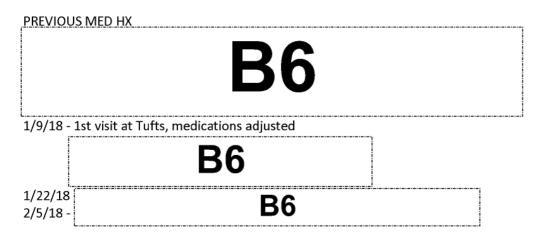
Scanned Record

Client: B6
Patient: Somplaint: New B6
SOAP Text Jan 9 2018 10:24AM - B6
Subjective PATIENT VISIT (INTERNAL MEDICINE)
History: B6 is a 10.5 yr old MN Pomeranian that presented for evaluation of coughing secondary to a collapsing trachea. No V/D, ocassional sneezing but no discharge. Has trouble jumping onto surfaces due to luxating patellas. Good appetite, no lethargy. No prev illness aside from luxating patella and alopecia (which as since resolved)
B6
Other pets in house?: 4 otherother dogs, 1 pom, 3 new
Indoor/outdoor?: both
Travel history: no
Acquired from: breeder in B6
Vaccine history: UTD
Medication history: B6
Dietary history: Type of food: for your health grain free Amount per feeding: free choice Feedings per day:
Exam:
Subjective BAR, MM pink, CRT < 2 sec
Objective
T: B6 P B6 R: panting
B6
H/L: NMA, SSP. Panting and honking cough heard during exam. No crackles or wheezing ausculted B6

B6 Client: Patient: **B6** Assessment: Plan: 1. 2. 3. **B6** Completed by: **B6 Initial Complaint:** Recheck, Collasping Trachea, Breating Issues, Discussion about Further Procedures. **B6** SOAP Text Feb 8 2018 1:00PM -Subjective PATIENT VISIT (INTERNAL MEDICINE)

History:

Since last visit, he was worsE so medications were increased. Initially after the increased of pred saw a mild improvements. Last weekend had a really bad labored breathing and honking episode all weekend. Eating fine no v/d. No episodes of collapse or blue. not PU/PD, pants more with pred.



Page 3/223

	,
Client:	R6
Patient:	1 00

Other pets in house?: 4 other dogs

Indoor/outdoor?:indoors

Travel history:none

Vaccine history: UTD vax

Medication history:

В6

Dietary history:

Type of food: earth born grain free

Amount per feeding: handful of dry food (1/2 cup)

Feedings per day: BID

Exam:

Subjective

BAR, pink mm CRT < 2s, euhydrated

Objective

B6

H/L: difficult to asseess heart, coughing and panting, lungs bilaterally clear difficult to hear anything other than pant.

NMA SSP

В6

Assessment:

1. coughing r/o collapsing trachea least likely cardiac disease (cardiomegaly pushing up on trachea) or CHF vs. bronchitis vs. pneumonia

Plan:

В6

Client: Patient: B6
B6
Completed by: B6 B6 Initial Complaint: Chronic cough (worsening), suspected lower airway disease, tracheal collapse
SOAP Text B6 10:58AM - B6
Subjective NEW VISIT (ER)
Doctor: B6 Student: B6 Presenting complaint: Respiratory distress Referral visit? No Diagnostics completed prior to visit
HISTORY:
Signalment: 11 yo MC Pomeranian Current history: B6 Prior medical history: B6 Current medications: B6 Diet: Vaccination status/flea & tick preventative use: Travel history:
EXAM: S: 11 yo MC Pomeranian O: Wt - 4.06kg T: 100.2 P: 100 R: pant
BCS(1-9): 5/9 MCS B6
Hydration: Euhydrated
B6 C/V: II/VI left sided heart murmur, sinus arrythmia, strong, synchronous femoral pulses
B6

Page 5/223

Client: B6		
NEURO: CN intact, mentally appropriate, full neuro e Pain Present(YorN)? N Pain Score(0-4): RECTAL: Not performed	exam not performed	
ASSESSMENT: A1: Coughing: r/o collapsing trachea vs.lower airway A2: Heart murmur: r/o chronic valvular disease	r disease (pulmonary hyp	pertension vs. pneuomia) vs. CHF
PLAN:		
B6		
Diagnostics completed:		
	B6	
-Echocardiogram: No evidence of PHT, valvular disea	ase or CHF	
Diagnostics pending:		
Client communication: Discussed with owners it is possible there is more go B6 . We believe we hear a new heart murmur in coughing (CHF) as well as lower airway disease (PHT,	n him so would recomme	nd working him up for cardiac causes of
B6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	B6
B6		
Deposit & estimate status:	В6	
Resuscitation code (if admitting to ICU): n/a		
SOAP approved (DVM to sign): B6	, DVM	
SOAP Text B6 6:45AM - Clinician, Unassign	gned FHSA	
5/15/18		
CASE ABSTRACT B6 i is a 11 yr MN Pomeranian who presented to history of a collapsing trachea managed with hydrocomore trouble breathing at night.		
SUBJECTIVE:		

Client: B6		
Patient: BO		
	B6	
Overnight update: Panting all nigh	nt with no effort. Ate 1/4 can RC low fat well last night. Vitals and e	liminations WNL.
OBJECTIVE:		
	B6	
CV: Grade II/VI systolic left apical r	murmur, normal sinus rhythm, femoral pulses strong and synchron	ious.
	B6	
evidence of tracheal/mainstem brotracheoscopy are recommended to evidence of cardiac decompensationsultation.	chial pattern may be consistent with chronic bronchitis given clinical control of the control of	uoroscopy and/or omegaly without consider cardiac
	B6	
ASSESSMENT A1: Increased respiratory effort, had airway disease vs pneumonia A2: Grade II/VI left apical systolic r A3: B6 A4:	marsh lung sounds, worsening cough - chronic bronchitis vs collapsing murmur - DMVD, compensated B6 B6	ng trachea vs lower
	B6	

Client: Patient: B6
B6
CLINICAL IMPRESSION (Summary) B6 does not settle down while he is hospitalized and continues to pant and stress himself into needed B6 for a honking cough/bark. He otherwise seems comfortable and is eating well. The next step in further workup for his respiratory effort is evaluation of his upper and lower airways via bronchoscopy.
PLAN:
B6
B6
TREATMENT: B6
NUTRITION (calculate RER, think of specific nutritional needs for patient) B6
FLUID PLAN Water available at all times, no IVF
B6
CREATED BY: B6 REVIEWED BY B6 SOAP Text B6 7:49AM - Clinician, Unassigned FHSA
CASE ABSTRACT B6 is a 11 yr MN Pomeranian who presented to the EF B6 for increased respiratory effort. First presented to continuous internal medicine service in January, he has a history of a collapsing trachea managed with B6 For one week he had more trouble breathing at night. He was hospitalized for
Page 8/223

FDA-CVM-FOIA-2019-1704-015698

Client: Patient: B6
B6 performed yesterda B6 and kept overnight to monitor temperature and breathing rate after
anesthesia.
SUBJECTIVE: BAR, honking bark when he visualizes other dogs. Did not tire with walking outside. MM pink and moist, CRT < 2 sec, euhydrated. Overnight update: After bronchoscopy yesterday, was hyperventilating and hyperthermic, so was placed in O2 cage in ER for temperature management. Within the hour was back to breathing easier and temp decreased to 99.8 F. Around 9 pm, panting noticed to be extreme, ICU Dr gave and another dose again around 10:30 pm. Some slight effort and mild cough noted around 2 am. Otherwise panting with no effort overnight, eating RC low fat well.
OBJECTIVE:
B6
CV: Grade II/VI systolic left apical murmur, normal sinus rhythm, femoral pulses strong and synchronous. Very difficult to auscult heart today due to panting.
B6
DIAGNOSTICS COMPLETED
B6 Tracheobronchoscopy - mild inflammation of airways, mucus plugs in lower airways. Tracheal collapse grade IV/IV when coughing but only grade I/IV for mainstem bronchi and visualised bronchi. Grade I/IV tracheal collapse between coughing episodes.
B6

B6

CXR - Persistent mild diffuse bronchial pattern may be consistent with chronic bronchitis given clinical signs. There is no evidence of tracheal/mainstem bronchial collapse. However, given reported clinical signs, tracheal fluoroscopy and/or tracheoscopy are recommended to further evaluate a dynamic airways disease. Suspected left cardiomegaly without

Client: Patient: B6
evidence of cardiac decompensation. If a heart murmur is newly detected or worsened in intensity, consider cardiac consultation.
Echocardiogram - No evidence of PHT, mild degenerative valvular disease, cough not suspected to be cardiac in origin.
B6
ASSESSMENT
A1: Increased respiratory effort, harsh lung sounds, worsening cough - chronic bronchitis vs collapsing trachea vs lower
airway disease vs pneumonia A2: Grade II/VI left apical systolic murmur - DMVD, compensated
Az. Grade II/ VI left apical systolic murmur - Divivib, compensated
B6
CLINICAL IMPRESSION (Summary) B6 phtinues to be stressed in hospital. He seems to be breathing adequately, the same as prior to bronchoscopy,
so he will be discharged today.
PLAN:
B6
DIAGNOSTICS:
B6

TREATMENT:

B6

NUTRITION (calculate RER, think of specific nutritional needs for patient) RER = 221 kcal, MER = 354 kcal

Client: Patient: B6
RC Low fat - 1/2 can BID (345 kcal/can)
FLUID PLAN Water available at all times, no IVF
MEDICATIONS
B6
CREATED BY: B6 REVIEWED B
Initial Complaint: Recheck, Coughing Returned
SOAP Text Aug 13 2018 11:06AM - Clinician, Unassigned FHSA
Subjective PATIENT VISIT (INTERNAL MEDICINE)
B6 s an 11 yr MN Pomeranian who presented today for return of cough with increased frequency of cough. Patient has a history of chronic cough, tracheal collapse (grade IV/IV tracheal collapse when coughing, but grade I/IV between coughing episodes) and bacterial pneumonia diagnosed in May 2018. Patient was treated with 8 week course of B6 pegining 5/21. O reports that the cough gradually returned once the antibiotics were d/c on 7/16. The cough is not associated with activity and has been constant B6 vas started of B6 again approximately 2 weeks ago, after his cough had returned. Since re-starting the rapy with B6 the cough has not resolved. He also has a 1 month history of limping in the front limbs with no associated trauma or known cause. Patient
B 6
Current Medications:
B6
Exam:
Subjective: BAR, anxious and panting
Obiective
B6

Page 11/223

Client: **B6** Patient: **B6** H/L: bilaterally harsh bronchovesicular sounds, no crackles or wheezes heard, harsh tracheal turbulence, honking cough, panting, no murmurs or arrythmias heard, synchronous and strong femoral pulses Diagnostics completed: CXR - Intrathoracic tracheal collapse visible, consistent with previous diagnosis of dynamic tracheal collapse. Mild diffuse bronchial pattern present is unchanged since last CXR in May, may be consistent with chronic bronchitis. There is no evidence of pneumonia or pulmonary edema. No evidence of pulmonary decompensation. **CBC** - Pending Assessment: A1: Increased respiratory effort, harsh lung sounds, return of cough - dynamic tracheal collapse vs chronic bronchitis vs infectious pneumonia A2: History of Grade II/VI left apical systolic murmur - compensated **B6** Prescriptions: **B6** Completed by **B6** Reviewed by: **Initial Complaint:** Drop Off Lab Sample **SOAP Text B6** 10:15AM -**B6 Initial Complaint:** Emergency **B6 SOAP Text** 2:16PM **B6**

Subjective

Client: Patient: B6
NEW VISIT (ER)
Doctor B6 Student B6 Presenting complaint: difficulty breathing, worsening cough Referral visit? no Diagnostics completed prior to visit: none
HISTORY:
Signalment B6 s an 11yo MN Pomeranian who presented to Tufts ER o B6 for worsening cough. Current history: Last seen at Tufts of B6 Been doing well since seeing Tufts. This morning he had a "goose" honk cough, slightly different than his usual cough. It sounded gurgly. He was trouble breathing, harsh breathing, lots of abdominal movements, panting. Did not eat earlier this morning. Was being lethargic. Went home at lunch and he seemed to be doing better. He ate and was breathing better but if he got excited he would start coughing again (same cough as in morning). Up until today, his cough has been a lot better. Has 4 other dogs, all fine. Doesn't bring B6 o dog parks or kennels. Prior medical history: Patient has a history of chronic cough, tracheal collapse (grade IV/IV tracheal collapse when coughing, but grade I/IV between coughing episodes) and bacterial pneumonia diagnosed in May 2018. Patient was treated with 8 week course of B6 begining 5/21. O reports that the cough gradually returned once the antibiotics were d/c on 7/16. Started on B6 again which did not resolve the cough. Seen by Tufts IM on B6 rads suggestive of chronic bronchitis. Started on B6 Current medications:
D 0
Diet: Dry food (Earth Borne) 1 "handful" BID
B6
Travel history: None
EXAM:
B6
B6
H/L: bilaterally harsh lung sounds, no crackles or wheezes heard, harsh tracheal turbulence, honking cough, panting, no murmurs or arrythmias heard, synchronous and strong femoral pulses
B6

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Client: B6 Patient:
ASSESSMENT:
A1: Worsening cough and harsh lung sounds - r/o aspiration pneumonia vs. chronic bronchitis vs. other lung disease
B6
A4: Hx of tracheal collapse
PLAN:
CXR
CBC
IVC placement
B6
Diagnostics completed: CXR - interstitial pattern in caudaldorsal right lung field, concern for pneumonia (full report pending)
B6
Diagnostics pending: N/A
Client communication: - Let owner know we consulted with IM on this case because they have a history wit B6 Recommended perfoming CXR and a CBC to rule out aspiration pneumonia since his cough did get acutely worse. Wanted to rule this out before changing any medications. Owner OK with CXR and CBC. - Based on the CXR, we are concerned about pneumonia. Recommend admitting B6 Into the hospital for treatment and monitoring over night. He will be transferred to IM in the morning for further work-up (trans-tracheal wash).
Deposit & estimate status B6
Resuscitation code (if admitting to ICU): B6
SOAP approved (DVM to sign) B6 DVM
SOAP Tex B6 7:30AM B6
Cubication
Subjective CASE ABSTRACT
B6 an 11 yr MN Pomeranian who presented to Tufts ER or B6 for worsening cough and difficulty
breathing. The O noticed he had a "goose" honk cough that had gurgling sounds (different than his usual cough) that
had become actutely worse. He was having trouble breathing with a lot of abdominal movements and panting. Did not eat earlier this yesterda B6 was hospitalized and placed in oxygen overnight.
Pertinent history: Dx'd with dynamic tracheal collapse and bacterial pneumonia in in May 2018 and treated with 8 week course of B6 begining 5/21. After discontinuing the B6 his cough returned B6 was off of B6 or 2-3 weeks (still coughing). B6 was started again or B6 for an additional 2 weeks. No improvement
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Client: B6 Patient:	
was noted after rstarting B6 Last seen at Tufts on B6 or increased cough and respiratory effort. CXR's on B6 showed intrathoracic tracheal collapse visible, consistent with previous diagnosis of dynamic tracheal collapse as well as mild diffuse bronchial pattern present is unchanged since last CXR in May. CBC and fecal B6 was within normal limits. Was started of B6 at this time. History of Grade II/VI left apical systolic murmur. Up until B6 his cough had been doing a lot better.	
Current medications:	
B6	
SUBJECTIVE:	
BAR, friendly B6	
OBJECTIVE:	
CV: no murmurs or arrythmias heard (auscultation of heart was difficult due to harsh respiratory sounds), synchronous and strong femoral pulse Resp: bilaterally harsh bronchovesicular sounds, no crackles or wheezes heard, harsh tracheal turbulence, honking cough, panting, increased expiratory effort	
B6	
DIAGNOSTICS COMPLETED 8/21	
1. CXR - interstitial pattern in caudaldorsal right lung field, concern for pneumonia (full report pending)	
B6	
ASSESSMENT A1: Coughing and increased respiratory effort - r/o dynamic airway collapse vs tracheitis vs chronic bronchitis vs bronchopneumonia vs infectious bronchopneumonia	
B6	

A6: History of Grade II/VI left apical systolic murmur - r/o MDV vs. endocarditis vs other

Client: B6	
PLAN:	
	B6
DIAGNOSTICS:	
B 6	
NUTRITION RER = 198 cal/day	
MEDICATIONS	B6
CREATED BY: B6 REVIEWED BY SOAP Text B6 6:55AN	м - В6
breathing. The O noticed he had had become actutely worse. He	nian who presented to Tufts ER on B6 for acutely worsening cough and difficulty a "goose" honk cough that had gurgling sounds (different than his usual cough) that was having trouble breathing with a lot of abdominal movements and panting. Did not was hospitalized and placed in oxygen overnight. He was started on a course of after recieving a TTW that was sent w episodes of hypoxemia during recovery from ax, and was placed in O again for
with an 8 week course of B6 was off of B6 for 2-3 with the second secon	B6 begining 5/21. After discontinuing the B6 his cough returned. Weeks (still coughing) B6 was started again on 8/1 for an additional 2 weeks. No tarting B6 Last seen at Tufts or B6 for increased cough and respiratory effort. Acid tracheal collapse visible, consistent with previous diagnosis of dynamic tracheal pronchial pattern present is unchanged since last CXR in May. CBC and fecal B6 was don B6 at this time. History of Grade II/VI left apical systolic in had been doing a lot better.
Current medications:	
	B6
L	Page 16/223

Client: DC	
Patient: B6	
B6	
SUBJECTIVE:	
BAR, friendly.	
	B6
OBJECTIVE:	
	B6
	es heard, synchronous and strong femoral pulse hovesicular sounds, no crackles or wheezes heard, harsh tracheal turbulence, panting, tory effort at rest
	B6
8/21 1. CXR - interstitial pattern in	caudaldorsal right lung field, concern for pneumonia (full report pending) B6 "
8/22	
	B6
ASSESSMENT A1: Coughing and increased infectious bronchopneumoni	espiratory effort - r/o dynamic airway collapse vs tracheitis vs chronic bronchitis vs
	B6
A7: History of Grade II/VI left	apical systolic murmur - r/o MDV DIAGNOSED ON ECHO
PLAN:	
	B6

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Client: B6
Patient: B6
DIAGNOSTICS:
NUTRITION RER = 198 cal/day
MEDICATIONS
B6
CREATED BY: B6
Initial Complaint: Recheck rads
SOAP Text Sep 6 2018 11:36AM B6
Subjective
B6 is an 11 yr MN Pomeranian presenting today for a recheck exam. Presented to Tufts ER on B6 for acutely worsening cough and difficulty breathing. Chest radiographs revealed interstitial pattern in the caudodorsal right lung field. a TTW cytology and culture was submited. Prescribed B6 awaiting the culture, then on just B6 once culture results were received.
O report he is doing well at home with current meds. No V/D/C/S. Ocassional cough still present but does not go into resp distress.
Current meds:
B6
Subjective (S) - BAR, MM pink, CRT < 2 sec
Objective (O)
B6
CV: no murmurs or arrythmias heard, synchronous and strong femoral pulse

Client: Patient: B6
Resp: panting throughout exam, no obvious crackles or wheezes, coughed once in exam room non productive
B6
Assessment (A) A1: Coughing and increased respiratory effort - r/o dynamic airway collapse vs tracheitis vs chronic bronchitis vs infectious bronchopneumonia - RESPONDS WELL TO ABX
B6
A7: History of Grade II/VI left apical systolic murmur - r/o MDV DIAGNOSED ON ECHO
Plan (P)
B6
SOAP completed by: B6
Addendum - later in the day after faculty reviewed rads, report reads as below The previously described interstitial to alveolar pulmonary pattern in the right hemithorax is markedly improved, however, there remains a subtle patchy region in the right cranioventral lung. Within the left cranial lung field, there is a patchy region of increased soft tissue opacity that blurs to obscures vascular margins, consistent with an interstitial to alveolar pattern.
Initial Complaint: Emergency
SOAP Text B6 12:04PM - B6
Subjective NEW VISIT (ER)
Doctor: B6

Presenting complaint: Straining to urinate, hematuria

Diagnostics completed prior to visit

Referral visit?

Client:	В6	-				
HISTORY:		. .				_
this morning despite atternoonserved a accidents we yesterday a and luxating anxiety. No seems anxio	g. O noticed that empts to urinate. Small amount of refere he peed in the notate hat he poope a patellas which he B6 previous urinary ous despited the	B6 was dribbilin When asked, O did ed tinged urine at the he house, which is want d normally this more ave been managed for the pr	ng urine this moring that he he tip of his preport that he he tip of his preport unusual for height at 2am. Ordere in the past. heumonia, which ting/drinking nor	ning and not prode e was straining h uce. In addition, nim. O reported t eports previous h Currently on is resolving per d mally, no vomitin	r evalutation of stra lucing his normal vo owever. O also repo in the past week that his last normal u x of collapsing trach B6 owner, as well as g or diarrhea. O repo	lume of urine orted that she B6 has had two urination was ea, pneumonia B6 or
				· · · · · · · · · · · · · · · · · · ·		
			B	3		
EXAM:	.=					
		_				
			B6			
		ur, normal sinus arr				<u>j</u>
RESP: Pantii	ng, Increased bro	nchovesicular sound	ds bilaterally, no	ncreased effort r	noted	
			B6			

ASSESSMENT: **B6**A2: Grade I/IV tracheal collapse

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Client: Patient: B6
B6
44: Grade II/VI systolic murmur r/o DMVD vs DCM vs other B6
PLAN:
DC
B6
Diagnostics completed:
B6
Diagnostics pending:
JA Culture
Client communication:
DC
B6
Deposit & estimate status:
Resuscitation code (if admitting to ICU):
SOAP approved (DVM to sign): B6 DVM
Initial Complaint:
B6
SOAP Text B6 3:35PM B6
Subjective PATIENT VISIT (INTERNAL MEDICINE)
History: Overall B6 has declined in the last few months. He has a several month history of weight loss and is noticed to be osing muscle. In the last 4-5 months, he has been progressively weak and ataxic in the hindlimbs. He has increased thirst in the last few weeks, despite tapering dose of prednisone. He has had large volume urinary accidents in the

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mornings, which is new for him. His diet has not changed. He is defecating less frequently. Overall, his respiratory signs

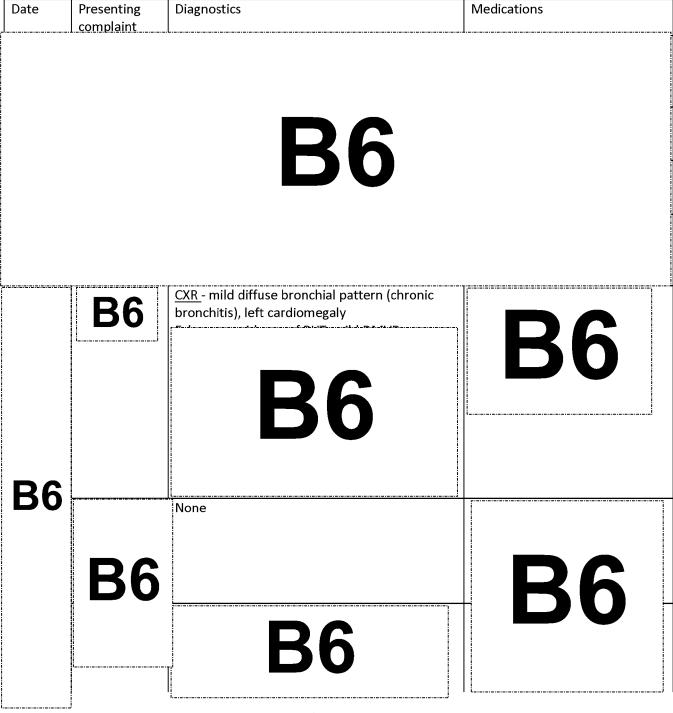
Client:	DC
Patient:	ВО

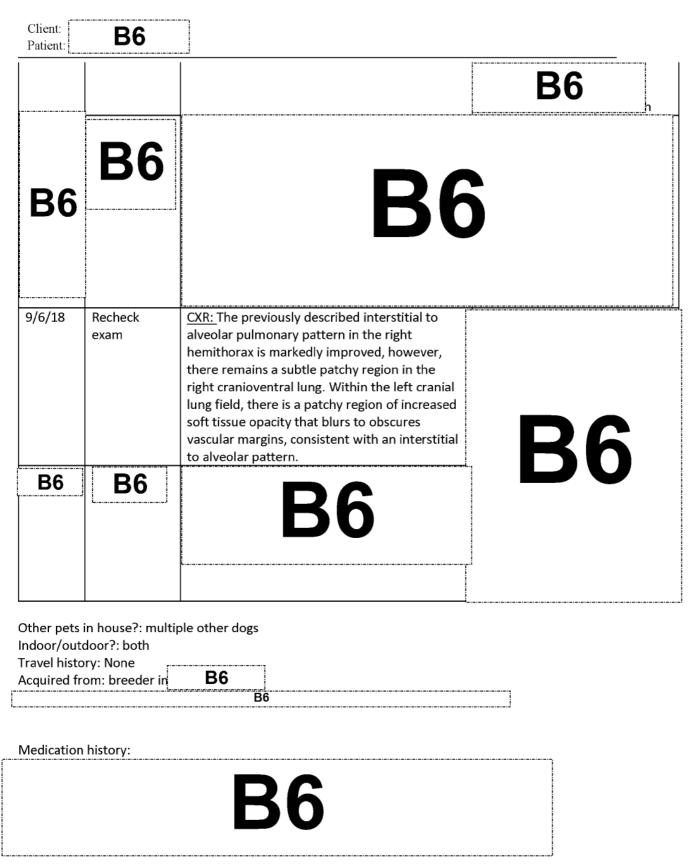
have improved with no coughing or difficulty breathing.

Previous visits - rDVM:

B6

Tufts visits - 2018





Dietary history:

Type of food: Earthborn Grain Free dry food (has been on this diet his whole life)

Amount per feeding: free choice

Feedings per day: BID

Exam:

Subjective

Thin body condition, significant muscle atrophy, ataxic in hindlimbs

Objective

B6

H/L: Grade II/VI left systolic murmur, good to fair femoral pulses. Normal bronchovesicular sounds. Panting but overall eupneic

B6

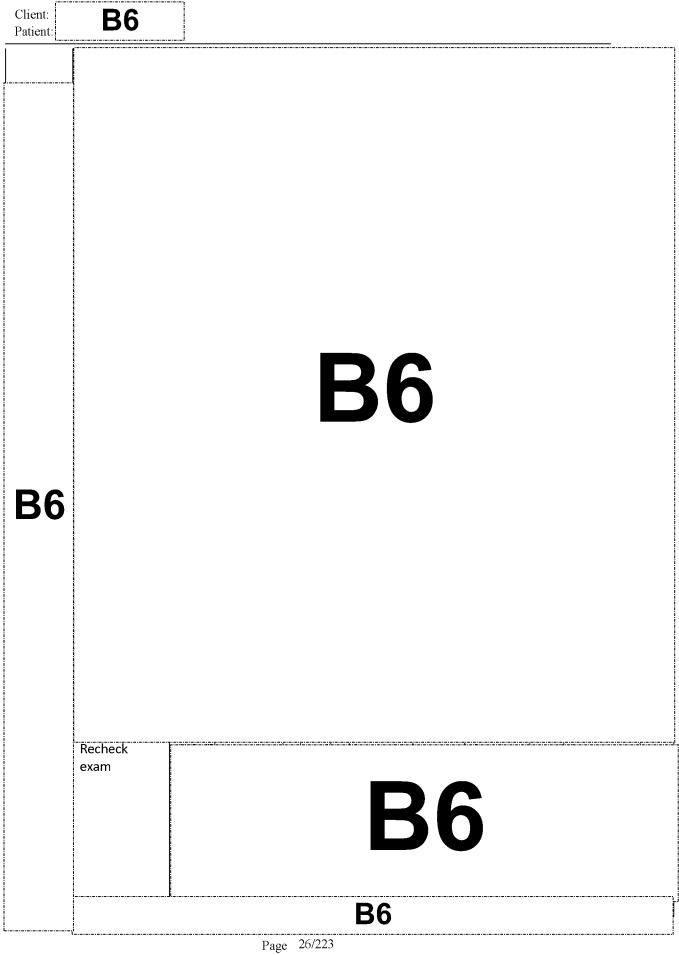
Diagnostics:

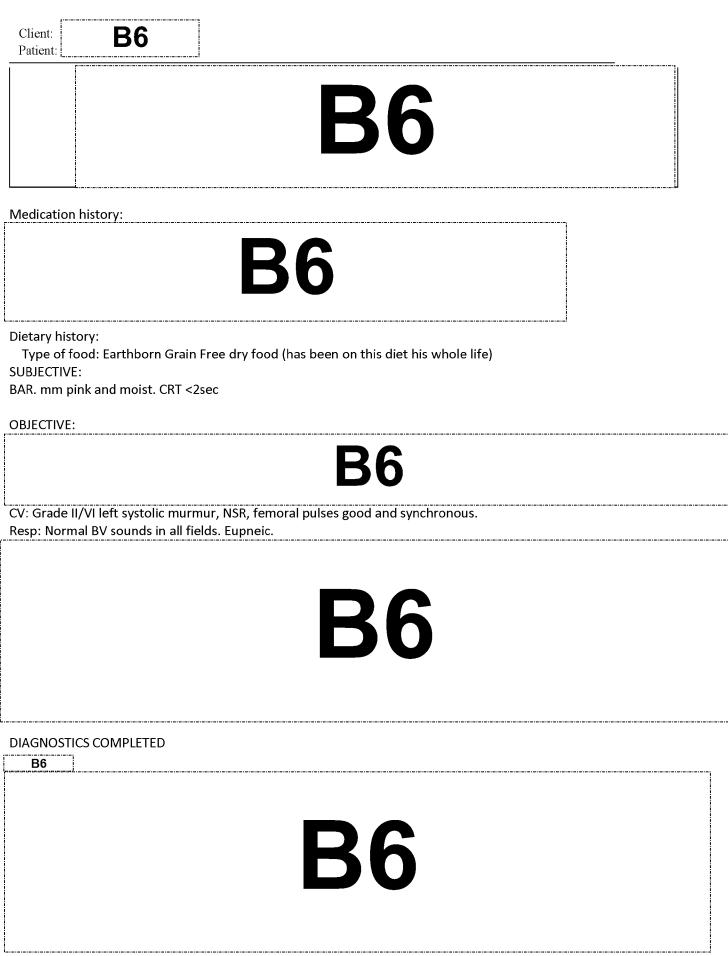
B6

Assessment:

Client: Patient:	В6				
A11. Grade	II/VI systolic hea	art murmur - DMVD			
	В				
Plan:					
		В6			
Completed	by B6	, DVM			
Initial Com	<u>plaint:</u>				
Drop Off IM	I Gen Med, admit	to A ward, new diabetic			
SOAP Text	B6 9:3	B0AM - B6			
losing musc thirst in the house since mornings, where impro-	has declined le. In the last 4- e last few weeks, e mid September which is new for	5 months, he has been p , despite tapering dose o r, which is abnormal for h	He has a several month historogressively weak and ataxif B6 He has had law him. His appetite is inconsistenged. He is defecating lessoning.	c in the hindlimbs. He rge volume urinary ac tent and he is often a	e has increased ccidents in the norexic in the
Tufts visits	- 2018			i	
Date	Presenting complaint	Diagnostics		Medications	
	1		36		

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Client: Patient: B6
applicable, please update daily)
B6
A11. Grade II/VI systolic heart murmur - DMVD
B6
CLINICAL IMPRESSION (Summary)
PLAN:
Diagnostics:
- CXR - AUS -> on board for Fri
Treatment:
B6
Nutrition: (calculate RER, think of specific nutritional needs for patient)
B6
Fluid Plan:
- B6
Medications:
B6

Addendum

B6

CREATED BY:

Client:		
Patient:	B6	
		B6
~		omegaly static compared to the previous study, progressive compared to the 2016 study. No
evidence of car	rdiac deco	empensation. Echocardiography can be considered for further evaluation as clinically indicated.
		B6
SOAP Text	В6	6:40AM - Clinician, Unassigned FHSA
Subjective		
Bloodwork (CB diabetic, anem dosing. He was	NM Pome C/chem) ic, and ha diagnose	eranian, presented to Internal Medicine for a UTI recheck urinalysis and culture on B6 was also performed at that time. Upon further review, it was recognized that B6 was delevated liver enzymes. He was admitted on B6 for further diagnostics and initial insuling with collapsing trachea in 2016 and has a history of chronic bronchitis and recurrent gnosed with a UTI on 9/16/18.
losing muscle. thirst in the las house since mi mornings, whice	In the last t few wee d Septem ch is new	ned in the last few months. He has a several month history of weight loss and is noticed to be 4-5 months, he has been progressively weak and ataxic in the hindlimbs. He has increased eks, despite tapering dose of B6 He has had large volume urinary accidents in the ber, which is abnormal for him. His appetite is inconsistent and he is often anorexic in the for him. His diet has not changed. He is defecating less frequently. Overall, his respiratory signs coughing or difficulty breathing.
SUBJECTIVE: B	AR. mm p	ink, moist. CRT <2sec
		was stable overnight. His BG has still been B6 every 12 every well and urinating a lot (prev. noted PU/PD). He has not defecated since being in the
OBJECTIVE:		
		B6
	•	lic murmur, NSR, femoral pulses good and synchronous. ds in all fields. Mild-moderate effort.
		B6

Pain present(YorN)? N Pain Score(0-4):

DIAGNOSTICS COMPLETED

B6

B6

B6

Thoracic radiographs:

B6

- Mild generalized cardiomegaly static compared to the previous study, progressive compared to the 2016 study. No evidence of cardiac decompensation. Echocardiography can be considered for further evaluation as clinically indicated.

B6

B6

B6

A11. Grade II/VI systolic heart murmur - DMVD

B6

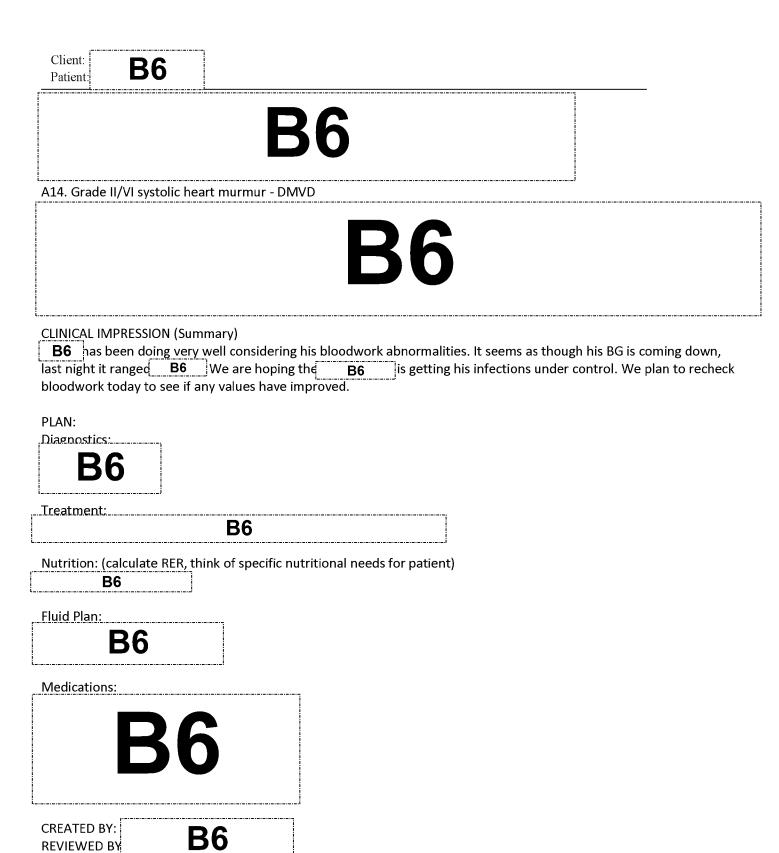
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Client: **B6** Patient: **B6** PLAN: Diagnostics: **B6** Treatment: **B6** Fluid Plan: **B6** Medications: CREATED BY: **B6** REVIEWED B **ADDENDUM** B6 vomited once around 10:30 this morning B6 vas started at 1mg/kg IV q24h. **B6** AUS:

Client: B6	
SOAP Text B6 6:56AM - Clinician, Unassigned FHSA	
Subjective CASE ABSTRACT	_
B6	
B6	
SUBJECTIVE: BAR. mm pink, moist. CRT <2sec	
B6	
OBJECTIVE:	:
B6	
CV: Grade II/VI left systolic murmur, NSR, femoral pulses good and synchronous. Resp: Increased BV sounds in all fields. Mild effort	<u>-</u> i
B6	
DIAGNOSTICS COMPLETED 10/2/18	
B6	

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Client: Patient: B6
Urine culture: pending
B6
Bloodwork:
10am 2pm 6pm
6pm · DU
B 6
- Mild generalized cardiomegaly static compared to the previous study, progressive compared to the 2016 study. No evidence of cardiac decompensation. Echocardiography can be considered for further evaluation as clinically indicated.
B 6
B6
AUS:
B6
B6
ASSESSMENT (Start with current problems (prioritize in list of importance), include historical problems; characterize if applicable, please update daily)
B6
DU



Initial Complaint:

IM 2 Recheck Gen Med - check BG, exam

Client: Patient:

B6

SOAP Text Oct 12 2018 2:31PM -

B6

Subjective

PATIENT VISIT (INTERNAL MEDICINE)

History:

B6

Medication history:

B6

Exam:

Subjective - BAR. mm pink, moist. CRT <2sec.

Objective

B6

CV: Grade II/VI left systolic murmur, NSR, femoral pulses good and synchronous.

B6

Assessment:

Client: B6 Patient:					_
	E	36			
A14. Grade II/VI systolic hear	murmur - DMVD) - stable			
Plan:		36			
Completed by Reviewed by: Initial Complaint: Drop Off IM Gen Med: glucose of SOAP Text Oct 19 2018 7:58	curve, recheck blood	lwork, UA and cultu	re		
Subjective 10/19/18 EXAM, GENERAL Subjective (S) 11 YO MN Pomeranian prese Medication history:	nted for recheck (CBC/Chem/UA/UC	and BG curve. O	reports doing well	at home.
ivieuication mistory.		В	6		

Previous visits - rDVM:

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Client:	D6
Patient:	БО

12/28/17 – No longer responding to medications

e	rs - 2018 Presenting	Diagnostics	Medications
	complaint		
		Bh	
		B6	

Client: Patient: **B6**

B6

B6

B6

10/12/18

-Continue plan, no changes

Objective (O)

Client: **B6**Patient:

Pain Present (YorN)?N Pain Score(0-4):

Assessment (A)

B6

A14. Grade II/VI systolic heart murmur - DMVD - stable

B6

DIAGNOSTICS:

B6

Plan (P)

-Medications:

B6

SOAP completed by: SOAP reviewed by: (

Initial	Com	plaint
Initiai	Com	piaint

heart failure, DCM

SOAP Text B6 2:44PM - B6
Subjective NEW VISIT (ER)
Doctor B6
Presenting complaint: B6 Referral visit? N Diagnostics completed prior to visit: last seen by IM 10/19/18
HISTORY:
Signalment: 11 <u>yo MN</u> Pomeranian <u>Current history</u> : B6 presented for a sudden onset of weakness and ataxia. He ate normally this morning, got B6 Okay. O came back from errands and found him sitting in urine, difficulty walking (ataxic) when she
moved him, staring in space with neck extended, responsive to O when she put him down and called him. Found soft stool in house, unlike him. Was restless (getting up and down) in car, possibly regurgitating (no gagging or throwing up). No c/s/v/d, normal e/d/u/d this past week. Activity level and behavior normal until this event. Prior medical history: -last appointment with IM 10/19 to recheck CBC/Chem/UA/BG curve (dx B6 at begining of October 2018)
B6 grade II/VI murmur
B6
Current medications:
B6
Diet: dry Vaccination status/flea & tick preventative use: UTD Travel history: none
EYAM:
B6

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Client: Patient: **B6**

B6

Hydration: adequate

B6

C/V: Grade II/VI murmur appreciated L>R, no arrhythmias, peripheral pulses strong

RESP: increased respiratory effort with some abdominal component, willcough when exerted, slightly increased BV sounds bilaterally, no crackles

B6

ASSESSMENT:

B6

A6: Grade II/IV murmur: mitral valve disease

B6

Diagnostics completed:

Client:	DC				
Patient:	B6				
	E	36			
Diagnostics pend	ing: none				
Client communic	ation:				
			36		
		L	3 0		
Deposit & estima	te status:	B6		<u></u>	
Resuscitation cod	le (if admitting to	o ICU) B6			
SOAP approved (DVM to sign)	B6 BVSc			
EXAM, GENERAL					
Subjective (S)					
Ol: 12 /O					
Objective (O) T: HR: RR:	BW:				
BCS(1-9):	l modorato saver	ro).			
MCS(normal,mild	i,moderate,sevel	iej.			
PLN:					
H/L: Abd:					
UG:					
MSI: Neuro:					
Pain Present (Yor	N)? Pain Score	(0-4):			
Assessment (A)					
A1:					
A2:					
Plan (P)					
SOAP completed					
SOAP reviewed b	y:				
SOAP Text Oct	22 2018 7:09AM	B6			

011	ſ
Client:	i
Patient:	ŀ

B6

_			-		
Sı	uh	1e	ct	IV	ρ
•	~~	, -		•	•

CASE ABSTRACT

Doctor:						
Student	В6					
Presentin	g complaint		В6		1	
Referral v	isit? N				- :	
Diagnosti	ics completed	prior to	visit: last s	een by	В6	

Signalment: 11 yo MN Pomeranian

bresented Friday for a sudden onset of weakness and ataxia. He ate normally this morning, got be bresented Friday for a sudden onset of weakness and ataxia. He ate normally this morning, got be been been been been been been bresented friday for a sudden onset of weakness and ataxia. He ate normally this morning, got been been been been been bresented Friday for a sudden onset of weakness and ataxia. He ate normally this morning, got breather bresented Friday for a sudden onset of weakness and ataxia. He ate normally this morning, got breather bre

-last appointment with IM 10/19 to recheck CBC/Chem/UA/BG curve (dx B6 at begining of October 2018)

B6

Current medications:

B6

Diet: dry

Vaccination status/flea & tick preventative use: UTD

Travel history: none

SUBJECTIVE: Adequate

Overnight Update: Patient has been eating and recieving his insulin overnight. No seizure-like activity witnessed. Vitals within normal limits, urinating okay. Patient still appears extremely lethargic with increased resp effort. Vomited food containing dose of pred in it - redosed.



OBJECTIVE:

B6

C/V: Grade II/VI murmur appreciated L>R, no arrhythmias, synchronous to femoral pulses bilaterally RESP: Increased respiratory effort with some abdominal component, will cough when exerted, Increased bronchovesicular sounds (harsh sounding) bilaterally, more so dorsally. No crackles appreciated.

B6

DIAGNOSTICS COMPLETED

5/14/18

- Cardio consult: Early compensated DMVD with a normal LA. Cough not suspected to be cardiac in origin.

10/3/18

1. TXR Conclusions:

B6

Client: Patient: **B6**

B6

B6

PLAN:

B6

TREATMENT:

B6

FLUID PLAN- none, euhydrated and eating.

MEDICATIONS

B6

Created by: Reviewed by

B6

Addendum 6 pm

-Added **B6**

- TXR: B6

Cardio consult: DCM, persistent MVD,

Client:	B6
Patient:	DO

SOAP Text Oct 23 2018 7:10AM - Clinician, Unassigned FHSA

CASE ABSTRACT
Doctor:
Student B6 Presenting complaint B6
Referral visit? N
Diagnostics completed prior to visit: last seen by IM 10/19/18
Signalment: 11 yo MN Pomeranian
Current history: R6 presented Friday for a sudden onset of weakness and ataxia. He ate normally this morning, got
B6 bkay. O came back from errands and found him sitting in urine, difficulty walking (ataxic) when
she moved him, staring in space with neck extended, responsive to O when she put him down and called him. Found
soft stool in house, unlike him. Was restless (getting up and down) in car, possibly regurgitating (no gagging or throwing
up). No c/s/v/d, normal e/d/u/d this past week. Activity level and behavior normal until this event.
Prior medical history:
B6
Current medications:
B6
Diet: dry
Vaccination status/flea & tick preventative use: UTD
Travel history: none
SUBJECTIVE: Adequate
B6
DU
B6

Client: B6		
OBJECTIVE:		
	B6	
Chi. Carda II hii aanaan		
C/V. Grade il Villiumur appre	Beciated L>R, no arrhythmias. Femoral pulses good bilaterally.	
DIAGNOSTICS COMPLETED <u>5/14/18</u> - Cardio consult: Early compen	sated DMVD with a normal LA. Cough not suspected to be cardiac in origin.	
	B6	
	ly static compared to the previous study, progressive compared to the 2016 study. No sation. Echocardiography can be considered for further evaluation as clinically indicated	d.
	B 6	
	B6	

B6

B6

B6

- 1. Echo:
- DMVD with now markedly decreased contractile function and moderately enlarged LA r/o diet related
- Soft tissue opacity within the LV walls r/o papillary muscle vs. mass

B6

4. Enrolled in DCM study

ASSESSMENT (Start with current problems (prioritize in list of importance), include historical problems; characterize if applicable, please update daily)

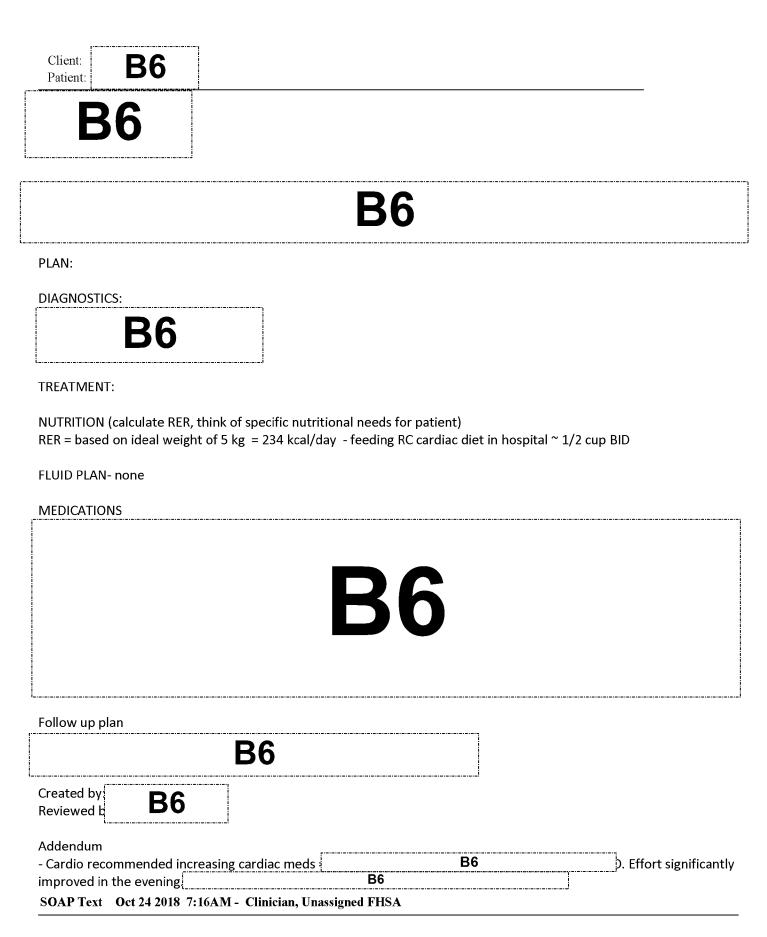
- CHF secondary DCM - suspect acquired DCM secondary to grain free/boutique diet MVD with left atrium enlargement

B6

Historical problems

B6

ry



Subjective

CASE ABSTRACT

Client: Patient: B6
Doctor:
Student: B6
Presenting complaint: B6
Referral visit? N
Diagnostics completed prior to visit: last seen by IM 10/19/18
Signalment: 11 yo MN Pomeranian
Current history: B6 presented B6 for a sudden onset of weakness and ataxia. He ate normally that morning, got
B6 okay. O came back from errands and found him sitting in urine, difficulty walking (ataxic) when
she moved him, staring in space with neck extended, responsive to O when she put him down and called him. Found
soft stool in house, unlike him. Was restless (getting up and down) in car, possibly regurgitating (no gagging or throwing
up). No c/s/v/d, normal e/d/u/d this past week. Activity level and behavior normal until this event.
Prior medical history:
-last appointment with IM 10/19 to recheck CBC/Chem/UA/BG curve (dx B6 at begining of October 2018)
Historical problems
B6
Current medications:
B6
Diet: dry
Vaccination status/flea & tick preventative use: UTD
Travel history: none
Traver history. Hone
SUBJECTIVE: Hydration - adequate
OVERNIGHT UPDATE: Patient did well overnight, off of O2. Vitals are within normal limits. Did not eat last night as per vital notes but tech saw him nibble a few bites of his food (also ate a few bites from me via finger this morning). Walked outside and urinated.
OBJECTIVE:
R6

Page 51/223

Client:	D6
Patient:	В

C/V: Grade II/VI murmur appreciated L>R, no arrhythmias. Femoral pulses strong bilaterally
RESP: Increased bronchovesciular sounds, no crackles or wheezes bilaterally. Increased respiratory effort with some

abdominal component, will cough when exerted.

B6

DIAGNOSTICS COMPLETED

5/14/18

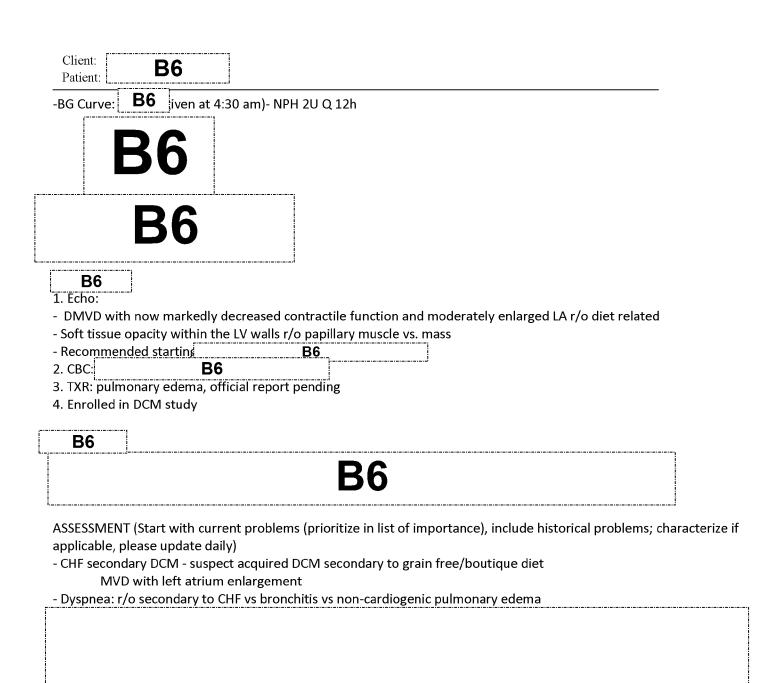
- Cardio consult: Early compensated DMVD with a normal LA. Cough not suspected to be cardiac in origin.

B6

- Mild generalized cardiomegaly static compared to the previous study, progressive compared to the 2016 study. No evidence of cardiac decompensation. Echocardiography can be considered for further evaluation as clinically indicated.

В6

B6



B6

CLINICAL IMPRESSION (Summary): Patient looks much more comfortable today with decreased respiratory effort than yesterday. Was off of the O2 cage overnight. Patient's appetite doesnt seem that great but is nibbling some food on/off. Patient went for a walk overnight and urinated which is improved from yesterday. His BUN and Creat have been climbing up since last Chemistry so renal profile is indiciated.

Client: B6		
DIAGNOSTICS:	,i	
B6		
TREATMENT:		
·	hink of specific nutritional needs for patie of 5 kg = 234 kcal/day - feeding RC card	•
FLUID PLAN None		
MEDICATIONS		
	DC	
	B6	
CREATED BY: D6		
REVIEWED B B6		
Addendum		
	B6	

SOAP Text Oct 25 2018 7:03AM - Clinician, Unassigned FHSA

Doctor: Student: B6 Presenting complaint B6 Referral visit? N

SubjectiveCASE ABSTRACT

Diagnostics completed prior to visit: last seen by IM 10/19/18

Client: Patient: B6
Signalment: 11 yo MN Pomeranian
Current history B6 presented B6 for a sudden onset of weakness and ataxia. He ate normally that morning, got
she moved him, staring in space with neck extended, responsive to O when she put him down and called him. Found soft stool in house, unlike him. Was restless (getting up and down) in car, possibly regurgitating (no gagging or throwing up). No c/s/v/d, normal e/d/u/d this past week. Activity level and behavior normal until this event.
Prior medical history: -last appointment with IM $10/19$ to recheck CBC/Chem/UA/BG curve (dx $B6$ at begining of October 2018)
Historical problems
B6
Current medications:
B6
Diet: dry Vaccination status/flea & tick preventative use: UTD Travel history: none
SUBJECTIVE: Hydration - adequate. Friendly, nervous
OVERNIGHT UPDATE: Patient was on O2 overnight (43%) and still had mild-moderate respiratory effort. Regurgitated some food during echo recheck yesterday evening. Patient doesn't appear to be as interested in his food overnight (waxing and waning appetite) - last decent meal was 8pm of last night. Drinking water okay. Vitals for the most part were WNL, however tachypnic at some points during the night. Walking a little bit when going outside, urinating okay. Back on O2 yeserday afternoon due to increased RE.
OBJECTIVE:

Client: **B6**

B6

B6

- Cardio consult: Early compensated DMVD with a normal LA. Cough not suspected to be cardiac in origin.

B6

- Mild generalized cardiomegaly static compared to the previous study, progressive compared to the 2016 study. No ...evidence of cardiac decompensation. Echocardiography can be considered for further evaluation as clinically indicated.

B6

B6

10/19/18

B6

10/21/18

Client: B6			
B6			
<u>10/22/18</u> 1. Echo:			
- DMVD with now markedly decreased of - Soft tissue opacity within the LV walls r			d LA r/o diet related
3. TXR: pulmonary edema, official report 4. Enrolled in DCM study	pending B6		
1. Recheck Echo: LA enlargement,still no	р РН.	В6	
ASSESSMENT (Start with current probler applicable, please update daily) A1: CHF secondary DCM - suspect acquir MVD with left atrium enlargeme	ed DCM secondary to		
A2: Dyspnea: r/o secondary to CHF vs br A3: Weakness/Ataxia: r/o secondary to I collapse			

B6

CLINICAL IMPRESSION (Summary): Patient is experiencing an increase in respiratory effort this morning even after being on O2 (43%) overnight. Back on O2 yesterday afternoon. Appetite has been waxing and waning for the last few hours. However, appears to be doing better at walking. Appetite may improve at home, however patient must stay in hospital until respiratory effort is at a reasonable plane. Repeat rads today to re-evaluate the lungs. Consider starting antibiotics if no improvement in RE.

DIAGNOSTICS:	
В6	

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Client:	B6
Patient:	DU

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NUTRITION (calculate RER, think of specific nutritional needs for patient)
RER = based on ideal weight of 5 kg = 234 kcal/day - feeding RC cardiac diet in hospital $\sim 1/2 \text{ cup BID}$

FLUID PLAN

None

MEDICATIONS	B6	
	DU	

CREATED BY:	D6	9
REVIEWED BY	DO	

Addendum			
		В6	
SOAP Text	В6	5:56AM - Clinician, Unassigned FHSA	

CASE ABSTRACT

Doctor:			
Student:	В6		
Presentin	g complaint:	 B6	
Referral v	/isit? N	 	

Diagnostics completed prior to visit: last seen by IM 10/19/18

Signalment: 11 yo MN Pomeranian

Current history B6 bresented B6

Current history B6 presented B6 for a sudden onset of weakness and ataxia. He ate normally that morning, got B6 pkay. O came back from errands and found him sitting in urine, difficulty walking (ataxic) when she moved him, staring in space with neck extended, responsive to O when she put him down and called him. Found soft stool in house, unlike him. Was restless (getting up and down) in car, possibly regurgitating (no gagging or throwing up). No c/s/v/d, normal e/d/u/d this past week. Activity level and behavior normal until this event.

Prior medical history:

-last appointment with IM 10/19 to recheck CBC/Chem/UA/BG curve (dx B6 at begining of October 2018) Historical problems

DIAGNOSTICS COMPLETED

B6 - Cardio consult: Early compensated DMVD with a normal LA. Cough not suspected to be cardiac in origin.

- Mild generalized cardiomegaly static compared to the previous study, progressive compared to the 2016 study. No

Client:
Patient

B6

evidence of cardiac decompensation. Echocardiography can be considered for further evaluation as clinically indicated.

B6

B6

B6

B6

- 1. Echo:
- DMVD with now markedly decreased contractile function and moderately enlarged LA r/o diet related

В6

B6

Client: B6	
1	
10/24/18:	
1. Recheck Echo: LA enlargement, still no PH.	В6
10/25/18:	
1. Recheck TXR: Mild improvement of pulmonary ede	ema. Mild interstitial pattern appreciated (possible pneumonia?).
	B6
ASSESSMENT	
 CHF secondary DCM - suspect acquired DCM second MVD with left atrium enlargement 	dary to grain free/boutique diet
- Dyspnea: r/o secondary to CHF vs interstitial pulmo	onary disease (PTE, pulmonary fibrosis)
- Pulmonary edema -r/o cardiogenic vs noncardiogen	nic (
- Interstitial pulmonary pattern: r/o redistribution of interstitial pattern on B6	pulmonary edema vs pneumonia (hospital acquired, given lack of
- Vomiting	
- Weakness/Ataxia: r/o secondary to DCM and decrea	ased cardiac output vs progression of bronchitis and tracheal
collapse	
	36
_	
_	
	36
-	

Client: Patient: B6	
5. B6	
TREATMENT:	
NUTRITION (calculate RER, think of specific nutritional needs for patient) RER = based on ideal weight of 5 kg = 234 kcal/day - feeding RC cardiac diet in hospital ~ 1/2 cup BID	
FLUID PLAN	
None, offer water to face q 4h	
MEDICATIONS	
Owner Meds	
Owner ivieus	
B6	
Dispensed in hospital	
B6	
Deshadowith and in 10.14 days Deshadol IIA and sulture at this time.	
 Recheck with cardio in 10-14 days. Recheck UA and culture at this time. Recheck with the cardiology service in 3 months (1/22/19) - FOR DCM STUDY 	
- Recheck with the cardiology service in 6 months (4/22/19) - FOR DCM STUDY	
CDEATED DV	
CREATED BY: B6	
r=====================================	
SOAP Text B6 8:56AM B6	
ICU DAILY SOAP B6	
11 yo MN Pomeranian, day 7 of hospitalization for DCM B6	
Current history: B6 for sudden onset of weakness and ataxia. Cardio consult diagnosed DCN	vI (on
free diet). Chest x-rays (repeat during stay) revealed interstitial pattern (edema vs pneumonia vs PTE vs fibro	
Persistent increased RR/RE and decreased oxygenation (confirmed on arterial blood gaz).	
Prior medical history:	
D.C.	<u> </u>
BO	

Client:
Patient:

B6

B6

SUBJECTIVE: Hydration - adequate. Friendly, nervous

OVERNIGHT UPDATE: Patient not on O2 overnight with persistent but stable mild effort overnight.

OBJECTIVE:

B6

C/V: Grade II/VI murmur appreciated, no arrhythmias. Femoral pulses good bilaterally

B6

DIAGNOSTICS COMPLETED

В6

- Cardio consult: Early compensated DMVD with a normal LA. Cough not suspected to be cardiac in origin.

B6

B6

d.

Client: **B6** Patient: **B6** 10/19/18 **B6** 10/21/18 **B6** 10/22/18 1. Echo: - DMVD with now markedly decreased contractile function and moderately enlarged LA r/o diet related - Soft tissue opacity within the LV walls r/o papillary muscle vs. mass **B6** 4. Enrolled in DCM study **B6 B6 B6 B6**

Page 64/223

B6

ASSESSMENT

- CHF secondary DCM suspect acquired DCM secondary to grain free/boutique diet MVD with left atrium enlargement
- Dyspnea with interstitial pattern: r/o secondary to CHF vs interstitial pulmonary disease (PTE, pulmonary fibrosis)
- Weakness/Ataxia: r/o secondary to DCM and decreased cardiac output vs progression of bronchitis and tracheal collapse

В6

PLAN

B6

- Recheck with the cardiology service in 3 months (1/22/19) FOR DCM STUDY
- Recheck with the cardiology service in 6 months (4/22/19) FOR DCM STUDY

CREATED BY

B6

Client: **B6**

Disposition/Recommendations

Client:	1
Patient:	1

-
 _
1

Cummings	
Veterinary Medical	46
AT TOTAL UNIVERSITY	

Lab Results Report

Client:	В6	i	
Veterinarian:			
Patient ID:	B6		
Visit ID:	toneren en en en en en en en		

Foster Hospital for Small Animals

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

Patient:	B6	
Species:	Canine	1
Breed:	Pomeranian	
Sex:	Male (Neutered)	
Age:	B6 Years Old	

CBC, Comprehensive, Sm Animal	5/14/2018 4:02:12 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)	20	11.9 - 15.2	
PLT(ADVIA)		173 - 486	K/uL
MPV (ADVIA)		8.29 - 13.2	fl
PLTCRT		0.129 - 0.403	%
RETIC(ADVIA)		0.2 - 1.6	%
RETICS (ABS) ADVIA		14.7 - 113.7	K/uI.

CBC, Comprehensive, Sm Animal	5/14/2018 4:02:28 PM	Accession ID: B6	
Test	Results	Reference Range	Units
GLUCOSE		67 - 135	mg/dL
UREA		8 - 30	mg/dL
CREATININE	DC	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
	68/223	B6	1

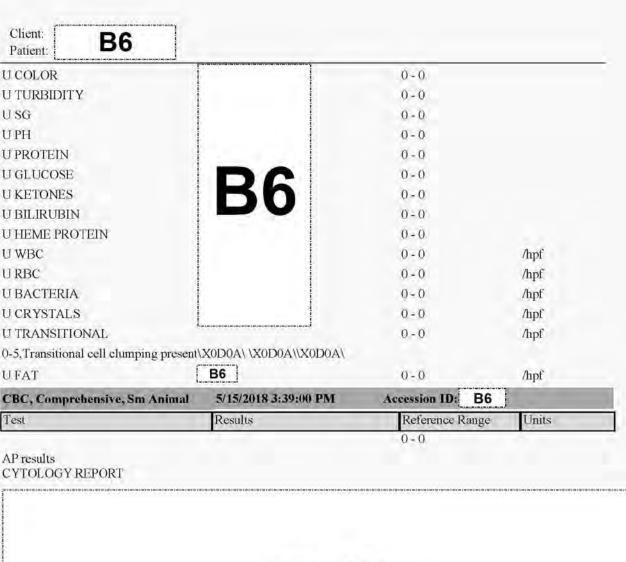
stringsort

LYMPHS%		7 - 47	%
SEGS%		43 - 86	%
Test	Results	Reference Range	Units
CBC, Comprehensive, Sm Animal	5/14/2018 4:02:08 PM	Accession ID: B6	and the second
Slight hemolysis, Slight lipemia		Same of the same	
COMMENTS (CHEMISTRY)	W. W	0 - 0	
OSMOLALITY (CALCULATED)		291 - 315	mmol/L
AMYLASE		409 - 1250	U/L
TRIGLYCERIDES		30 - 338	mg/dl
CHOLESTEROL		82 - 355	mg/dL
CK		22 - 422	U/L
AST		9 - 54	U/L
ALT		14 - 86	U/L
GGT		0 - 10	U/L
ALK PHOS		12 - 127	U/L
I BILIRUBIN		0 - 0.2	mg/dL
D.BILIRUBIN	DU	0 - 0.1	mg/dL
T BILIRUBIN	B6	0.1 - 0.3	mg/dL
NA/K		29 - 40	
AGAP		8 - 19	
ICO2 (BICARB)		14 - 28	mEq/L
POTASSIUM		3.7 - 5.4	mEq/L
CHLORIDE		106 - 116	mEq/L
SODIUM		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

CBC, Comprehensive, Sm Animal	5/14/2018 4:02:08 PM	Accession ID: B6	ji
Test	Results	Reference Range	Units
SEGS%		43 - 86	%
LYMPHS%		7 - 47	9/0
MONOS%		1 - 15	%
NRBC		0 - 1	/100 WBC
SEGS (AB)ADVIA	DC	2.8 - 11.5	K/ul
LYMPHS (ABS)ADVIA	B6	1 - 4.8	K/uL
MONOS (ABS)ADVIA		0.1 - 1.5	K/uL
WBC MORPHOLOGY		0 - 0	
Occasional reactive lymphocytes			
TARGET		0 - 0	
CBC, Comprehensive, Sm Animal	5/14/2018 4:02:15 PM	Accession ID: B6	
Test	Results	Reference Range	Units
U COLLECT		0 - 0	
Davids to the State of the Stat			

Urine - Catheterization

B6 69/223 stringion



B6

Cytologic Interpretation:

Suppurative inflammation with probable epithelial hyperplasia

Comments:

This inflammation may be due to infectious or noninfectious causes. Intercellular bacteria are not noted; those bacteria present are frequently associated with the squamous epithelial cells which may represent oropharyngeal contamination during acquisition of this fluid however aspiration pneumonia cannot be ruled out. Culture and sensitivity, if not yet already requested is recommended. The epithelial cells are most consistent with a hyperplastic population which would suggest some chronicity to the current respiratory issues.

B6 70/223 Printed Sunday, November 11, 2018

Page 70/223

Client: **B6** Patient: Electronically Signed by 5/15/2018@7:06 PM DVM **B6** Diplomate ACVP (Clinical Pathology) ()-(): AP results CYTOLOGY REPORT **B6** Cytologic Interpretation: Suppurative inflammation with probable epithelial hyperplasia Comments: This inflammation may be due to infectious or noninfectious causes. Intercellular bacteria are not noted; those bacteria present are frequently associated with the squamous epithelial cells which may represent oropharyngeal contamination during acquisition of this fluid however aspiration pneumonia cannot be ruled out. Culture and sensitivity, if not yet already requested is recommended. The epithelial cells are most consistent with a hyperplastic population which would suggest some chronicity to the current respiratory issues. Electronically Signed by 5/15/2018@7:06 PM B6 DVM Diplomate ACVP (Clinical Pathology) 0 - 0AP results CYTOLOGY REPORT **B6 B6** 71/223 stringion

Page 71/223

Client:	B6
Patient:	DU

B6

Cytologic Interpretation:

Suppurative inflammation with probable epithelial hyperplasia

Comments:

This inflammation may be due to infectious or noninfectious causes. Intercellular bacteria are not noted; those bacteria present are frequently associated with the squamous epithelial cells which may represent oropharyngeal contamination during acquisition of this fluid however aspiration pneumonia cannot be ruled out. Culture and sensitivity, if not yet already requested is recommended. The epithelial cells are most consistent with a hyperplastic population which would suggest some chronicity to the current respiratory issues.

Electronically Signed by 5/15/2018@7:06 PM

B6 , DVM

Diplomate ACVP (Clinical Pathology)

CBC, Comprehensive, Sm Animal	8/13/2018 12:51:08 PM	Accession ID: B6	
Test	Results	Reference Range	Units
WBC (ADVIA)	(MC MC m) as (MC m) as (M)	4.4 - 15.1	K/uL
RBC(ADVIA)		5.8 - 8.5	M/uL
HGB(ADVIA)		13.3 - 20.5	g/dL
HCT(ADVIA)	B6	39 - 55	%
MCV(ADVIA)	DU	64.5 - 77.5	fL.
MCH(ADVIA)		21.3 - 25.9	pg
MCHC(ADVIA)		31.9 - 34.3	g/dI.
RDW (ADVIA)		11.9 - 15.2	
COMMENTS (HEMATOLOGY)	biana analana analan	0 - 0	

>25 platelets/100x field (estimated count of >500,000/ul)

CBC, Comprehensive, Sm Animal	8/13/2018 12:51:09 PM	Accession ID: B6	
Test	Results	Reference Range	Units
SEGS%		43 - 86	%
LYMPHS%		7 - 47	%
MONOS%		1 - 15	%
EOS%	D.0	0 - 16	%
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
EOS (ABS)ADVIA		0 - 1.4	K/uL
WBC MORPHOLOGY	L	0 - 0	
No Morphologic Abnormalities			
TARGET	B6	0 - 0	
CBC, Comprehensive, Sm Animal	8/14/2018 10:16:00 AM	Accession ID: B6	120
Test	Results	Reference Range	Units
PRO LE ARREPOSTRETA LINIONE	in a manuscrip	0.0	

CBC, Comprehensive, Sm Animal	8/14/2018 10:16:00 AM	Accession ID: B6	
Test	Results	Reference Range	Units
FECAL CENTRIFUGATION	B6	0 - 0	

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 72/223	B6
	because received and received and are considered as a second

Client: **B6** h

CBC, Comprehensive, Sm Animal	8/21/2018 5:17:12 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)	The State of the State of Stat	64.5 - 77.5	fL
MCH(ADVIA)		21.3 - 25.9	pg
MCHC(ADVIA)	B6	31.9 - 34.3	g/dL
RDW (ADVIA)	Results B6 5:17:09 PM	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	<u>[</u>]	14.7 - 113.7	K/uL
CBC, Comprehensive, Sm Animal	B6 5:17:09 PM	Accession ID: B6	
Test	Results	Reference Range	Units
SEGS%		43 - 86	%
A SAND DESCRIPTION OF THE PROPERTY OF THE PROP		2.0	

CBC, Comprehensive, Sm Animal	B6 5:17:09 PM	Accession ID: B6	
Test	Results	Reference Range	Units
SEGS%	renatareneterereneterery	43 - 86	%
LYMPHS%		7 - 47	%
MONOS%		1 - 15	%
BANDS %		0 - 3	%
SEGS (AB)ADVIA	DC	2.8 - 11.5	K/ul
LYMPHS (ABS)ADVIA	B6	1 - 4.8	K/uL
MONOS (ABS)ADVIA		0.1 - 1.5	K/uL
BANDS (ABS) ADVIA		0 - 0.3	K/uL
TOXIC CHANGE		0 - 0	
RBC MORPHOLOGY		0 - 0	
No morphologic abnormalities	L		

CBC, Comprehensive, Sm Animal	B6	2:22:00 PM	Accession ID: B6	
Test	Results		Reference Range	Units

AP results CYTOLOGY REPORT

stringsoft

B6

73/223 **B6**

Client: **B6** Patient: **B6** Cytologic Interpretation: Neutrophilic inflammation Comments: The squamous cells could be present due to oropharyngeal contamination during sampling or aspiration. The findings are not typical of aspiration pneumonia, as only low numbers of bacteria are present. As the bacteria are extracellular, these could represent contaminating microorganisms rather than an infection. Electronically Signed by B6 @2:17 PM DVM, PhD, pathologist Diplomate ACVP (Clinical Pathology) 0 - 0 AP results CYTOLOGY REPORT **B6** Cytologic Interpretation: Neutrophilic inflammation Comments: The squamous cells could be present due to oropharyngeal contamination during sampling or aspiration. The findings are not typical of aspiration pneumonia, as only low numbers of bacteria are present. As the bacteria are extracellular, these could represent contaminating microorganisms rather than an infection. Electronically Signed by B6 @2:17 PM n, DVM, PhD, pathologist repromate ACVP (Clinical Pathology) 0-0 AP results CYTOLOGY REPORT **B6** 74/223 Printed Sunday, November 11, 2018

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Client: B6

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Cytologic Interpretation: Neutrophilic inflammation

Comments:

The squamous cells could be present due to oropharyngeal contamination during sampling or aspiration. The findings are not typical of aspiration pneumonia, as only low numbers of bacteria are present. As the bacteria are extracellular, these could represent contaminating microorganisms rather than an infection.

Electronically Signed by B6 D2:17 PM

B6 DVM, PhD, pathologist Diplomate ACVP (Clinical Pathology)

CBC, Comprehensive, Sm Animal	9/16/2018 1:54:17 PM	Accession ID: B6	
Test	Results	Reference Range	Units
U COLLECT		0 - 0	
U COLOR		0 - 0	
U TURBIDITY		0 - 0	
USG	B6	0 - 0	
UPH	BO	0 - 0	
U PROTEIN		0 - 0	
U GLUCOSE		0 - 0	
UKETONES		0 - 0	
U BILIRUBIN	1	0 - 0	
Negative Bilirubin up to 2+ may be normal high	ly concentrated urine.		
U HEME PROTEIN		0 - 0	
U WBC		0 - 0	/hpf
URBC		0 - 0	/hpf
U BACTERIA	DC	0 - 0	/hpf
U CRYSTALS	B6	0 - 0	/hpf
U TRANSITIONAL		0 - 0	/hpf
UFAT		0 - 0	/hpf
U DEBRIS		0 - 0	/hpf
COMMENTS (URINALYSIS)	L	0 - 0	

Less than 1 ml urine submitted, Protein may be increased due to the presence of heme proteins

CBC, Comprehensive, Sm Animal	9/16/2018 1:54:01 PM	Accession ID: B6	1.0
Test	Results	Reference Range	Units
U COLLECT	B6	0 - 0	
URINE CULTURE 24HR	Lianguaga ananananana	0 - 0	

culture to be sent to Idexx for identification and sensitivity

CBC, Comprehensive, Sm Animal	10/2/2018 4:22:12 PM	Accession ID: B6	
Test	Results	Reference Range	Units
	75/223	B6	

L....

WBC (ADVIA)	1	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	
ACH(ADVIA)		21.3 - 25.9	pg	
MCHC(ADVIA)	DC	31.9 - 34.3	g/dL	
ZDW (ADVIA)	B6	11.9 - 15.2	34	
LT(ADVIA)		173 - 486	K/uL	
MPV (ADVIA)		8.29 - 13.2	fl	
LTCRT		0.129 - 0.403	%	
ETIC(ADVIA)		0.2 - 1.6	%	
ETICS (ABS) ADVIA		14.7 - 113.7	K/uL	
BC, Comprehensive, Sm Animal	22:28 PM	Accession ID: B6		
Test	Results	Reference Range	Units	
GLUCOSE		67 - 135	mg/dL	
JREA		8 - 30	mg/dI.	
REATININE		0.6 - 2	mg/dL	
HOSPHORUS		2.6 - 7.2	mg/dL	
ALCIUM2		9.4 - 11.3	mg/dL	
AGNESIUM 2+		1.8 - 3	mEq/L	
PROTEIN		5.5 - 7.8	g/dL	
LBUMIN		2.8 - 4	g/dL	
LOBULINS		2.3 - 4.2	g/dL	
/G RATIO		0.7 - 1.6		
ODIUM		140 - 150	mEq/L	
HLORIDE		106 - 116	mEq/L	
OTASSIUM	B6	3.7 - 5.4	mEq/L	
CO2 (BICARB)		14 - 28	mEq/L	
GAP		8 - 19		
A/K		29 - 40		
BILIRUBIN		0.1 - 0.3	mg/dL	
BILIRUBIN.		0 - 0.1	mg/dL	
BILIRUBIN		0 - 0.2	mg/dL	
LK PHOS		12 - 127	U/L	
594 Result(s) verified				
GT		0 - 10	U/L	
LT		14 - 86	U/L	
ST		9 - 54	U/L	
K		22 - 422	U/L	

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CHOLESTEROL		82 - 355	mg/dL			
TRIGLYCERIDES	DC	30 - 338	mg/dl			
AMYLASE	B6	409 - 1250	U/L			
OSMOLALITY (CALCULATED)		291 - 315	mmol/L			
COMMENTS (CHEMISTRY)		0 - 0				
CBC, Comprehensive, Sm Animal	B6 4:22:13 PM	Accession ID: B6				
Test	Results	Reference Range	Units			
SEGS%		43 - 86	%			
LYMPHS%		7 - 47	%			
MONOS%		1 - 15	%			
NRBC		0 - 1	/100 WBC			
SEGS (AB)ADVIA		2.8 - 11.5	K/ul			
LYMPHS (ABS)ADVIA	B A	1 - 4.8	K/uL			
MONOS (ABS)ADVIA	B6	0.1 - 1.5	K/uL			
FOXIC CHANGE		0 - 0				
ANISOCYTOSIS		0 - 0				
FARGET		0-0				
H-J BODIES		0 - 0				
POLYCHROMASIA		0 - 0				
SCHISTOCYTES		0 - 0				
SPHEROCYTES		0-0				
CBC, Comprehensive, Sm Animal	B6 22:14 PM	Accession ID: B6	i Irr			
Test U COLLECT	Results	Reference Range 0 - 0	Units			
U COLOR		0-0				
U TURBIDITY		0-0				
U SG	DA	0-0				
U PH	B 6	0-0				
U PROTEIN		0-0				
U GLUCOSE		0 - 0				
U KETONES		0 - 0				
U BILIRUBIN	<u> </u>	0 - 0				
Negative Bilirubin up to 2+ may be normal high	ly concentrated urine.	0-0				
U HEME PROTEIN			n e			
U WBC	DO	0-0	/hpf			
ILDDG	B6	0 - 0 0 - 0	/hpf			
		(1 = ()	/hpf			
U RBC U BACTERIA			10.9			
		0 - 0 0 - 0	/hpf /hpf			

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Client: B6

CBC, Comprehensive, Sm Animal	В6	4:22:01 PM	Accession ID: B6	
Test	Results		Reference Range	Units
U COLLECT	B6		0 - 0	
URINE CULTURE 24HR			0 - 0	
culture to be sent to Idexx for identifica	ition and se	ensitivity		and a
CBC, Comprehensive, Sm Animal	B6	10:11:31 AM	Accession ID: B6	
Test	Results		Reference Range	Units
Blood Glucose (Glucometer) - FHSA	B6)		0 - 0	mg/dl
CBC, Comprehensive, Sm Animal	B6	2:01:53 PM	Accession ID: B6	
Test	Results		Reference Range	Units
Blood Glucose (Glucometer) - FHSA	_B6_J		0 - 0	mg/dl
CBC, Comprehensive, Sm Animal	B6	5:56:33 PM	Accession ID: B6	
Test	Results		Reference Range	Units
TS (FHSA)	DA		0 - 0	g/dl
PCV **	B6		0 - 0	%
TS (FHSA)		And the second second	0 - 0	g/dl
CBC, Comprehensive, Sm Animal	B6	5:56:51 PM	Accession ID: B6	-
Test	Results	(in the	Reference Range	Units
Blood Glucose (Glucometer) - FHSA	B6		0 - 0	mg/dl
CBC, Comprehensive, Sm Animal	B6	5:40:09 AM	Accession ID B6	
Test	Results		Reference Range	Units
Blood Glucose (Glucometer) - FHSA	B6		0 - 0	mg/dl
CBC, Comprehensive, Sm Animal	B6	9:31:51 AM	Accession ID: B6	
Test	Results		Reference Range	Units
Blood Glucose (Glucometer) - FHSA	B6)		0 - 0	mg/dl
CBC, Comprehensive, Sm Animal	B6	2:00:46 PM	Accession ID: B6	
Test	Results		Reference Range	Units
Blood Glucose (Glucometer) - FHSA	B6		0 - 0	mg/dl
CBC, Comprehensive, Sm Animal	B6	5:59:23 PM	Accession ID: B6	
Test	Results		Reference Range	Units
Blood Glucose (Glucometer) - FHSA	B6		0 - 0	mg/dl
CBC, Comprehensive, Sm Animal	B6	9:29:25 PM	Accession ID: B6]
Test	Results		Reference Range	Units
Blood Glucose (Glucometer) - FHSA	B6		0 - 0	mg/dl
CBC, Comprehensive, Sm Animal	B6	2:15:55 AM	Accession ID: B6	
Test	Results		Reference Range	Units
Blood Glucose (Glucometer) - FHSA	B6		0 - 0	mg/dl
CBC, Comprehensive, Sm Animal	B6	:04:37 AM	Accession ID: 389231	
		78/223	B6	1

Client:	DC
Patient:	B6

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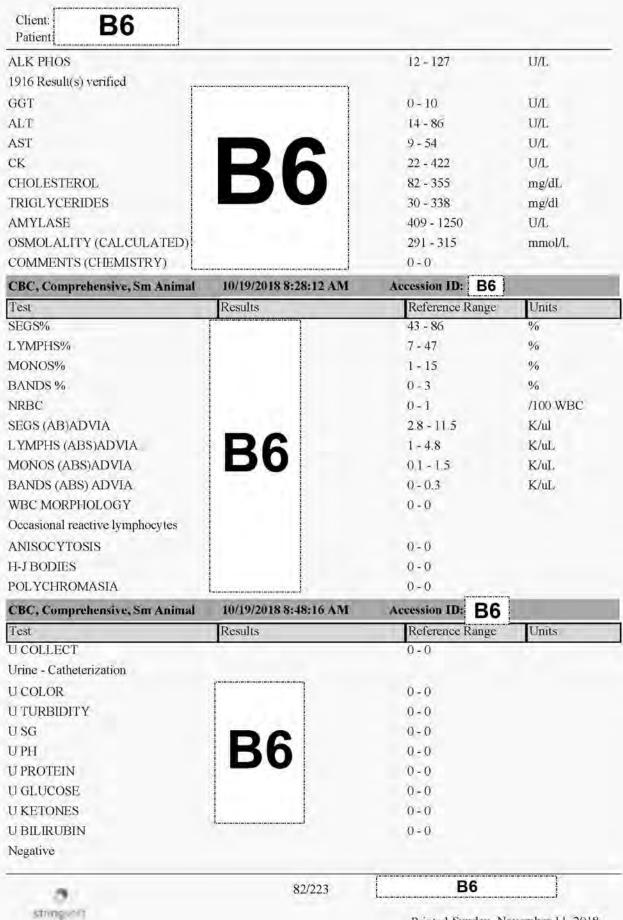
Test	Results		Reference Range	Units	
Blood Glucose (Glucometer) - FHSA	B6		0 - 0	mg/dl	
CBC, Comprehensive, Sm Animal	B6	10:31:19 AM	Accession ID: B6	6	
Test	Results		Reference Range	Units	
Blood Glucose (Glucometer) - FHSA	B6		0 - 0	mg/dl	
CBC, Comprehensive, Sm Animal	B6	10:31:13 AM	Accession ID: B6		
Test	Results		Reference Range	Units	
WBC (ADVIA)	Tomour and the second		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)	D	6	31.9 - 34.3	g/dL	
RDW (ADVIA)	В	U	11.9 - 15.2		
PLT(ADVIA)		-	173 - 486	K/uL	
MPV (ADVIA)			8.29 - 13.2	fl	
PLTCRT			0.129 - 0.403	0/0	
RETIC(ADVIA)			0.2 - 1.6	%	
RETICS (ABS) ADVIA			14.7 - 113.7	K/uL	
COMMENTS (HEMATOLOGY)			0 - 0		
CBC, Comprehensive, Sm Animal	B6	10:31:27 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	B6		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			8 - 19	1000	
NA/K			29 - 40		
T BILIRUBIN	ļ 		0.1 - 0.3	mg/dL	
		79/223	B6		

D.BILIRUBIN	(0)=(0)=(0)=(0)=(0)		0 - 0.1	mg/dL
BILIRUBIN			0 - 0.2	mg/dL
ALK PHOS			12 - 127	U/L
4518 QNS to verify results			15 157	O/L
GGT			0 - 10	U/L
ALT	DC		14 - 86	U/L
AST	B6		9 - 54	U/L
CK			22 - 422	U/L
CHOLESTEROL			82 - 355	mg/dL
FRIGLYCERIDES			30 - 338	mg/dl
AMYLASE			409 - 1250	U/L
OSMOLALITY (CALCULATED)			291 - 315	mmol/L
CBC, Comprehensive, Sm Animal	B6	10:31:13 AM	Accession ID:	B6
Test	Results		Reference Ra	
SEGS%	erar Bracacian attacket an area	Commence of the Commence of th	43 - 86	%
LYMPHS%			7 - 47	%
MONOS%			1 - 15	0/0
BANDS %			0 - 3	%
NRBC		į	0 - 1	/100 WBG
SEGS (AB)ADVIA			2.8 - 11.5	K/ul
YMPHS (ABS)ADVIA	B	5	1 - 4.8	K/uL
MONOS (ABS)ADVIA	D	U	0.1 - 1.5	K/uL
BANDS (ABS) ADVIA			0 - 0.3	K/uL
FOXIC CHANGE			0 - 0	
ANISOCYTOSIS			0 - 0	
H-J BODIES			0 - 0	
POIKILOCYTOSIS		Ì	0 - 0	
POLYCHROMASIA	-,		0 - 0	
CBC, Comprehensive, Sm Animal	B6	2:16:36 PM	Accession ID:	B6
l'est	Results		Reference Ra	inge Units
Blood Glucose (Glucometer) - FHSA	B6		0 - 0	mg/dl
CBC, Comprehensive, Sm Animal	B6	4:58:01 PM	Accession ID:	B6
Test	Results		Reference Ra	ange Units
			0 - 0	mg/dl
	B6		0 - 0	mg/dl
	<u>L</u>]	nove.	0 - 0	mg/dl
CBC, Comprehensive, Sm Animal	В6	2:51:01 PM	Accession ID:	B6
Test	Results		Reference R	
Blood Glucose (Glucometer) - FHSA	B6		0 - 0	mg/dl
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		80/223	B6	

Client: B6

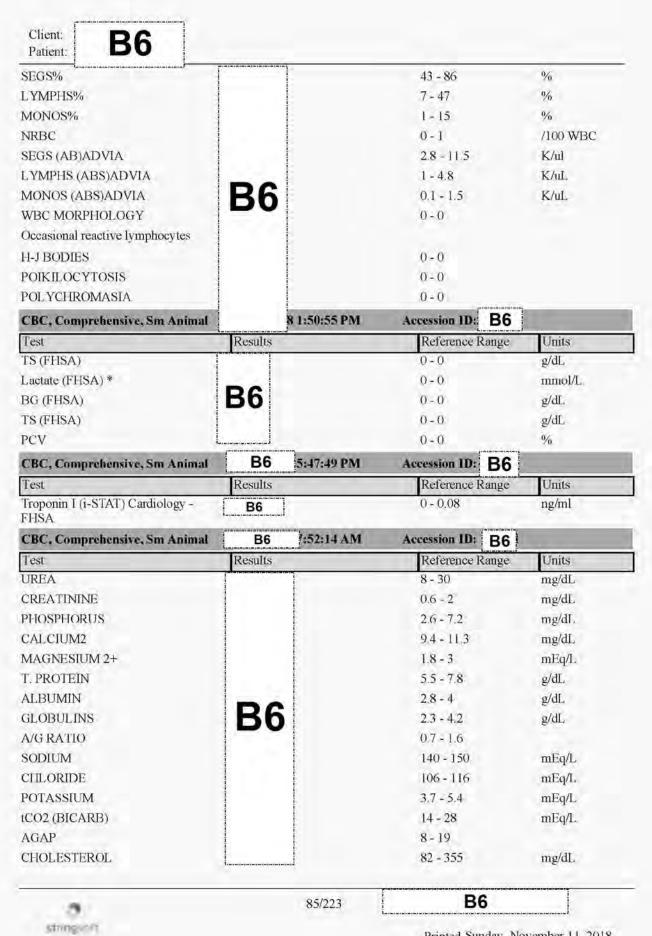
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CBC, Comprehensive, Sm Animal	10/19/2018 8:21:06 AM	Accession ID: B6			
Test	Results	Reference Range	Units		
Blood Glucose (Glucometer) - FHSA	B6	0 - 0	mg/dl		
CBC, Comprehensive, Sm Animal	10/19/2018 8:28:13 AM	Accession ID: B6			
Test	Results	Reference 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)	26	31.9 - 34.3	g/dL		
RDW (ADVIA)	B6	11.9 - 15.2			
PLT(ADVIA)		173 - 486	K/uL		
MPV (ADVIA)		8.29 - 13.2	fì		
PLTCRT		0.129 - 0.403	%		
RETIC(ADVIA)		0.2 - 1.6	%		
RETICS (ABS) ADVIA		14.7 - 113.7	K/uL		
COMMENTS (HEMATOLOGY)		0 - 0			
CBC, Comprehensive, Sm Animal	10/19/2018 8:28:28 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		
I. PROTEIN		5.5 - 7.8	g/dL		
ALBUMIN		2.8 - 4	g/dL		
GLOBULINS		2.3 - 4.2	g/dL		
A/G RATIO	B6	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			
T BILIRUBIN		0.1 - 0.3	mg/dL		
D.BILIRUBIN		0 - 0.1	mg/dL		
I BILIRUBIN	į	0 - 0.2	mg/dL		
AND ASSESSED OF THE PARTY OF TH					
Y Y			areas are		



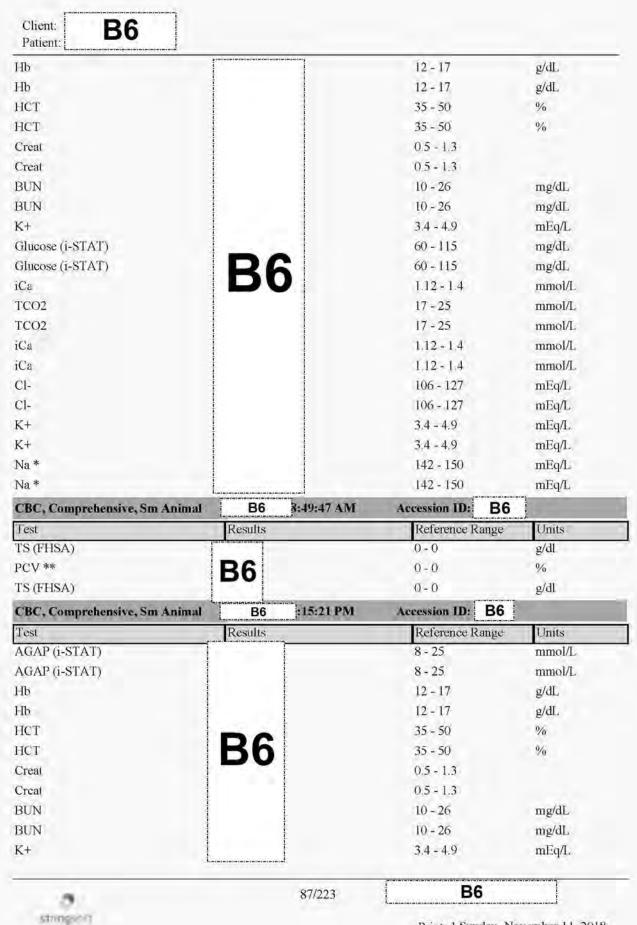
Bilirubin up to 2+ may be normal highly U HEME PROTEIN U WBC U RBC U BACTERIA U CRYSTALS U TRANSITIONAL U FAT U DEBRIS CBC, Comprehensive, Sm Animal Test URINE CULTURE 48HR no growth-negative urine culture CBC, Comprehensive, Sm Animal Test U COLLECT Urine - Catheterization URINE CULTURE 24HR CBC, Comprehensive, Sm Animal	B6 10/19/2018 8:48:00 AM Results	0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 Accession ID: B6	/hpf /hpf /hpf /hpf /hpf /hpf
U WBC U RBC U BACTERIA U CRYSTALS U TRANSITIONAL U FAT U DEBRIS CBC, Comprehensive, Sm Animal Test URINE CULTURE 48HR no growth-negative urine culture CBC, Comprehensive, Sm Animal Test U COLLECT Urine - Catheterization URINE CULTURE 24HR CBC, Comprehensive, Sm Animal	10/19/2018 8:48:00 AM	0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 Accession ID: B6	/hpf /hpf /hpf /hpf /hpf
U RBC U BACTERIA U CRYSTALS U TRANSITIONAL U FAT U DEBRIS CBC, Comprehensive, Sm Animal Test URINE CULTURE 48HR no growth-negative urine culture CBC, Comprehensive, Sm Animal Test U COLLECT Urine - Catheterization URINE CULTURE 24HR CBC, Comprehensive, Sm Animal	10/19/2018 8:48:00 AM	0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 Accession ID: B6	/hpf /hpf /hpf /hpf /hpf
U BACTERIA U CRYSTALS U TRANSITIONAL U FAT U DEBRIS CBC, Comprehensive, Sm Animal Test URINE CULTURE 48HR no growth-negative urine culture CBC, Comprehensive, Sm Animal Test U COLLECT Urine - Catheterization URINE CULTURE 24HR CBC, Comprehensive, Sm Animal	10/19/2018 8:48:00 AM	0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 Accession ID: B6	/hpf /hpf /hpf /hpf
U CRYSTALS U TRANSITIONAL U FAT U DEBRIS CBC, Comprehensive, Sm Animal Test URINE CULTURE 48HR no growth-negative urine culture CBC, Comprehensive, Sm Animal Test U COLLECT Urine - Catheterization URINE CULTURE 24HR CBC, Comprehensive, Sm Animal	10/19/2018 8:48:00 AM	0 - 0 0 - 0 0 - 0 0 - 0 Accession 1D: B6	/hpf /hpf /hpf
U TRANSITIONAL U FAT U DEBRIS CBC, Comprehensive, Sm Animal Test URINE CULTURE 48HR no growth-negative urine culture CBC, Comprehensive, Sm Animal Test U COLLECT Urine - Catheterization URINE CULTURE 24HR CBC, Comprehensive, Sm Animal	10/19/2018 8:48:00 AM	0 - 0 0 - 0 0 - 0 Accession ID: B6	/hpf /hpf
U FAT U DEBRIS CBC, Comprehensive, Sm Animal Test URINE CULTURE 48HR no growth-negative urine culture CBC, Comprehensive, Sm Animal Test U COLLECT Urine - Catheterization URINE CULTURE 24HR CBC, Comprehensive, Sm Animal	TOTAL CONTROL OF THE PARTY OF T	0 - 0 0 - 0 Accession ID: B6	/hpf
CBC, Comprehensive, Sm Animal Test URINE CULTURE 48HR no growth-negative urine culture CBC, Comprehensive, Sm Animal Test U COLLECT Urine - Catheterization URINE CULTURE 24HR CBC, Comprehensive, Sm Animal	TOTAL CONTROL OF THE PARTY OF T	0 - 0 Accession ID: B6	1,174
CBC, Comprehensive, Sm Animal Test URINE CULTURE 48HR no growth-negative urine culture CBC, Comprehensive, Sm Animal Test U COLLECT Urine - Catheterization URINE CULTURE 24HR CBC, Comprehensive, Sm Animal	TOTAL CONTROL OF THE PARTY OF T	Accession ID: B6	/hpf
Test URINE CULTURE 48HR no growth-negative urine culture CBC, Comprehensive, Sm Animal Test U COLLECT Urine - Catheterization URINE CULTURE 24HR CBC, Comprehensive, Sm Animal	TOTAL CONTROL OF THE PARTY OF T	Limitalianian	
URINE CULTURE 48HR no growth-negative urine culture CBC, Comprehensive, Sm Animal Test U COLLECT Urine - Catheterization URINE CULTURE 24HR CBC, Comprehensive, Sm Animal	Results	Reference Dance	-
CBC, Comprehensive, Sm Animal Test U COLLECT Urine - Catheterization URINE CULTURE 24HR CBC, Comprehensive, Sm Animal		The second secon	Units
CBC, Comprehensive, Sm Animal Test U COLLECT Urine - Catheterization URINE CULTURE 24HR CBC, Comprehensive, Sm Animal		0 - 0	
Test U COLLECT Urine - Catheterization URINE CULTURE 24HR CBC, Comprehensive, Sm Animal	10/19/2018 8:48:01 AM	Accession III B6	
U COLLECT Urine - Catheterization URINE CULTURE 24HR CBC, Comprehensive, Sm Animal	Results	Reference Range	Units
URINE CULTURE 24HR CBC, Comprehensive, Sm Animal	I months on the second of the	0 - 0	11 300000
CBC, Comprehensive, Sm Animal	B6		
C MANAGEMENT CONTRACTOR CONTRACTO	DU	0 - 0	
	10/19/2018 10:00:13 AM	Accession ID: B6	
Test	Results	Reference Range	Units
Blood Glucose (Glucometer) - FHSA	B6	0 - 0	mg/dl
CBC, Comprehensive, Sm Animal	10/19/2018 12:03:04 PM	Accession ID: B6	
Test	Results	Reference Range	Units
Blood Glucose (Glucometer) - FHSA	B6	0 - 0	mg/dl
CBC, Comprehensive, Sm Animal	10/19/2018 2:08:11 PM	Accession ID: B6	
Test	Results	Reference Range	Units
Blood Glucose (Glucometer) - FHSA	B6	0 - 0	mg/dl
CBC, Comprehensive, Sm Animal	10/21/2018 5:12:25 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)	DC	3.6 - 4.8	mmol/L
CL(POC)	B6	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
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Client: B6				
BUN (POC)		12 - 28	mg/dL	
CREAT (POC)		0.2 - 2.1	mg/dL	
TCO2 (POC)		0 - 0	mmol/L	
nCA		0 - 0	mmol/L	
nMG		0 - 0	mmol/L	
GAP		0 - 0	mmol/L	
CA/MG		0 - 0	mol/mol	
BEecf		0 - 0	mmol/L	
ВЕЬ	DC	0 - 0	mmol/L	
A	B6	0 - 0	mmHg	
NOVA SAMPLE		0 - 0		
FiO2		0 - 0	9/6	
PCO2		36 - 44	mmHg	
PO2		80 - 100	mmI Ig	
PH		7.337 - 7.467		
PCO2		36 - 44	mmHg	
PO2		80 - 100	mmHg	
HCO3		18 - 24	mmol/L	
CBC, Comprehensive, Sm Animal	B6 5:20:56 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 1:50:12 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)	DC	21.3 - 25.9	pg	
MCHC(ADVIA)	B6	31.9 - 34.3	g/dL	
RDW (ADVIA)		11.9 - 15.2	201.5	
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 1:50:10 PM	Accession ID: B6	-	
Test		Reference Range	Units	



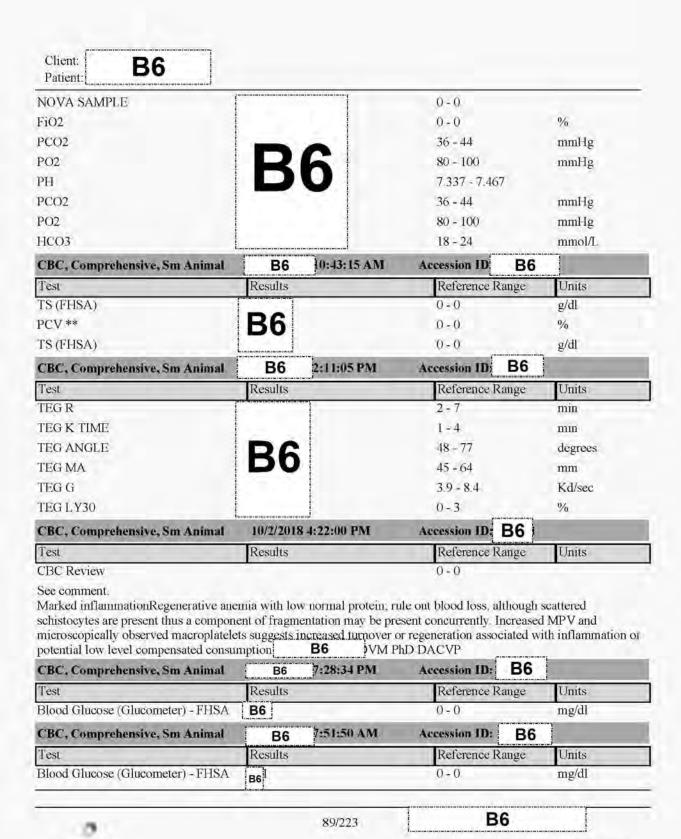
Client: B6

CBC, Comprehensive, Sm Animal	B6	7:55:35 AM	Accession ID: B6	
Test	Results	a (au È	Reference Range	Units
TS (FHSA)			0 - 0	g/dl
PCV **	B6		0 - 0	%
TS (FHSA)			0 - 0	g/dl
CBC, Comprehensive, Sm Animal	B6	:10:43 PM	Accession ID: B6	
Test	Results		Reference Range	Units
AGAP (i-STAT)			8 - 25	mmol/L
AGAP (i-STAT)			8 - 25	mmol/L
Hb			12 - 17	g/dL
Hb			12 - 17	g/dL
HCT			35 - 50	%
HCT			35 - 50	%
Creat			0.5 - 1.3	
Creat			0.5 - 1.3	
BUN			10 - 26	mg/dL
BUN			10 - 26	mg/dL
K+			3.4 - 4.9	mEq/L
Glucose (i-STAT)	DC		60 - 115	mg/dL
Glucose (i-STAT)	B6		60 - 115	mg/dL
iCa	1		1.12 - 1.4	mmol/L
TCO2			17 - 25	mmol/L
TCO2			17 - 25	mmol/L
iCa			1.12 - 1.4	mmol/L
iCa			1.12 - 1.4	mmol/L
CI-			106 - 127	mEq/L
CI-			106 - 127	mEq/L
K+			3.4 - 4.9	mEq/L
K+			3.4 - 4.9	mEq/L
Na *			142 - 150	mEq/L
Na *			142 - 150	mEq/L
CBC, Comprehensive, Sm Animal	B6	8:14:24 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	8:48:45 AM	Accession ID B6	
Test	Results		Reference Range	Units
AGAP (i-STAT)	В6		8 - 25	mmol/L
AGAP (i-STAT)			8 - 25	mmol/L
		86/223	B6	
0		CAAIOO	L. Du	



Glucose (i-STAT)			60 - 130	mg/dL
Glucose (i-STAT)			60 - 130	mg/dL
iCa			1.12 - 1.4	mmol/L
TCO2	İ		17 - 25	mmol/L
TCO2			17 - 25	mmol/L
iCa			1.12 - 1.4	mmol/L
iCa	B6	1	1.12 - 1.4	mmol/L
C1-		1	106 - 127	mEq/L
CI-		1	106 - 127	mEq/L
K+	į		3.4 - 4.9	mEq/L
K+			3.4 - 4.9	mEq/L
Na *	į		142 - 150	mEq/L
Na *			142 - 150	mEq/L
CBC, Comprehensive, Sm Animal	B6	1:20:51 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	10/26/2018	10:36:25 AM	Accession ID B	3
Test	Results		Reference Range	
SO2%			94 - 100	%
HCT (POC)			38 - 48	%
HB (POC)			12.6 - 16	g/dL
VA (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	B6		0 - 2	mmol/L
BUN (POC)	טע		12 - 28	mg/dL
CREAT (POC)			0.2 - 2.1	mg/dL
TCO2 (POC)			0 - 0	mmol/L
nCA			0 - 0	mmol/L
nMG			0 - 0	mmol/L
GAP			0 - 0	mmol/L
CA/MG			0 - 0	mol/mol
BEecf			0 - 0	mmol/L
BEb			0 - 0	mmol/L
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Client: **B6**Patient:

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Client: B6

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Client: **B6**B6

Client: Patient: B6

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Client: Patient: **B6**

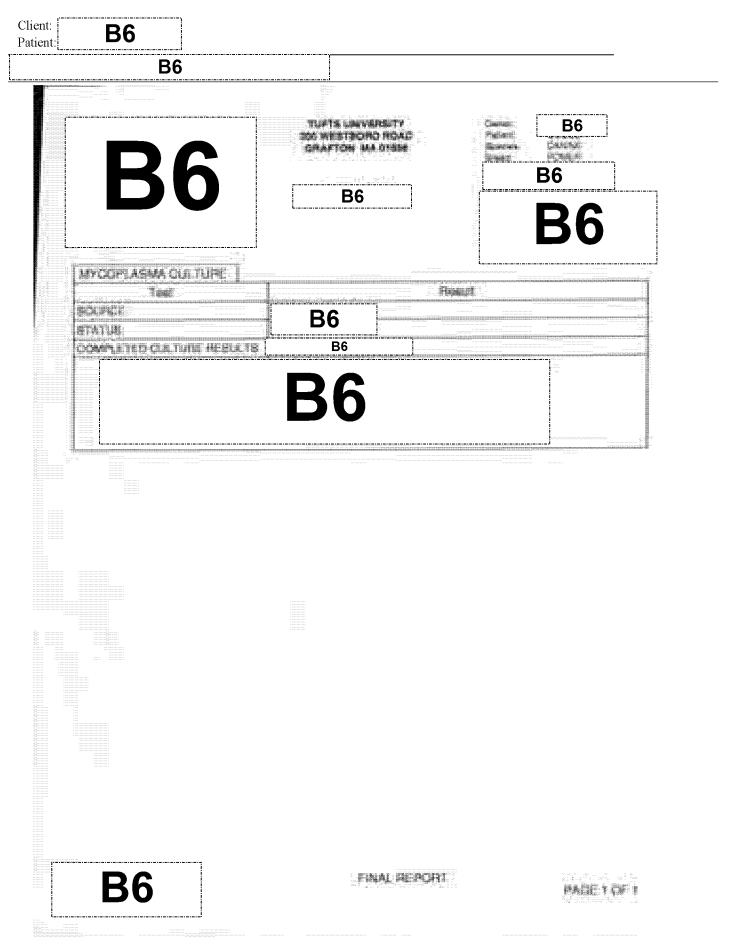
B6

Client: Patient: **B6**

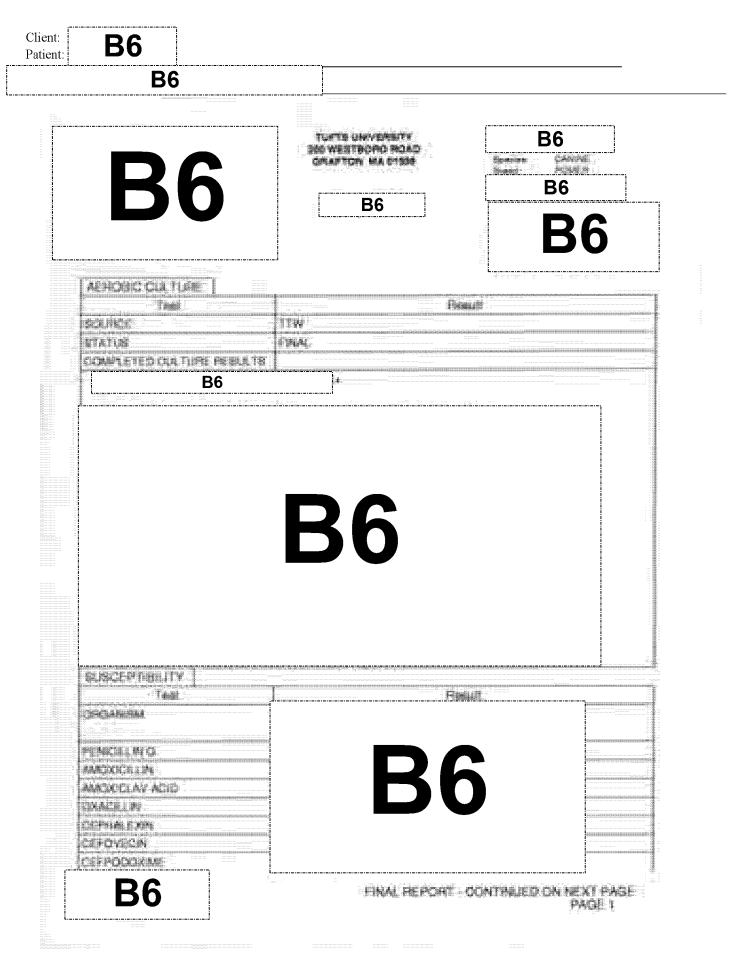
B6

B6

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Client: Patient **B6**

B6

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B6

FINAL REPORT

PAGE # OF #

Client: **B6**B6

Client: Patient:

B6

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Total Connects Comment School of Comment Marine

Client: Patient: B6
B6

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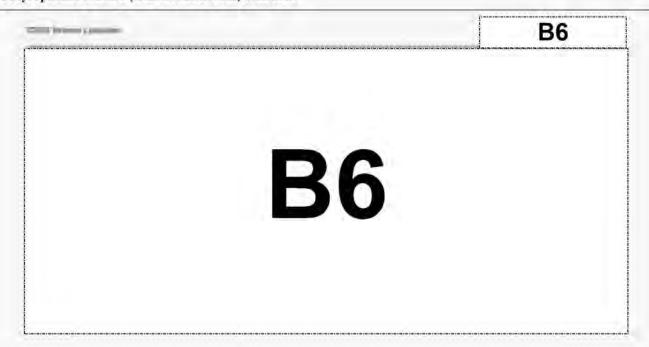
IDEXX Aerobic Culture 8/22/18

IDEXX Aerobic Culture 8/22/18

IDEXX Aerobic & Anaerobic Culture 8/18/18

IDEXX Aerobic & Anaerobic Culture 8/18/18

IDEXX Mycoplasma Culture (transtracheal wash) 8/22/2018



Client: Patient:

B6

Lab Results IDEXX Urine cult & Suscep 9/18/18

Client: Patient: **B6**

Lab Results IDEXX Urine cult & Suscep 9/18/18

IDEXX Urine Cult & Suscep 9/18/18

IDEXX Urine Cult & Suscep 9/18/18

Client: Patient **B6**

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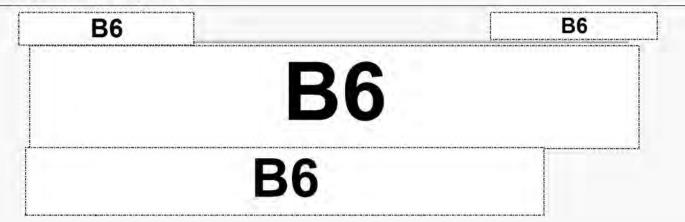




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IDEXX Urine Cult & Suscep 10/3/18



IDEXX Urine Cult & Suscep 10/3/18



Lab Results IDEXX CARDIOPET proBNP 10/23/18

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5:45:50 AM	
5:45:51 AM	

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Client: Patient:

B6

Vitals Results

6:45:52 AM 6:45:53 AM 6:45:54 AM 9:34:50 AM 9:34:57 AM 9:39:53 AM 11:44:31 AM 1:23:59 PM 1:24:16 PM 1:36:21 PM 3:59:50 PM 4:10:37 PM 4:22:11 PM 4:30:51 PM 5:01:21 PM 7:09:50 PM 7:09:59 PM 7:14:13 PM **B6** 7:14:22 PM **B6** 8:03:40 PM 9:13:08 PM 9:21:37 PM 9:52:24 PM 10:30:14 PM 11:19:18 PM 1:46:33 AM 1:46:52 AM 1:49:25 AM 3:31:45 AM 3:34:45 AM 5:34:39 AM 6:02:56 AM 7:49:47 AM 7:49:58 AM 7:50:07 AM 7:50:28 AM 7:50:52 AM 9:10:28 AM

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B6

Vitals Results

9:11:50 AM 10:59:40 AM 11:07:08 AM 1:24:19 PM 1:24:20 PM 1:24:21 PM 5:27:41 PM 8:41:33 PM 8:41:59 PM 8:43:04 PM 8:45:51 PM 8:45:58 PM 8:46:18 PM 9:27:26 PM 10:07:16 PM 11:35:58 PM 11:37:13 PM **B6** 11:37:22 PM 1:26:46 AM **B6** 1:26:56 AM 1:28:09 AM 3:35:52 AM 3:42:22 AM 3:42:30 AM 3:42:43 AM 3:42:57 AM 5:53:36 AM 7:30:53 AM 7:31:18 AM 7:31:31 AM 9:09:43 AM 12:13:35 PM 12:41:28 PM

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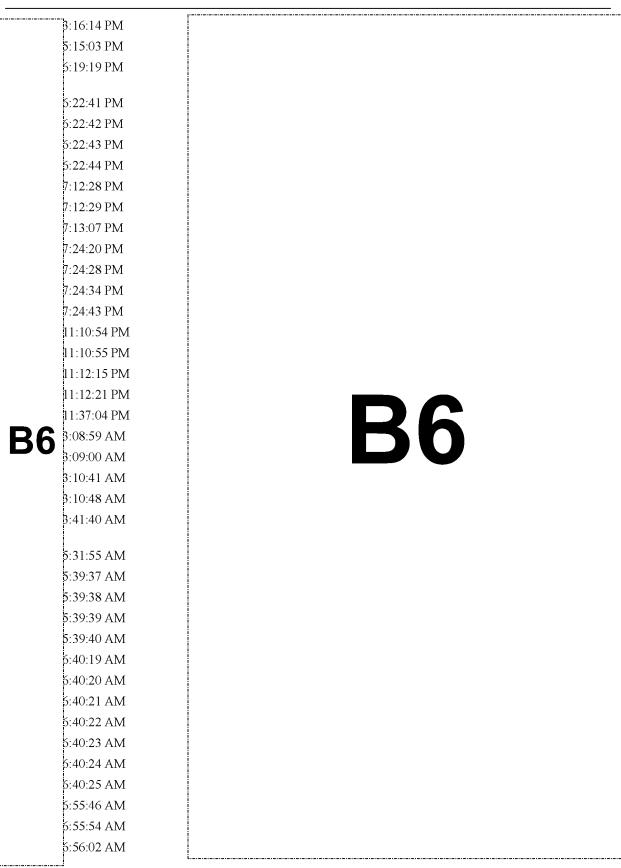
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         3:15:37 PM
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5:56:15 AM 5:56:30 AM 7:17:42 AM 10:40:52 AM 11:02:35 AM 11:09:05 AM 11:47:37 AM 11:48:32 AM :06:04 PM 1:06:24 PM 1:54:11 PM 1:54:16 PM 3:22:25 PM 3:22:26 PM 3:22:53 PM 3:30:38 PM 3:30:49 PM 1:00:39 PM 5:59:38 PM **B6** 5:08:32 PM **B6** 5:08:33 PM 5:08:34 PM 5:08:35 PM 5:11:21 PM 7:49:25 PM 7:49:26 PM 7:49:46 PM 7:49:55 PM 7:58:02 PM 7:58:11 PM 9:12:28 PM 9:12:40 PM 29:04 PM 10:12:57 PM 11:12:50 PM 11:12:51 PM 11:13:08 PM 11:13:16 PM 11:46:11 PM 1:46:40 PM

12:25:14 AM 1:32:08 AM 1:32:09 AM 1:32:32 AM 2:16:10 AM 3:22:16 AM 3:22:17 AM 3:22:40 AM 3:22:50 AM 3:45:10 AM 3:47:08 AM 5:11:55 AM 5:15:33 AM 5:21:23 AM 6:00:16 AM 6:04:07 AM 6:04:08 AM 6:04:09 AM **B6** 6:04:10 AM **B6** 6:32:32 AM 6:32:47 AM 6:33:06 AM 6:33:19 AM 6:56:24 AM 6:56:25 AM 6:56:26 AM 6:56:27 AM 6:56:28 AM 6:56:29 AM 6:56:30 AM 8:06:50 AM 8:07:05 AM 8:07:21 AM 9:04:10 AM 9:04:21 AM 11:13:08 AM 11:17:46 AM 11:17:47 AM 11:36:45 AM 11:36:56 AM

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Client: Patient:

B6

Vitals Results

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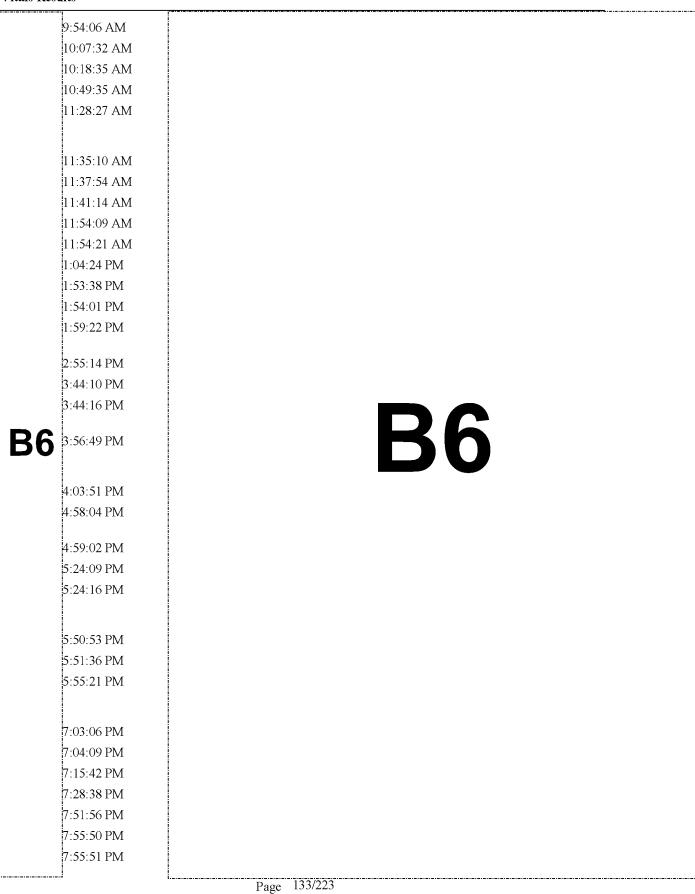
Page 131/223

Client:
Patient:

Vitals Results

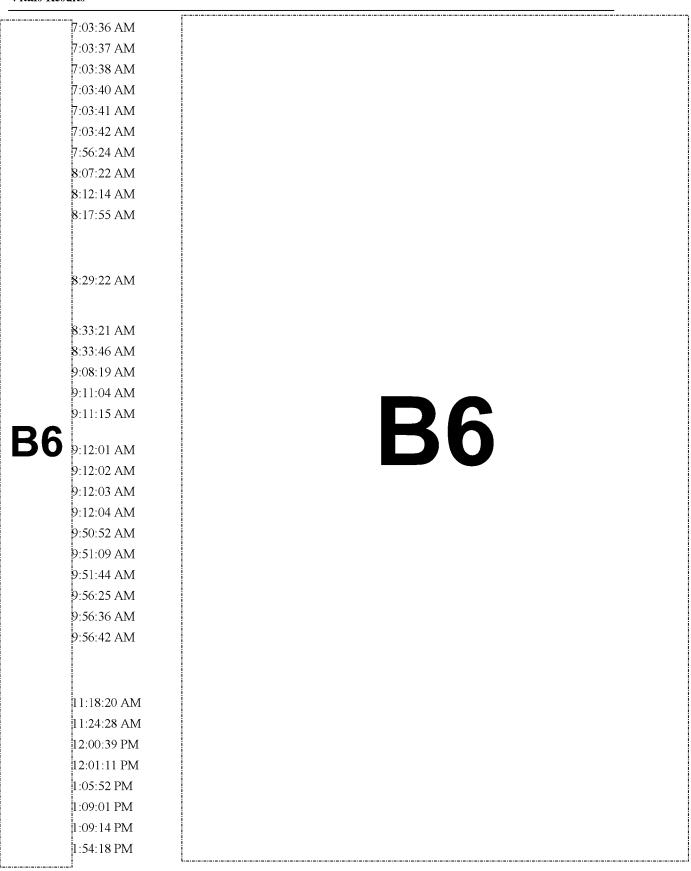
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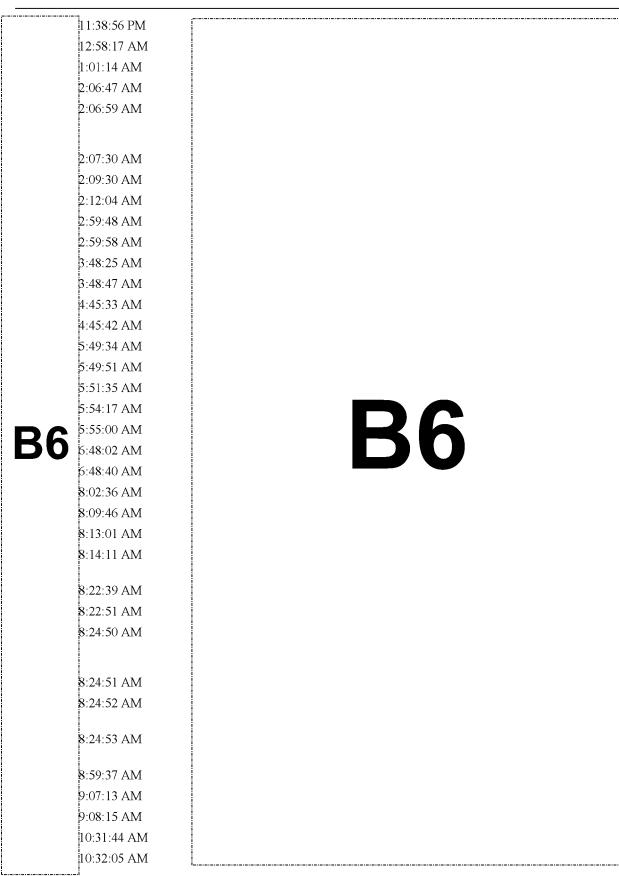
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12:00:43 AM 12:06:57 AM 12:07:26 AM 12:52:32 AM 1:08:21 AM 1:52:50 AM 4:22:15 AM 4:50:01 AM 5:40:22 AM 5:57:07 AM 6:06:03 AM 6:13:19 AM		

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Client: Patient:

B6

Patient History

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Client:	
Patient:	

Patient History

04:52 PM	Treatment	
04:52 PM	Vitals	
04:52 PM	Vitals	
05:58 PM	Treatment	
06:01 PM	Treatment	
06:01 PM	Vitals	
06:55 PM	Treatment	
06:55 PM	Vitals	
06:58 PM	Treatment	
06:58 PM	Treatment	
06:58 PM	Vitals	
07:04 PM	Purchase	
07:46 PM	Treatment	
08:45 PM	Vitals	
09:41 PM	Treatment	
09:41 PM	Vitals	
11:11 PM	Treatment	
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11:16 PM	Treatment	
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03:19 AM	Treatment	
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04:07 AM	Purchase	
05:16 AM	Treatment	
05:17 AM	Vitals	
05:20 AM	Treatment	
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06:45 AM	Vitals	

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Patient History

	06:45 AM	Vitals	
	06:45 AM	Vitals	
	07:47 AM	Treatment	
	08:15 AM	Treatment	
	08:15 AM	Treatment	
	08:40 AM	Prescription	
	09:33 AM	Prescription	
	09:34 AM	Treatment	
	09:34 AM	Vitals	
	09:34 AM	Treatment	
	09:34 AM	Vitals	
	09:39 AM	Treatment	
	09:39 AM	Treatment	
	09:39 AM	Vitals	
	10:07 AM	Treatment	
	10:24 AM	Purchase	
	11:08 AM	Treatment	
	11:22 AM	Treatment	
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DC	11:33 AM	Purchase	
B6	11:44 AM	Treatment	B6
	11:44 AM	Vitals	
	11:45 AM	Treatment	
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	01:23 PM	Vitals	
	01:24 PM	Treatment	
	01:24 PM 01:36 PM	Vitals	
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	04:13 PM	Purchase	
	04:22 PM	Treatment	
	04:22 PM	Vitals	
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Patient History

04:30 I	PM Vitals	
05:01 I		
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07:09 I		
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97:14 I	PM Vitals	
07:14 I	PM Treatment	
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07:17 I	PM Treatment	
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03:31 /	AM Vitals	
03:34 /	AM Treatment	
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Client:
Patient:

)5:34 AM)5:34 AM	Treatment Vitals	
)6:02 AM	Vitals	
)7:17 AM	Treatment	
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)6:47 PM	Purchase	
)2:15 PM	Prescription	
1:02 AM	Prescription	
)4:35 PM	Prescription	
)4:35 PM	Purchase	
2:54 PM	Appointment	
)4:57 PM	Prescription	
)5:00 PM	Purchase	
1:07 AM	Vitals	
1:46 AM	UserForm	

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Patient:	j	
Patient History		
11:53 AM	Treatment	
12:24 PM	UserForm	
12:27 PM	Purchase	
12:27 PM	Treatment	
12:51 PM	Purchase	
01:06 PM	Purchase	
01:00 PM	Prescription	
01:09 PM	Purchase	
10:15 AM	Email	
10:15 AM	Purchase	
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10:16 AM	Purchase	
01:24 PM	Vitals	
01:24 PM	Vitals	
01:24 PM	Vitals	
04:04 PM	UserForm	
05:17 PM	Purchase	
05:27 PM	Vitals	
05:30 PM	Purchase	
05:37 PM	Purchase	
07:18 PM	Treatment	
07:22 PM	UserForm	
07:26 PM	Prescription	DC
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08:41 PM	Treatment	
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08:46 PM	Treatment	
08:46 PM	Vitals	
08:53 PM	Purchase	
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09:27 PM	Treatment	
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Vitals

09:27 PM

	P	atient	History
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09:29 PM	Treatment	
10:07 PM	Treatment	
10:07 PM	Vitals	
11:35 PM	Treatment	
11:35 PM	Vitals	
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11:37 PM	Vitals	
01:26 AM	Treatment	
01:26 AM	Vitals	
01:26 AM	Treatment	
01:26 AM	Vitals	
01:27 AM	Purchase	
01:28 AM	Vitals	
01:28 AM	Purchase	
03:35 AM	Treatment	
03:35 AM	Vitals	
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07:31 AM	Treatment	
07:31 AM	Vitals	
07:31 AM	Treatment	
07:31 AM	Vitals	
08:14 AM	Purchase	
08:27 AM	Purchase	
09:09 AM	Treatment	
09:09 AM	Vitals	
09:16 AM	Purchase	
10:19 AM	Purchase	
10:46 AM	Prescription	
11:08 AM	Prescription	
12:08 PM	Purchase	
12:13 PM	Vitals	

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Client:
Patient

Patient History

	12:23 PM	Purchase	
	12:24 PM	Purchase	
	12:39 PM	Purchase	
	12:39 PM	Purchase	
	12:41 PM	Treatment	
	12:41 PM	Treatment	
	12:41 PM	Vitals	
	01:45 PM	Treatment	
	01:54 PM	UserForm	
	01:59 PM	Treatment	
	01:59 PM	Vitals	
	02:19 PM	Prescription	
	02:21 PM	Prescription	
	03:32 PM	Treatment	
) 3:50 PM	Treatment	
	03:50 PM	Vitals	
	03:51 PM	Treatment	
	03:51 PM	Vitals	
DC	05:55 PM	Treatment	B6
B6	05:55 PM	Vitals	
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	05:55 PM	Vitals	
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	08:13 PM	Treatment	
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	08:15 PM	Treatment	
	08:15 PM	Vitals	
	08:16 PM	Purchase	
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Client:
Patient

Patient History

	9:15 PM	Treatment	
	9:15 PM	Vitals	
	9:17 PM	Treatment	
	9:17 PM	Vitals	
	9:52 PM	Treatment	
	9:52 PM	Treatment	
	9:52 PM	Vitals	
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	9:52 PM	Vitals	
	0:38 PM	Treatment	
	0:39 PM	Treatment	
	0: 3 9 PM	Vitals	
	0:39 PM	Treatment	
	0:39 PM	Vitals	
	0:40 PM	Treatment	
	1:20 PM	Treatment	
	1:20 PM	Vitals	
	1:42 PM	Treatment	
	1:42 PM	Vitals	
	2:43 AM	Treatment	
	2:45 AM	Treatment	
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	1:41 AM	Treatment	
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	3:18 AM	Vitals	
	3:49 AM	Treatment	
	3:49 AM	Vitals	
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	5:12 AM	Treatment	
	5:12 AM	Vitals	
	5:13 AM	Treatment	
	5:13 AM	Vitals	
	5:18 AM	Treatment	
	5:57 AM	Treatment	
	5:57 AM	Vitals	

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Client:
Patient

Patient History

	·52 AN4	Tractment	
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09	:13 AM	Treatment	
09	:13 AM	Vitals	
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i		Prescription	
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Client: Patient: **B6**

Patient History

	3 02:54 PM	Treatment	
	3 02:55 PM	Treatment	
	3 02:55 PM	Vitals	
	3 03:44 PM	Treatment	
	3 03:44 PM	Vitals	
	3 05:16 PM	Email	
	3 06:21 PM	Prescription	
	3 06:22 PM	Purchase	
	3 02:26 PM	Appointment	
	3 11:41 AM	UserForm	
	8 11:42 AM	UserForm	
	8 11:44 AM	Prescription	
	3 11:54 AM	Purchase	
	8 12:18 PM	Descention	
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	8 01:38 PM	Treatment	
	3 01:40 PM	Purchase	
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	8 06:51 PM	Prescription	
	3 08:32 AM	Purchase	
	3 10:14 AM	Appointment	
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	3 12:06 PM	UserForm	
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	3 04:21 PM	Purchase	
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Patient History

	09:17 PM	Appointment	
	09:18 PM	Vitals	
i i	98:16 AM	Purchase	
	99:11 AM	Appointment	
	JJ.11 ALVI	Appointment	
	09:27 AM	UserForm	
	09:52 AM	Purchase	
	09:52 AM	Purchase	
	09:53 AM	Treatment	
	09:53 AM	Vitals	
	09:54 AM	Treatment	
	09:56 AM	Prescription	
	10:11 AM	Treatment	
	10:11 AM	Labwork	
	10:11 AM	Treatment	
į	10:11 AM	Vitals	
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	10:13 AM	Purchase	
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	10:51 AM	Treatment	
	10:51 AM	Vitals	
	11:00 AM	Treatment	
	11:00 AM	Treatment	
	11:00 AM	Vitals	
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Patient History

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	11:28 AM	Prescription Treatment	
	11:44 AM 11:55 AM	Treatment UserForm	
	11.33 AlVI	Oserrorm	
	11:57 AM	Prescription	
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	02:02 PM	Labwork	
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Patient History

	06:22 PM	Vitals	
	07:12 PM	Treatment	
	07:12 PM	Vitals	
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	05:39 AM	Treatment	
	05:39 AM	Treatment	
İ	55.57 Tuvi	Heatment	
	05:39 AM	Vitals	
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Client:
Patient

Patient History

	·-		
	05:39 AM	Vitals	
	05:39 AM	Vitals	
	05:39 AM	Vitals	
	05:40 AM	Labwork	
	06:40 AM	Vitals	
	06:40 AM	Vitals	
	06:40 AM	Vitals	
	06:40 AM	Vitals	
	06:55 AM	Treatment	
	06:55 AM	Vitals	
	06:55 AM	Treatment	
	06:55 AM	Vitals	
	06:56 AM	Treatment	
	06:56 AM	Vitals	
	06:56 AM	Treatment	
	06:56 AM	Vitals	
	06:56 AM	Treatment	
	06: 5 6 AM	Vitals	
B6	07:17 AM	Treatment	B6
DU	07:17 AM	Vitals	
	07:31 AM	Treatment	
	07:52 AM	Treatment	
	09:00 AM	Treatment	
	09:09 AM	Purchase	
	09:11 AM	Purchase	
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	11:09 AM	Vitals Treatment	
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	11:48 AM	Treatment	
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Client:
Patient

Patient History

01:06 PM	I Treatment	
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01:54 PM	I Treatment	
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Patient History

D7-49 PM			
D7:58 PM Vitals D7:58 PM Vitals D7:58 PM Treatment D7:58 PM Treatment D7:58 PM Vitals D9:12 PM Vitals D9:12 PM Vitals D9:12 PM Vitals D9:12 PM Vitals D9:12 PM Vitals D9:13 PM Purchase D9:25 PM Treatment D9:29 PM Treatment	07:49 PM	Vitals	
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08:07 AM	Treatment	
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08:08 AM	Treatment	
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08:24 AM	Prescription	
09:03 AM	Treatment	
09:04 AM	Treatment	
09:04 AM	Vitals	
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02:16 PM	Treatment	
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02:38 PM	Prescription	
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08:49 AM	Treatment	
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03:13 PM	Treatment	
03:13 PM	Vitals	
03:15 PM	Prescription	
04:07 PM	Prescription	
07:36 PM	Email	
02:44 PM	Vitals	
02:57 PM	Purchase	
04:24 PM	UserForm	

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i	11:25 PM	Treatment	
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Client:
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Patient History

	11:26 PM	Vitals	
	12:40 AM	Treatment	
	12:40 AM	Vitals	
	01:38 AM	Treatment	
	01:38 AM	Vitals	
	01:38 AM	Treatment	
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	02:05 AM	Vitals	
	03:37 AM	Treatment	
	03:37 AM	Vitals	
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	07:58 AM	Treatment	
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07:58 AM	Treatment	
08:07 AM	Treatment	
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Patient History

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į	03:10 PM	Treatment	
	03:10 PM	Vitals	
	03:25 PM	Purchase	
	03:26 PM	Treatment	
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Client:
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	08:57 PM	Treatment	
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Patient History

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	11:43 AM	Treatment	
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	04:10 PM	Vitals	
	05:06 PM	Purchase	
	05:06 PM	Purchase	
	05:38 PM	UserForm	
	05:56 PM	Treatment	
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	05:56 PM	Vitals	
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	05:57 PM	Treatment	
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	05:58 PM	Treatment	
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Patient History			
04:55		Vitals	
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	110.07.43.6	T	
	10:07 AM	Treatment	
	10:07 AM	Vitals	
	10:18 AM	Treatment	
	10:18 AM	Vitals	
	10:49 AM	Treatment	
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09:12 AM	Vitals	
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Patient	History

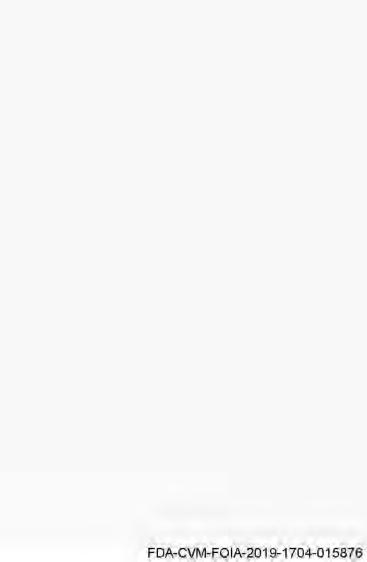
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10:52 PM	Treatment	
10:52 PM	Vitals	
11:38 PM	Treatment	
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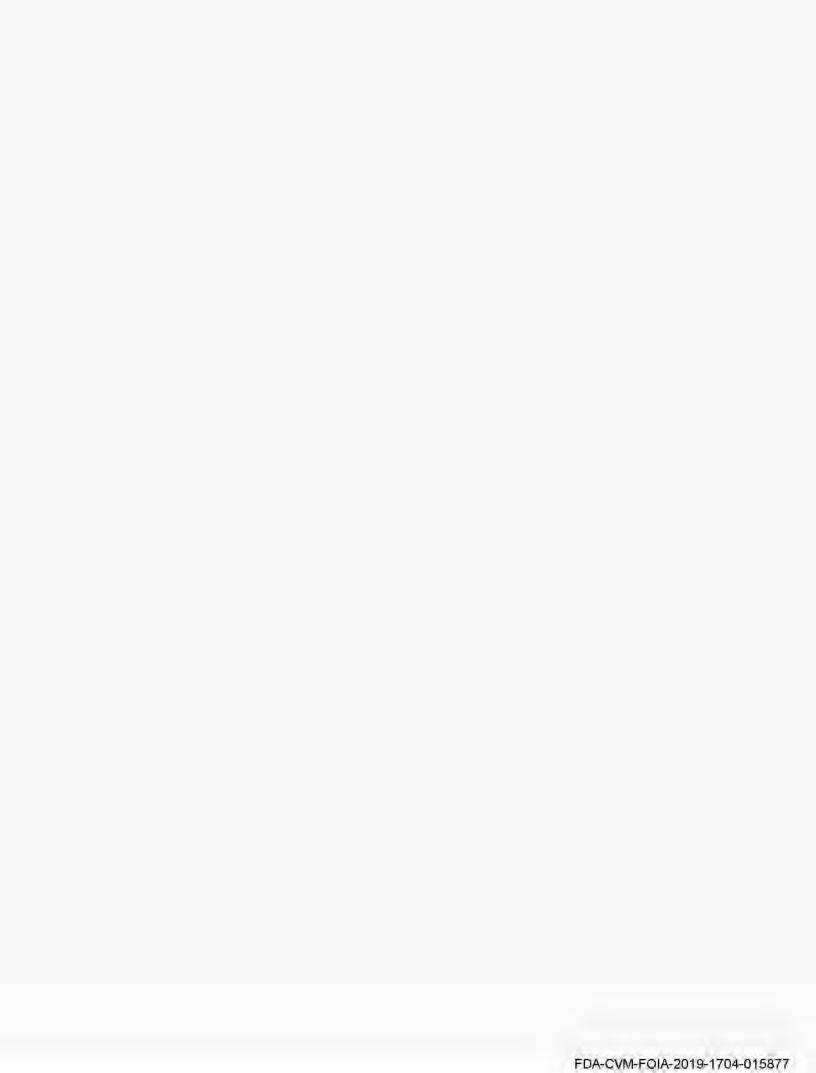
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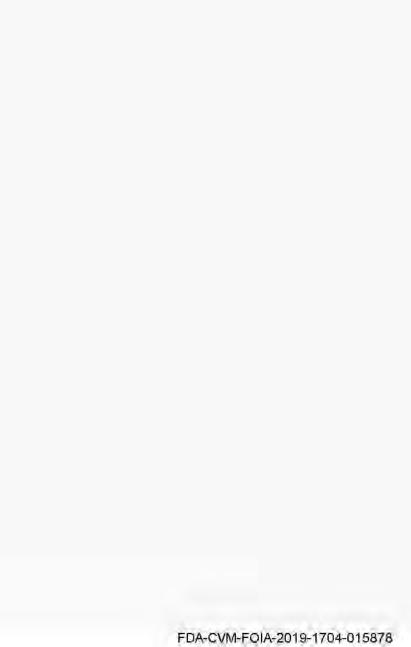
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07:42 AM	Vitals	
07:44 AM	Treatment	
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	vitais	B6
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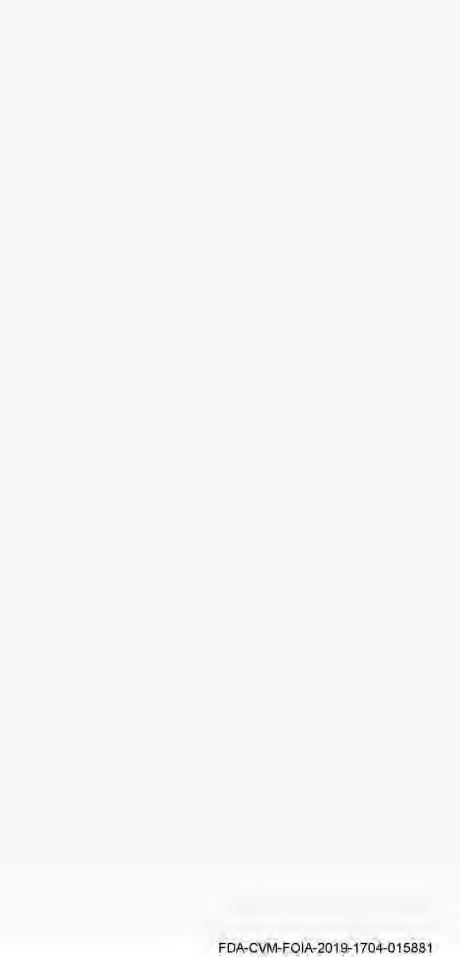


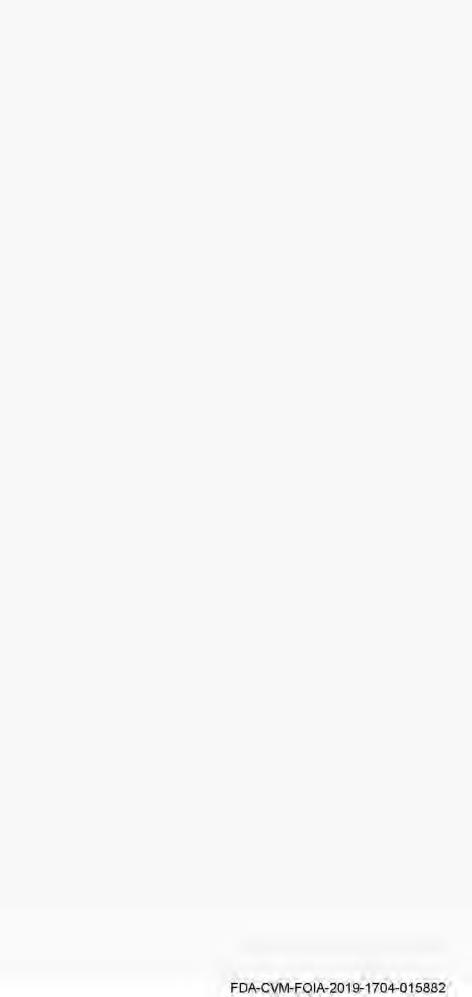




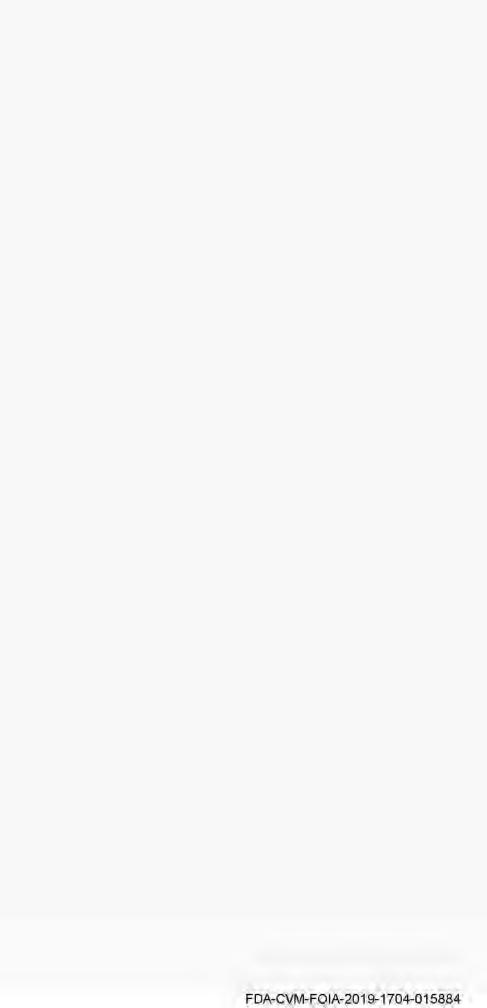






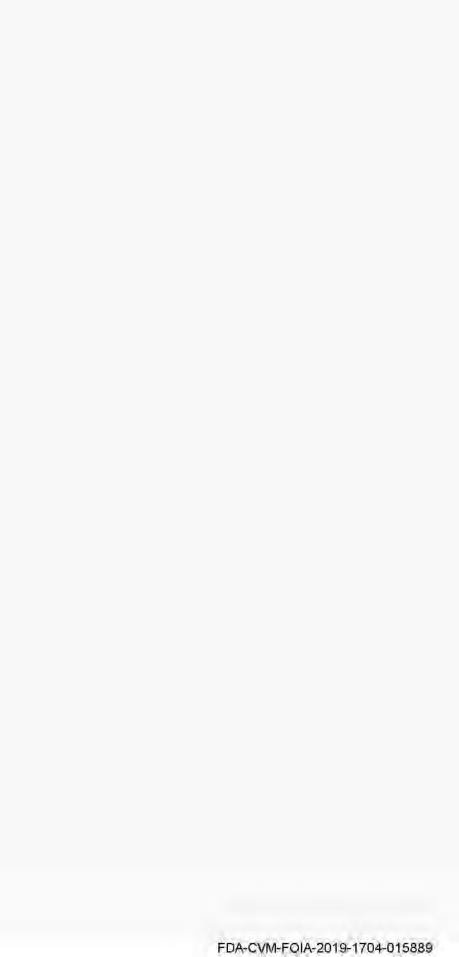


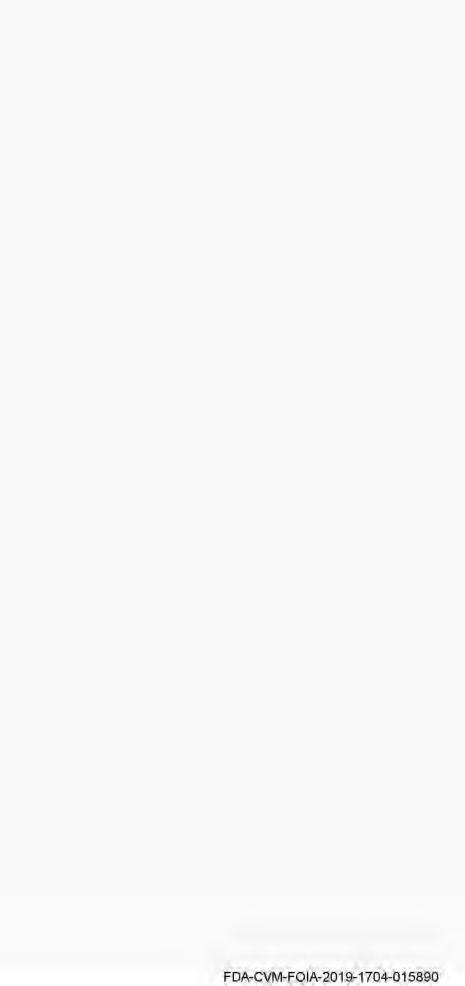




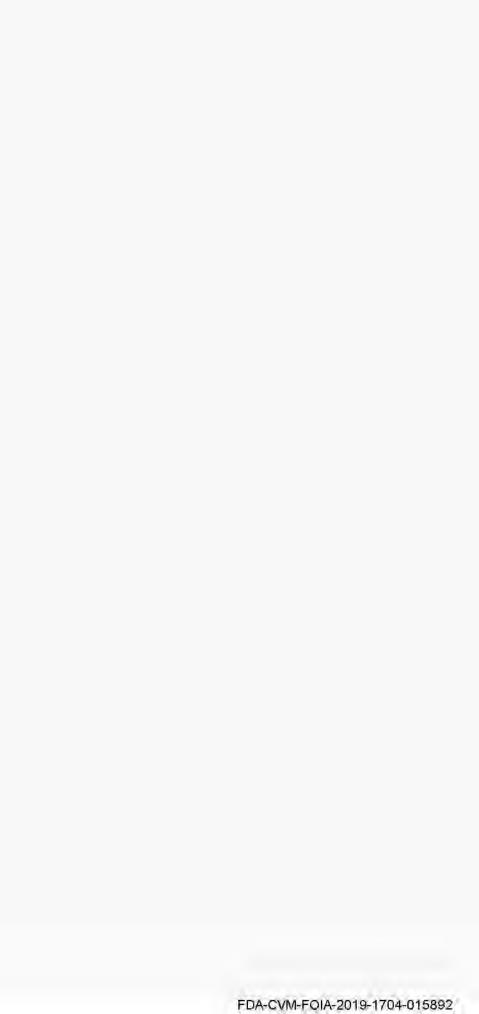






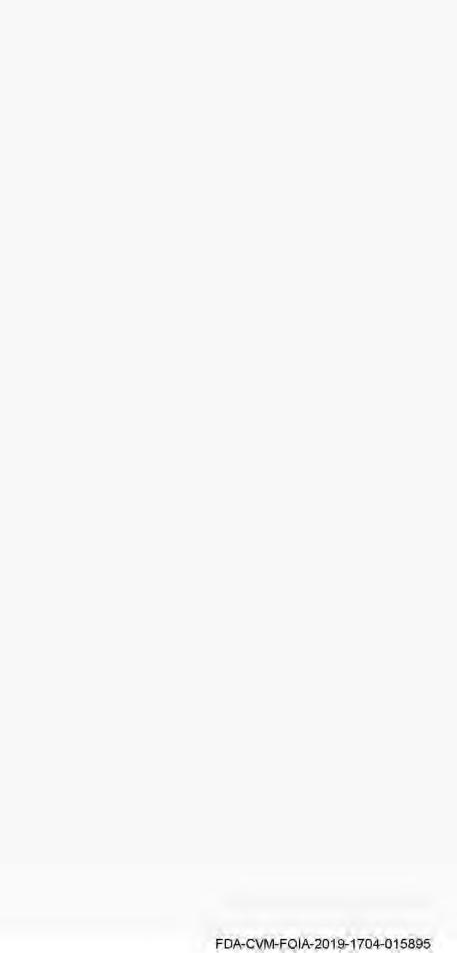












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Forter Hospital for Small Anamab. SS Willard Street. North Grafton, MA 01516 Telephone (SCR) 839-5395 For (SCR) 839-7953 http://estmed.tufts.edu/

B6 Mark (Minute Ind)
B6

1/9/2018

Thank you be referred. B6 restal for evaluation of a useful blody.

B6 restal for evaluation of a useful blody.

If you have any questions, or concerns, please contact us at 568-862-4986.

Think you,

B6

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Funiter Phopulat for Small Anamab. 35 William Street. North Grafton, MA 01576 Telephone (SOR) 939-5395 For (SOR) 939-7951 MSp://wsteed.tufts.edu/

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Foster Hospital for Small Animals 35 Willard Street North Guillon, MA 03556 Telephone (508) 839-5395 For (508) 839-7951 http://websed.tulks.edu/ Referring Vet Oirect Line 508-887-4988

Notice of Patient Admit	
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Foster Hospital for Small Amenals SS Willard Street Borth Grafton, MA 02506 To higheste (508) 809-5395 For (508) 839-7951 http://witmed.hdb.cdu/Goose

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Doily Update From the Internal Medicine Service



Forter Hospital for Small Anemals. 25 Willard Street. North Grafton, MA 01516 Te lephone (SCR) 939-5395 For (SOR) 839-7953 MBp://webmed.tufts.cd;//

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8/12/2018

Foster Hospital for Small Animals 35 Willard Street North Guillan, MA 03566 Telephone (SOR) 839-5395 For (SOR) 839-7951 http://websed.turks.edu/ Referring Vet Oirect Line SOR-880-4988

Notice of Patient Admit



Fonter Respital for Sessil Amenals SS Willard Street North Grafton, MA 01516 Telephone (SGR) 939-5395 Fan (SGR) 839-7951 Mgc//retined bulls.edu/

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8/23/2018



Forter Respital for Small Animals SS Willard Street North Grafton, MA 01576 Telephone (SGR) 939-5395 Fue (SGR) 839-7951 Mgc//retimed bulls edu/

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9/17/2018



Fonter Respital for Sessil Amenals 25 Willard Street North Grafton, MA 01516 Telephone (SGR) 939-5396 Fue (SGR) 839-7951 Map://setmed.bufts.edu/

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Forter Hospital for Small Animals. So Willard Street. North Grafton, MA 01576 Telephone (SGR) 939-5395 Fan (SGR) 839-7951 Mgc//retimed bulls edu/

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10/8/2018

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Funiter Phopoloid for Small Anamab. 35 William Street. North Grafton, MA 01576 Telephone (SCR) 939-5395 For (SCR) 839-7953 MBp://wstreed.tufts.edu/

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Male (Neutrond)

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Thank you.



Forter Hospital for Small Animals. So Willard Street. North Grafton, MA 01576 Telephone (SCR) 839-5395 Fan (SCR) 839-7953 Milly //webmed builts edu/

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Notice of Patient Admit

Foster Hospital for Small Animals 35 Willard Street North Guillan, MA 03556 Telephone (SOR) 839-5395 For (SOR) 839-7951 http://websed.tulks.edu/ Referring Vet Oirect Line SOR-880-4988

Code: 10/21/2018 2:33:46 FM Referring Doctor: B6 Client Binne: B6		B6	
Owner De B6			
	B6		

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: 9/12/2018 12:11:03 PM

Subject: DCM case-also fed Rachel Ray-FW: Nature's Variety Instinct Raw Boost Chicken dry: Lisa

Freeman - EON-365022

Attachments: 2054861-report.pdf; 2054861-attachments.zip

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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From: PFR Event cpfreventcreation@fda.hhs.gov>
Sent: Wednesday, September 12, 2018 8:09 AM

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

<HQPetFoodReportNotification@fda.hhs.gov>;
B6

Subject: Nature's Variety Instinct Raw Boost Chicken dry: Lisa Freeman - EON-365022

A PFR Report has been received and PFR Event [EON-365022] has been created in the EON System.

A "PDF" report by name "2054861-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 "2054861-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-365022

ICSR #: 2054861

EON Title: PFR Event created for Nature's Variety Instinct Raw Boost Chicken dry, Rachel Ray Nutrish Chicken

and Veggie dry; 2054861

AE Date	В6	Number Fed/Exposed	1
Best By Date		Number Reacted	1

Animal Species	Dog	Outcome to Date	Stable
Breed	Great Dane		
Age	6 Years		
District Involved	PFR-New England DO		

Product information

Individual Case Safety Report Number: 2054861

Product Group: Pet Food

Product Name: Nature's Variety Instinct Raw Boost Chicken dry, Rachel Ray Nutrish Chicken and Veggie dry **Description:** DCM and CHF. Owner was feeding Natures Variety until ~1/8/18 then switched to Rachel Ray. Presented to ER for coughing **B6** - DCM and CHF diagnosed (with atrial fibrillation). Taurine not measured and diet not changed. Re-evaluated **B6** and no improvement. Whole blood taurine pending and owner is switching diet. Owner does not have the Nature's Variety but will hold onto the Rachel Ray. She is happy to answer any additional questions

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
Nature's Variety Instinct Raw Boost Chicken dry		
Rachel Ray Nutrish Chicken and Veggie dry		

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-365022

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=381781

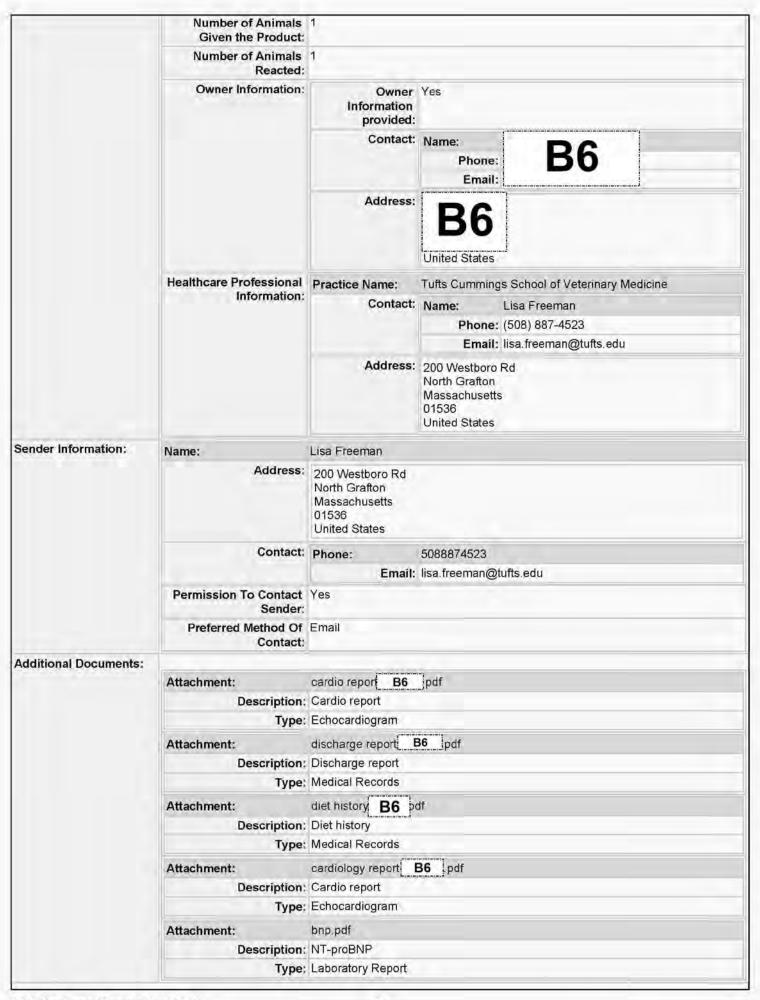
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Report Details - EON-	365022		
ICSR:	2054861		
Type Of Submission:	Initial		
Report Version:	FPSR.FDA.PETF.V.V1		
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	associated with the product)
Reporting Type:	Voluntary		
Report Submission Date:	2018-09-12 08:00:29 EDT		
Reported Problem:	Problem Description:	Rachel Ray. Presented to ER for coughing B6 DCM and CHF diagnose (with atrial fibrillation). Taurine not measured and diet not changed. Re-evalue B6 Ind no improvement. Whole blood taurine pending and owner is switching diet. Owner does not have the Nature's Variety but will hold onto the Rachel Ray. She is happy to answer any additional questions	
	Date Problem Started:	B6	
	Concurrent Medical Problem:	No	
	Outcome to Date:	Stable	
Product Information:	Product Name:	Rachel Ray Nutrish	Chicken and Veggie dry
	Product Type:	?	
	Lot Number:		
	Package Type:	BAG	
	Product Use	Description:	Fed from 1/8/18 to present.
	Information:	First Exposure Date:	01/08/2018
		Last Exposure Date:	
	Manufacturer /Distributor Information:		
	Purchase Location		
	Information: Product Name:	Naturo's Varioty Inst	inct Raw Boost Chicken dry
	Product Type:	\$0000000000000000000000000000000000000	inici ricari boosi omeren di y
	Lot Number:		
	Package Type:	BAG	
	Possess Opened Product:	<u></u>	
	Product Use Information:	Description: Perceived Relatedness to Adverse Event:	Fed from 14 months of age until ~1/8/8 Possibly related
	Manufacturer /Distributor Information:		
	Purchase Location Information:		
Animal Information:	Name:	В6	
	Type Of Species:	hanaranana)	
	Type Of Breed:	\$	
	Gender:	4	
	Reproductive Status:	Neutered	
		71 Kilogram	
		6 Years	
	Assessment of Prior Health:	Excellent	



Client B6 Patient B6 IDEXX Reference Laboratories Client B6. |
Patient B6 |
Species CANINE
Breed: GREAT_DANE
Gender: MALE NEUTERED
Age: 5Y IDE XX VetConnect 1-888-433-9987 TUFTS UNIVERSITY Date: 02/21/2018 Requisition # 366233 Accession # B6 Ordered by: B6 200 WES TBORO RD NORTH GRAFTON, Massachuseus 01536-1828 508-839-7936 Account B6 CARDIOPET ProBNP - CANINE CARDIOPET proBNF B6 **B6** 0 - 900 pmol L HIGH - CANINE Comments 1. Please note: Complete 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 NT-proSNP concentrations.

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

Patient IX B6
B6 Canine
B6 Years Old Male (Meutered) Great
Dane
Black BW: Weight(lbs) 0.00

Cardiology Inpatient

John E. Ru	ish DVM, MS, DACVIM (0	Cardiology), DACVECC
(#) eleta(w)eleta(#) eleta(w)eleta(#)	В6	
ardioloev Reside		
	B6	
A death of the contract of the	phs available for review	w?
Yes-in SS Yes-in PA		
No No	ics	
recenting manuf		
	laint and important con	current diseases:
istory of gagging		and irregular heart rhythm appreciated at referring
listory of gagging eterinarian. No h	g/coughing. Tachycardia	and irregular heart rhythm appreciated at referring rance or syncope.
listory of gagging eterinarian. No l Current medicati	g/coughing. Tachycardia history of exercise intole ons and doses: Salmon o	and irregular heart rhythm appreciated at referring rance or syncope.
listory of gagging eterinarian. No l current medication (ey indication for	g/coughing. Tachycardia history of exercise intole ons and doses: Salmon o	and irregular heart rhythm appreciated at referring rance or syncope. oil heart rhythm, pulse deficits, tachycardia
History of gagging veterinarian. No h Current medication Key indication for Questions to be a	g/coughing. Tachycardia history of exercise intole ons and doses: Salmon or r consultation: Irregular	and irregular heart rhythm appreciated at referring erance or syncope. oil heart rhythm, pulse deficits, tachycardia
listory of gagging eterinarian. No h Current medication (ey indication for Questions to be a evidence of DCM	g/coughing. Tachycardia history of exercise intole ons and doses: Salmon or r consultation: Irregular answered from the Cons vs other? Evidence of Cl	and irregular heart rhythm appreciated at referring erance or syncope. oil heart rhythm, pulse deficits, tachycardia
listory of gagging eterinarian. No licurrent medication for Questions to be a vidence of DCM syour consult time.	y/coughing. Tachycardia history of exercise intole ons and doses: Salmon or reconsultation: Irregular answered from the Com- vs other? Evidence of Cl me-sensitive? (e.g., ane	and irregular heart rhythm appreciated at referring rance or syncope. oil heart rhythm, pulse deficits, tachycardia sult: HF?
listory of gagging veterinarian. No hoursent medication for Questions to be a sydence of DCM syour consult time.	g/coughing. Tachycardia history of exercise intole ons and doses: Salmon or r consultation: Irregular answered from the Cons vs other? Evidence of Cl me-sensitive? (e.g., ane in)	and irregular heart rhythm appreciated at referring rance or syncope. oil heart rhythm, pulse deficits, tachycardia sult: HF? esthesia today, owner waiting, trying to get biopsy today
History of gagging veterinarian. No h Current medication for Questions to be a Evidence of DCM Is your consult tin Yes (explain	g/coughing. Tachycardia history of exercise intole ons and doses: Salmon or r consultation: Irregular answered from the Cons vs other? Evidence of Cl me-sensitive? (e.g., ane in) *STOP - remainder	and irregular heart rhythm appreciated at referring rance or syncope. oil heart rhythm, pulse deficits, tachycardia sult: HF?

		B6	
Echo	eardiogram Findings:		
	Hepatomegaly	Mild ascites	
	Normal	Abdominal distension	
Abdo	minal exam:		
	Normal by sounds	Other auscultatory findings:	
	Marked dyspnea Normal BV sounds	Upper airway stridor	
	Mild dyspnea	Wheezes	
	Eupneic	Pulmonary Crackles	
Pulm	onary assessments:	Harry Land	
	Intermittent		
4	No	Other:	
	Yes	Pronounced	
Gallo	p:		
	Premature beats		
	Sinusarrhythmia	Tachycardia, irregular	
100	None	Bradycardia	
(most)	thmia:		
	Strong	Other (describe):	
	Good	Pulsus paradoxus	
	Fair	Pulse deficits	
	Weak	■ Bounding	
Arter	ial pulses:		
100	Middle 1/3 of neck		
	Bottom 1/3 of neck	Top 2/3 of neck	
Name of Street	ar vein:		
Mum	nur location/description: systo	olic lett apical	
	III/VI	=	
	II/VI	□ VI/VI	
	I/VI	■ v/vi	
Mutt	nur Grade: None	■ IV/VI	
	ovascular Physical Exam		
	Mild muscle loss	Marked cachexia	
	Normal	Moderate cachexia	
MUST	le condition:		

	В	6		
				e constant constant (c
Assessment and recommendation in the server is a seven in the server is a seven in the seven in	the second secon	ndary IAF and FKG	reveak atrial film	rillation
with rapid ventricular respons	e rate. Changes are consis	ent with CHF being	the cause for repo	orted
ough. Recommend treating w	rith B6	, and consider	addition of an AC	E inhibit
when eating and not azotemic and low dose of B6 Reco	 Recommend treating atri 	al fibrillation with e	ktended release	B6
	or conner it aliminal cion a	one ask at borne	and DD/DE counts	mallaner
r exercise intolerance. ddendum: Overnight teleme		uent VPCs, couplets	with Ron Tmorp	hology, a
r exercise intolerance. ddendum: Overnight teleme ccasioanl non sustained vent	try showed relateively freq ricular tachycardia. Recom	uent VPCs, couplets	with Ron Tmorp	
r exercise intolerance. Addendum: Overnight teleme occasioanl non sustained vent B6 mg PO BID for 7 days, t	try showed relateively freq ricular tachycardia. Recom	uent VPCs, couplets	with Ron Tmorp	hology, a
or exercise intolerance. Addendum: Overnight teleme occasioanl non sustained vent B6 mg PO BID for 7 days, t	try showed relateively freq ricular tachycardia. Recom hen SID.	uent VPCs, couplets mend stopping B	with Ron Tmorp	hology, a
or exercise intolerance. Addendum: Overnight teleme occasioanl non sustained vent B6 mg PO BID for 7 days, to	try showed relateively freq ricular tachycardia. Recom	uent VPCs, couplets mend stopping B	with Ron Tmorp	hology, a
r exercise intolerance. ddendum: Overnight teleme ccasio and non sustained vent B6 mg PO BID for 7 days, to reatment plan: CM, CHF	try showed relateively freq ricular tachycardia. Recom hen SID.	uent VPCs, couplets mend stopping B	with Ron Tmorp	hology, a
r exercise intolerance. ddendum: Overnight teleme ccasio and non sustained vent. B6 mg PO BID for 7 days, the calment plan: cM, CHF trial fibrillation with rapid vent. leart Failure Classification Section Section Section 1.	try showed relateively freq ricular tachycardia. Recom hen SID. The showed relateively freq ricular tachycardia. Recom	uent VPCs, couplets mend stopping B	with Ron Tmorp	hology, a
r exercise intolerance. Iddendum: Overnight teleme ccasio and non sustained vent. B6 mg PO BID for 7 days, the comment plan: CM, CHF strial fibrillation with rapid vent. SACHC Classification:	try showed relateively freq ricular tachycardia. Recom hen SID. The stricular response rate	uent VPCs, couplets mend stopping B	with Ron Tmorp	hology, a
r exercise intolerance. Addendum: Overnight teleme occasio and non sustained vent. B6 mg PO BID for 7 days, to restment plan: CM, CHF Atrial fibrillation with rapid vent. SACHC Classification: la lb	try showed relateively freq ricular tachycardia. Recom hen SID. The showed relateively freq ricular tachycardia. Recom	uent VPCs, couplets mend stopping B	with Ron Tmorp	hology, a

ACVIM CHF Classification:		
□ A	■ c	
■ B1	□ 0	
■ B2		
2D		
SAIA		om
Ao Diam		om
SA LA / Ao Diam		
IVSd		on
LVIDd		om
LVPWd		om
EDV(Teich)	DC	ml
IVSs	B6	om
LVIDs		om
LVPWs		om
ESV(Teich)		ml
EF(Teich)		%
%FS		%
SV(Teich)	197	ml
M-Mode	Name and an interest of the second	
IVSd	The property of the contract o	om
LVIDd		am
LVPWd		om
IVSs		om
LVIDs		om
LVPWs	B6	an
%FS		%
Ao Diam		an
LA Diam		on
LA/Ao		
Max LA	la juniori mining	om
Doppler		
MR Vmax	************************************	m/s
MR maxPG		mmHg
MV E Vel		m/s
PV Vmax		m/s
PV maxPG	B6	mmHg
AV Vmax	2.7	m/s
AV maxPG		mmHg
TR Vmax		m/s
TR max ^p G		mmHe

Cardiology Liaison: 508-887-4696

	U		
l			
Patient I	D- B6		
B6	Canine		
B6 Yea	rsOld Male	(Neutered)	Great Dane

Cardiology Appointment Report

ttending Cardiolog		
	DVM, MS, DACVIM (Cardiolo	gy), DACVECC
	B6	
ardiology Resident		
ardiology Technicis		
	B6	
tudent: B6	V 19	

Presenting Complaint: Recheck for DCM & atrial fibrillation diagnosed Feb 2018

Concurrent Diseases:

None

General Medical History:

Diagnosed DCM feb 2018

Doing well in general, good energy level, seems to have good tolerance for exercise. Eating well, drinking well. Some diarrhea in car on way over, other than that nothing.

Cough has diminished over time, but coughs approximately once or twice a day. Rarely gives an extra dose of B6 maybe "once a month)

Diet and Supplements:

Rachel Ray Nutrish "Real Chicken & Veggies" flavor 3 cups BID 1/3cup + 1/2cup chicken broth +/- chicken a day

Salmon Oil

Cardiovascular History:

Prior CHF diagnosis? yes Prior heart murmur? yes Prior ATE? no Prior arrhythmia? yes Monitoring respiratory rate and effort at home? yes
Cough? yes
Shortness of breath or difficulty breathing?
Syncope or collapse? no
Sudden onset lameness? no
Exercise intolerance? mild

Current Medications Pertinent to CV System:

B6

hander min.	
Jugular vein: Bottom 1/3 of the neck	1/2 way up tisenesk
Middle 1/3 of theneck	Top 2/3 of the nock
Middle 1/3 of the nex	in 10p.2/s of the nex
Arterial pulses:	
Wesk	Bounding
Fair	Nuse delicits
Good	Pulsus paradmus
Strung	Other:
Arrhythmia:	
None	Bradycardia
Sinus arrhythmia	□ Tachycardia
Irregularly irregular	
Gallop:	
Yes	Pronounced
₩ No	Other:
ntermittent	a ole.
Dulanana armanata	
Pulmonary assessments:	Pulmonary crackles
	Wheres
Mild dyspnea	
Marked dyspnea Normal BV sounds	Upper airway stridor
Monthal BV Sounds	
Abdominal exam:	
Mormal Normal	Mild ascites
Hepatomegaly	Marked ascites
Abduminal distension	
Problems:	
Prior diagnosis DCM, Atrial fibrillation	
Diagnostic plan:	
Echocardiogram	Dialysis profile
Chemistry profile	Thoracicradiographs
EGG	NT-pruBNP
Renal profile	Troponin I
Blood presure	Other tests:
ond predac	
	B6

		A		
ASSESS	STREET, 2	and reso	STREET, STREET	abons.

Echocardiogram	reveals DCM wi	ith similar LA size and progression in LV cavity	size (r/o	disease
progression v co	ntribution from	slower heart rate today compared to last exar	n). Ventri	oular arrhythmia
appears well con	rtrolled, but atri	ial fibrillation ventricular response rate was ra	pid today	. Recommend
increasing	B6	if well tolerated. Owner to send Kardia	ECG in 10	days. Chem 21
submitted today	rto assess kidne	y and liver function. Taurine submitted via	B6	Recheck edno in
4-6 months, or s	ooner if clinical	sign occur such as increased RR/RE, cough, co	lapse, o	r exercise
intolerance.				

Final Diagnosis:

DCM, history of CHF

Atrial fibrillation with rapid ventricular response rate

Heart Failure Classification Score: ISACHC Classification: III IIIa la la

□ lb	<u> </u>
■ II	
CVIM Classification:	

A	M C
■ B1	□ D
■ B2	

M-Mode	farmen consequency	
IVSd		om
LVIDd		om
LVPWd		cm
IVSs	1	on
LVIDs		cm
LVPWs	B6	om
%FS	1=3	%
Ao Diam		om
LA Diam		cm
LA/Ao		

IVSs	1	an
LVIDs		am
LVPWs	B6	om
%FS	-7	%
Ao Diam		om
LA Diam		om
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p in construction sections 4	
	(0.29 - 0.52)
	(1.35 - 1.73)!
	(0.33 - 0.53) !
B6	(0.43 - 0.71)!
	(0.79 - 1.14)!
	(0.53 - 0.78) !
	(0.68 - 0.89)

LA Diam N (0.64 - 0.90)! 2D SA LA on Ao Diam OTT SA LA / Ao Diam **IVSd** am LVIDd an LVPWd m EDV(Teich) ml IVSs an LVIDs m LVPWs OTI ESV(Teich) mi % EF(Teich) **B6** %FS % SV(Teich) mi TAM TYX om LVAd LAX an **LVEDV A-L LAX** m **LVEDV MOD LAX** mi LVL5 LAX an LVAS LAX OTT **LVESV A-L LAX** mi **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 **Vmin** CO MOD LAX **Vmin** Doppler MR Vmax m/s MR maxPG mmHg PV Vmax **B6** m/s PV maxPG mmHg **AV Vmax** m/s AV maxPG mmHg

CARDIOLOGY DIET HISTORY FORM Please answer the following questions about your pet

	How would you assess your pet's appetite? On a scale of	f 1-10 with 1 bei	no poor and 10 be	ina excellent:	
					_
	Have you noticed a change in your pet's appetite over the Eats about the same amount as usual	e last 1-2 weeks ess than usual			
	Seems to prefer different foods than usual Other_				
	Over the last few weeks, has your pet (check one) Lost weight Gained weight Stayed above.	out the same we	eight ODon't k	now	
	Please list below <u>ALL</u> pet foods, people food, treats, snac currently eats. Please include the brand, specific product	, and flavor so w	ve know exactly wh	nat you pet is e	ating.
	Food (include specific product and flavor) For Examples are shown in the table – please provide enough			often? ore and buy the	Fed since e exact same for
	Food (include specific product and flavor)	Form	Amount	How often?	Fed since
I	Nutro Grain Free Chicken, Lentil, & Sweet Potato Adult	dry	1 1/2 cup	2x/day	Jan 2018
1	85% lean hamburger	microwaved	3 oz	1x/week	Jan 2015
I	Pupperoni original beef flavor	treat	1/2	1x/day	Aug 2015
1	Rawhide	treat	6 inch twist	1x/week	Dec 2015
-	Blue Seal Natural 26	dry			puppy-14 mos
I	Nature's Variety Instinct Raw Boost chicken	dry			14 mos until 1/8/18
	Rachel Ray Nutrish Chicken and Veggies	dry			1/8/18-present
	Cooked chicken or broth		1/3-1/2 cup per meal		
-	Occasional peanut butter or sweet potato homemade treats				
		mple: vitamins,	glucosamine, fatty	ts:	other
1	Do you give any dietary supplements to your pet (for exal supplements)? Yes No If yes, please list which Brand/Control Taurine Oyes No Antioxidants Oyes No Multivitamin Oyes No Ses No Coenzyme Q10 Oyes No Other (please list):	mple: vitamins, ones and give b oncentration	glucosamine, fatty	Am	ount per day
1	Do you give any dietary supplements to your pet (for exal supplements)? Yes No If yes, please list which Brand/Control Taurine Oyes No Antioxidants Oyes No Multivitamin Oyes No Ses No Coenzyme Q10 Oyes No Other (please list):	mple: vitamins, ones and give t	glucosamine, fatty	Am	
	Do you give any dietary supplements to your pet (for examplements)? Yes No If yes, please list which Brand/Contine Carnitine Antioxidants Yes No Multivitamin Yes No Coenzyme Q10 Other (please list): Example: Vitamin C Nature's How do you administer pills to your pet?	mple: vitamins, ones and give to concentration Bounty rectly in my pet's	glucosamine, fatty orands and amoun	500 mg tabl	ount per day
	Do you give any dietary supplements to your pet (for examplements)?	mple: vitamins, ones and give to concentration Bounty Tectly in my pet's a Pill Pocket or	glucosamine, fatty orands and amoun	500 mg tabl	ount per day
İ	Do you give any dietary supplements to your pet (for exal supplements)?	mple: vitamins, ones and give to concentration Bounty Tectly in my pet's a Pill Pocket or	glucosamine, fatty orands and amoun	500 mg tabl	ount per day

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

Discharge Instructions

Patient	Owner	
Mane B6	Name B6	Patient ID: B6
Species: Carrine	Address: B6	
Black Male (Neutered) Great Dane		
Rithdate: B6		
Attending Cardiologist:		
John E. Rush DVM, MS, DAC	VIM (Carrinlock) DACVECC	
	Name and the second	
B6		
D 0	į	
	(4) Andrews (4) An	
Cardiology Resident:	16	
	· · · · · · · · · · · · · · · · · · ·	
Student B6 /18		
Cardiology Technician:		
B6		
В		
Admit Date B6 11:16:58 AM		
Discharge Date B6		
Introduceron enterental		
Diagnoses: Dilated cardiomyopathy (DOM) with	energy tian broad fails an	
Atrial fibrillation and ventricular arrhy		
Paris de lineare de Come Rosa de la	, , , , , , , , , , , , , , , , , , , ,	
Case summary:		
Thank you for brining B6 to tults	for evaluation of his coughing and irregular h	eart rhythm B6 has been diagnosed
	called dilated cardiomyopathy (DCM). This dis	
	inning of the walls of the heart, reduced card	
	ny dogs with DOM will also have significant ar	
	nt. The heart enlargement has now progresse	
	the lungs and causing cough. Unfortunately th	
B6 comfortable and have him br	sde, however we can use cardiac medications	ansumedarys where what
Bo communication in the control	eaung aces.	
Diagnostic test results and findings		
The state of the s	lings: The heart was enlarged and there was fi	uid in the lungs.
	chambers of the heart are enlarged and the o	ALM ALM AND A CONTRACT OF THE ACCURATE AND A

ECG findings: The ECG showed atrial fibrillation with rapid ventricular response rate. Additionally there were some

Labwork findings: The kidney values and urinalysis are within normal limits. He has slightly elevated bilirubin, and

elevated AST but the rest of his liver values are normal and these values have decreased during his stay.

ventricular arrhythmias (ventricular premature bests and ventricular tachycardia).

Monitoring at home:

- We would like you to monitor your dog's breathing rate and effort at home, ideally during sleep or at a time of rest.
 The doses of drugs will be adjusted based on the breathing rate and effort.
- O Ingeneral, most dogs with heart failure that is well controlled have a breathing rate at rest of less than 35 breaths per unimute. In addition, the breathing effort, noted by the amount of belly wall motion used for each breath, is fairly minimal if heart failure is controlled.
- O An increase in breathing rate or effort will usually mean that you should give an extra dose of B6
 If difficulty breathing is not improved by within 30-60 minutes after giving ext B6 then werecommend that a recheck exam be scheduled and/or that your dog be evaluated by an emergency dinic.
- Of 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/).
- O Wealso 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 24hours/day.
- You may want to explore the option of purchasing an Alivecor/Kardia at home ECG monitoring device. This would allow you to get an ECG and send it to us via email.

Recouns	hoheor	Bander	ations
	Mark Street, Name and		

B6

Diet suggestions:

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

Your dog's usual diet may also have more sodium than recommended - we work him to continue to eat his normal diet for the first 7 to 14 days so we can make sure he is tolerating medications well, but after that time we would recommend slowly introducing one of the lower sodium diets on the HeartSmart list (25% of the new diet and 75% old diet for 2-3 days, then 50.50, etc.). Hopefully you can find a diet on the list that your dog likes to eat. Alternatively, you can research the amount of sodium in the diet to ensure that the sodium content is similar to those on the list.

-	-		7.7	
E-verse	ELC:			

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 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.

Red	N eck	W	500	S

A recheck visit is recommended in 1-2 weeks to check kidney values, electrolytes, and liver values. An ECG is also recommended at that time. This can be done with us or with your primary care veterinarian. If you have any concerns are how things are going then we would prefer for BG to come here for that recheck.

A recheck echocardiogram is recommended in 3-4 months, or sooner if you have any concerns. Please call or email to schedule this appointment.

Them	k you for e	ntrusting us with	B6	care. He is such a sweet boy. Please contact our Cardiology laison,	B6
at	В6	or email us at ca	rdiove	Letuits.edu for scheduling and non-emergent questions or concer	TIS.

Please visit our HeartSmart website for more information http://vet.tulis.edu/heartsmart/

Prescription Refill Discholmer:

For the safety and well-being of our patients, your pet must have had on examination by one of our veterinarians within the past year in order to obtain prescription medications.

Ordering Food:

Please check with your primary veterinarian to purchase the recommended diet(s). If you wish to purchase your food from us, please call 7-10 days in advance (508-887-4629) to ensure the food is in stock. Alternatively, veterinary diets can be ordered from online retailers with a prescription/veterinary approval.

Clinical Trials:

Clinical trials are studies in which our veterinary doctors work with you and your pet to investigate a specific disease process or a promising new test or treatment. Please see our website: <u>vet.tufts.edu/cvmc/clinical-studies</u>

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

 To:
 Jones, Jennifer L

 Sent:
 9/12/2018 12:01:30 PM

Subject: B6

Attachments: discharge report 9-10-18.pdf; natures variety.pdf; profile 9-10-18.pdf; rachel ray.pdf; radiology

report 2-20-18.pdf; rdvm records.pdf; soap.pdf

Hi Jen

I just submitted a report on this dog but it didn't allow me to attach all the records. Here are the rest

Taurine is pending

Thanks Lisa

Lisa M. Freeman, DVM, PhD, DACVN

Board Certified Veterinary NutritionistTM

Professor

Cummings School of Veterinary Medicine

Friedman School of Nutrition Science and Policy

Tufts Clinical and Translational Science Institute

Tufts University

www.petfoodology.org

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

Discharge Instructions

Patient	Owner	
Name B6	Name B6	Patient ID: B6
Species: Canine	La destruction de la company d	Linear Control (1)
Black Male (Neutered) Great Dane	B6	
Rithdate: B6		
Attending Cardiologist: John E. Rush DVM, MS, DACVIM	(Cardiology), DACVECC	
B6		
Cardiology Resident:		
	36	
Cardioloev Technicon	**************************************	
B6		
Student B6 V19		
Date: 9/10/2018		
7		
Diagnoses:		Act of the second
Dilated cardiomyopathy (DCM) with con Atrial fibrillation and ventricular arrhythr	gestive heart failure - currently well contro mias - improved with medications	led with medications
Case summary:		
Thank you for brining B6 to Tults to been doing well at home! His echocardio progression of DOM. However, we did no	recheck his heart and evaluate how he is d igram shows that his heart is still markedly ot see any free fluid currently around the lu ect), but fewer ventricular arrhythmias than n ideal so wewould like to increase his	enlarged, as we expect to see in the ngs or heart. B6 EKG continues to
kidney values. We will also call you in abo	unction and measure taurine levels. We will out a week with the taurine values. If B6 rd from us with these results in 2 weeks the	taurine is low we will want to add a
Monitoring at home:	our dog's breathing rate and effort at home	ideallication down and a time of met
	ted based on the breathing rate and effort.	s, result trains seem at a time to test
The state of the s	rt failure that is well controlled have a b	reathing rate at rest of less than 35
breaths per minute. In addition, breath, is fairly minimal if heart	, the breathing effort, noted by the amount	of belly wall motion used for each
	rai ure is controlles. r effort will usually mean that you should g	ive on extra dose of B6
	oved by within 30-60 minutes after giving o	
	ed and/or that your dog be evaluated by ar	

(2:3:22

- O Wealso want you to watch for weakness or collapse, a reduction in appetite, worsening cough, or distention of the belly as these findings indicate that we should do a recheck examination.
- of If you have any concerns, please call or have your dog evaluated by a veterinarian. Our emergency clinic is open 24 hours/day.

Becommended Medications B6

Diet suggestions:

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

As per Dr. Lisa Freeman's recommendation, we suggest seeing if B6 likes the Purina Proplan Adult Weight
Maintenance. This will help balance B6 dietary and cardiac needs. If he does not like this food we can come up with
some more good options for him.

Exercise Recommendations:

When on walks, 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 stremuous high energy activities (repetitive ball chasing, running fast off-leash, etc.) are generally not advised.

Recheck Visits:

Please email us an EOG in 10-14 days so we can see how B6 heart rate is on the higher dose o B6

A recheck echocardiogram is recommended in "4-6 months, or sooner if you have any concerns. Please call or email to schedule this appointment.

Thank you for entrusting us with B6 care. He is such a good boy. Please call 508 839 5395 or email us at cardiovet@tulis.edu for scheduling and non-emergent questions or concerns.

Please visit our HeartSmart website for more information http://vet.tufts.edu/heartsmart/

Prescription Refit 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:

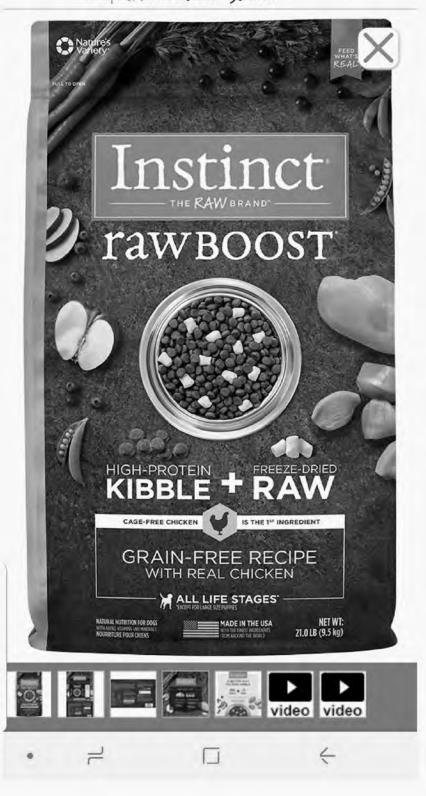
Please check with your primary veterinarian to purchase the recommended diet(s). If you wish to purchase your food from us, please cult 7-10 days in advance (508-887-4629) to ensure the food is in stock. Alternatively, veterinary diets can be ordered from online retailers with a prescription/veterinary approval.

	-	- W.	-6
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-		200	-

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/ovmc/clinical-studies</u>

Case B6 Owner B6 Discharge Instructions

* Instinct by Nature'... : https://www.chewy.com



Foster Hospital for Small Animals

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

Client:		
Veterinarian	B6	
Patient ID:		
Visit ID:	2497890	

Patient:	B6
Species:	Canine
Breed:	Great Dane
Sex;	Male (Neutered)
Age:	B6 Years Old

Lab Results Report

Chemistry 21 (Cobas) 9/10/2018 2:16:20 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
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	B6	106 - 116	mEq/L
POTASSIUM		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

stringsoft

1/1

B6



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

Radiology Request & Report

Patient	Owner	DETECTION OF THE PROPERTY.	Proportion and Propor	
Name: B6	Marnet B6		Patient ID: B6	
Species: Canine Black Male (Neutered) Great	Address	B6	Date of request: B6	
orana mrane (menuteren) oreas Dame	1.	s)====(=)====(=)=;=====(=)=;=(=)=;	i.i.	
Brithdate: B6				
филическо-пинеско-писическо-писическо-писическо-писическо-писическо-писическо-писическо-писическо-писическо-пи			7	
Attending Clinician: B6	DVM	B6	Student:	
Patient Location: Ward/Ca Impatient Outpatient Waiting Emergency		The state of the s	Weight(lbs) 0.00 OBAG tor/Butorphanol ia to sedate/anesthetize	
Examination Desired: Met	check			
Presenting Complaint and (Emergency	Clinical Questi	ons you wish to	answer:	
Pertinent History: Afib dia	mosed on 2/1	7. HR 250 today		

Findings

THORAX, THREE VIEWS:

The cardiac silhouette is moderately to markedly generally enlarged. The pulmonary veins are diffusely mildly distended. There is a patchy interstitial pattern throughout the pulmonary parenchyma, most conspicuous in the perihilar and caudodorsal lungs. Increased opacity is additionally noted in the right cranial lung lobe. Thin pleural fissure lines are present. The mediastinum is normal. There are metallic ECG leads superimposed with the thorax. There is incidental multifocal ventral spondylosis deformans and mild unilateral shoulder degenerative joint disease, laterality unknown. There is an impression of reduced abdominal serosal detail, though this may be overestimated by patient size and technique.

Conclusions:

Moderate to marked generalized cardiomegaly and pulmonary vascular and parenchymal changes are

most consistent with decompensated congestive heart failure and cardiogenic pulmonary edema. Right cranial lung lobe opacity is thought to represent additional cardiogenic edema. Given scant pleural effusion and impression of reduced serosal detail, a component of biventricular failure may be present. Echocardiography and follow-up radiographs are recommended.

Radiologists		
Primary:	B6	DVM
Reviewing:		
Dates		
Reported:	B6	
Finalized:		

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

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

To: 'Freeman, Lisa'

Sent: 9/12/2018 12:12:12 PM **Subject:** RE **B6**

Received. Thanks, Lisa!

Jennifer Jones, DVM Veterinary Medical Officer

Tel: 240-402-5421

From:



From: Freeman, Lisa <Lisa.Freeman@tufts.edu> Sent: Wednesday, September 12, 2018 8:02 AM To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Subject B6

Hi Jen

I just submitted a report on this dog but it didn't allow me to attach all the records. Here are the rest

Taurine is pending

Thanks Lisa

Lisa M. Freeman, DVM, PhD, DACVN

Board Certified Veterinary NutritionistTM

Professor

Cummings School of Veterinary Medicine

Friedman School of Nutrition Science and Policy

Tufts Clinical and Translational Science Institute

Tufts University

www.petfoodology.org

From: To: Sent: Subject:	Freeman, Lisa <lisa.freeman@tufts.edu> Peloquin, Sarah B6 4:03:48 PM Update on B6</lisa.freeman@tufts.edu>
FYI Lisa	
	Veterinary Medicine utrition Science and Policy uslational Science Institute
From Sent: To: Tufts Veterinary C. Subject: B6	B6 ardiology Service < cardiovet@tufts.edu >
Thank you for all tha	at you have done for B6
He passed away	B6 Our hearts are completely broken.
	all that you do to help dogs like our B6 Because of all your help we were able to have onths after his DCM diagnoses. It was a good eight months.
Sincerely,	
B6	

From:	B6
To:	Peloquin, Sarah
Sent:	B6 6:05:45 PM
Subject:	Re: Please accept my condolences
Thank you for y	vour condolences.
, ,	<u>,</u>
was out of tow	<u>,</u>
was out of tow	n when it happened. My husband brought him to our vet, B6 at the B6
was out of tow	n when it happened. My husband brought him to our vet, B6 at the B6

Or B6 1:50 PM, "Peloquin, Sarah" <sarah.peloquin@fda.hhs.gov> wrote: Hello B6</sarah.peloquin@fda.hhs.gov>
Dr. Lisa Freeman told me that passed away a few days ago. I am so, so sorry to hear this. Please accept my condolencesI know he was a special boy.
I was wondering if an autopsy was done. Please let me know, if you don't mind.
Thank you, Dr. Peloquin
Sarah K. Peloquin, DVM Veterinary Medical Officer
U.S. Food & Drug Administration Center for Veterinary Medicine Veterinary Laboratory Investigation and Response Network tel: 240-402-1218 fax: 301-210-4685
fax: 301-210-4685 e-mail: sarah.peloquin@fda.hhs.gov

From:	Jones, Jennifer L (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0F6CA12EAA9348959A4CBB1E829AF244- JENNIFER.JO>
То:	Carey, Lauren
Sent:	7/5/2019 11:13:12 AM
Subject:	FW: 800.267-FDA Case Investigation for B6 (EON-358842)
FYI-correction from	the owner.
Jennifer Jones, DVM Veterinary Medical O Tel: 240-402-5421	fficer
FDA U.S. FOOD & DRUG	
From:	B6 e 30, 2019 12:28 AM
To: Jones, Jennifer	L <jennifer.jones@fda.hhs.gov> 67-FDA Case Investigation for B6 (EON-358842)</jennifer.jones@fda.hhs.gov>
Hi Dr. Jones,	
First, B6 is con	tinuing to recover. I'll be happy to forward her updated records if you would like them.
of errors. My other approximately a yeamedication B6	update released by the FDA. I located our specific complaint in the PDF. There are a couple dog was not on Taste of the Wild "for years." She, thankfully, was only exposed to it for ar. She transitioned only when B6 went on Adult food. The other error is in regards to the was discharged with when diagnosed. She was also prescribed Taurine supplement as she nt as well as B6
I felt the correction	regarding B6 was important as length of "exposure" may be an important variable.
Best Regards,	
В6	
On Nov 15, 2018, a	t 12:36 PM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> > wrote:
Thank you for shari We are actively inve have a new web up posted here: https:/	ng the updated medical records. I'm very happy to hear that B6 is recovering! estigating the potential connection between the diets and dilated cardiomyopathy. We should date coming out soon that details the progress of our investigation. The new update will be https://www.fda.gov/AnimalVeterinary/NewsEvents/CVMUpdates/default.htm dditional information and Happy Thanksgiving,
Jennifer Jones, DVM Veterinary Medical O Tel: 240-402-5421 ≤image001.png>	
nnageou r.png	imagoooz.prig
From:	B6 }
•	November 14, 2018 8:42 AM L < lennifer lones@fda.hhs.gov>
THE COLUMN THE COLUMN	1 September 2011 (1973) 27 1 (1973) 27 1 (1974) 1 (1974) 2 (1974) 1 (1974)

Subject: Re: 800.267-FDA Case Investigation for B6 EON-358842)
Good Morning Dr. Jones,
Attached are the most recent reports on B6 She is recovering!
However, I had a rather disturbing discussion with B6 from Taste of the Wild. She commented that "The FDA appears to be backing off the issue." Is this true? She also commented that "The FDA only has 150 cases." Again, how can this this possibly be true? I see the dogs at Tufts. I see the dogs online being discussed. Certainly there are more that 150 cases. Dr. Stern has at least 50 dogs just at UCDavis.
I find it distressing that a food manufacturer believes the FDA is "backing off" the issue when in fact, we know this is a very real and serious issue.
Thank You,
B6

From:	Jones, Jennifer L JENNIFER.JO>
To:	B6
Sent:	7/5/2019 11:15:57 AM
Subject:	RE: 800.267-FDA Case Investigation for B6 (EON-358842)
Thank you, B6 I'll make sure our recor willing to share, we can	ds are updated. If you have any recent echocardiogram data for B6 that you're add it to her case.
Jennifer Jones, DVM Veterinary Medical Office Tel: 240-402-5421	
FDA U.S. FOOD & DRUG	
	B6 , 2019 12:28 AM Jennifer.Jones@fda.hhs.gov> FDA Case Investigation for B6 (EON-358842)
Hi Dr. Jones,	
First, B6 is continu	ing to recover. I'll be happy to forward her updated records if you would like them.
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Best Regards,	
B6	
On Nov 15, 2018, at 12	2:36 PM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> > wrote:
We are actively investignave a new web update posted here:	

From:
Sent: Wednesday, November 14, 2018 8:42 AM
To: Jones, Jennifer L < Jennifer.Jones@fda.hhs.gov>
Subject: Re: 800.267-FDA Case Investigation for B6 (EON-358842)
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I find it distressing that a food manufacturer believes the FDA is "backing off" the issue when in fact, we know this is a very real and serious issue.
Thank You,
B6

From:	Jones, Jennifer L
To:	B6
Sent:	8/5/2019 7:02:39 PM
Subject:	RE: 800.267-FDA Case Investigation for B6 (EON-358842)
Thank you B6	. I look forward to seeing the echo.
Jennifer Jones, DVM Veterinary Medical Officer Tel: 240-402-5421	
FDA U.S. FOOD & DRUG	
	Jennifer.Jones@fda.hhs.g <u>ov></u>
Subject: Re: 800.267-F	FDA Case Investigation for B6 (EON-358842)
Hi Dr. Jones,	
'	ually just had her one year check up on July 3rd. They're finalizing the report and will k. I'll forward it to you at that time.
To summarize, she's im issues while under ane	proved over a year ago and remains stable. In fact, we just spayed her and she had no sthesia or post op.
I'll send you the echo re	eport as soon as I have it.
Best Regards,	
В6	
On Jul 5, 2019, at 7:15	AM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> > wrote:
Thank you B6	
	ds are updated. If you have any recent echocardiogram data for B6 that you're
willing to share, we can	add it to her case.
Jennifer Jones, DVM Veterinary Medical Officer Tel: 240-402-5421 <image001.png> <im< td=""><td></td></im<></image001.png>	
From:	B6
Sent: Sunday, June 30,	
	Jennifer.Jones@fda.hhs.gov> FDA Case Investigation for B6 (EON-358842)
Hi Dr. Jones,	
First, B6 is continu	ing to recover. I'll be happy to forward her updated records if you would like them.

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I felt the correction regarding B6 was important as length of "exposure" may be an important variable.
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On Nov 15, 2018, at 12:36 PM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> > wrote:
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Jennifer Jones, DVM Veterinary Medical Officer Tel: 240-402-5421 <image001.png> <image002.png></image002.png></image001.png>
From: B6 Sent: Wednesday, November 14, 2018 8:42 AM
Sent: Wednesday, November 14, 2018 8:42 AM To: Jones, Jennifer L < Jennifer.Jones@fda.hhs.gov> Subject: Re: 800.267-FDA Case Investigation for B6 (EON-358842)
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However, I had a rather disturbing discussion with B6 from Taste of the Wild. She commented that "The FDA appears to be backing off the issue." Is this true? She also commented that "The FDA only has 150 cases." Again, how can this this possibly be true? I see the dogs at Tufts. I see the dogs online being discussed. Certainly there are more that 150 cases. Dr. Stern has at least 50 dogs just at UCDavis.
I find it distressing that a food manufacturer believes the FDA is "backing off" the issue when in fact, we know this is a very real and serious issue.
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From:	Jones, Jennifer L (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo>
To:	B6
Sent:	8/6/2019 2:16:41 PM
Subject:	RE: 800.267-FDA Case Investigation for EON-358842)
Thank you!	
Jennifer Jones, DVM Veterinary Medical Office Tel: 240-402-5421	er -
FDA U.S. FOOD & DRUG	WALKE .
From: Sent: Monday, August	
,, ,	<pre><jennifer.jones@fda.hhs.gov></jennifer.jones@fda.hhs.gov></pre>
	-FDA Case Investigation for B6 (EON-358842)
My apologies. I meant	to send this sooner.
Attached is her echoca anesthesia.	ardiogram from 7/3/2019. Of note, she had surgery on B6 and did very well under
Regards,	
В6	
	02 PM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> > wrote:
Thank you, B6	I look forward to seeing the echo.
Jennifer Jones, DVM Veterinary Medical Office Tel: 240-402-5421 ≤image003.png> <in< td=""><td></td></in<>	
- IIIageooo.prig	mage-ou-t.prig>
	B6 2019 1:12 PM < <u>Jennifer.Jones@fda.hhs.gov></u> -FDA Case Investigation for B6 (EON-358842)
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Hi Dr. Jones,
First B6 is continuing to recover. I'll be happy to forward her updated records if you would like them.
I did see the recent update released by the FDA. I located our specific complaint in the PDF. There are a couple of errors. My other dog was not on Taste of the Wild "for years." She, thankfully, was only exposed to it for approximately a year. She transitioned only whet B6 vent on Adult food. The other error is in regards to the medication B6 was discharged with when diagnosed. She was also prescribed Taurine supplement as she was Taurine deficient as well as B6
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Thank You,
B6

Cardiology Liaison: 508-887-4696

B6 Patient ID | B6 | B6 | Canine B6 Fears Old Female Great Dane Blonde

Cardiology Appointment Report

Date: 9/5/2018	
Attending Cardiologis	
John E. Rush D	VM, MS, DACVIM (Cardiology), DACVECC
	B6
Cardenager messeums:	
	B6
Cardiology Technician	
	B6
Student: B6 V	19
terraneura.	
Presenting Complaint	
6/6/18 - MVDysplasia	diagnosis, low grade
7/6/18 - CHF, DCM	
Here to establish	B6 as new veterinarian. Wants an echo and a renal panel today.
Concurrent Diseases:	
Ha	B6
General Medical History	
Clinically well, eating, PU/PD from B6	drinking, defecating, urinating. Good energy level.
Diet and Supplement	
The second secon	ve skin & stomach Salmon and Rice 2.5 cups BID
2000mg Taurine suppl	Parties with the formation of the control of the co
	e (Taste of the Wild pacific, angus freedom) Diet changed 7/8
Cardiovascular Histor	
Prior CHF diagnosis? 7	
Prior heart murmur?	
Prior ATE? no	7.05 9.06 70.04 7.07
Prior arrhythmia? no	

Monitoring respiratory rate and effort at home? yes Cough? Intermittent between 6/6-7/6
Shortness of breath or difficulty breathing? no Syncope or collapse? no Sudden onset lameness? no Exercise intolerance? no

B6

Cardiac Physical Examination:

B6

Muscle condition: Normal Mild muscle loss	☐ Moderate cacheda ☐ Marked cacheda
Cardiovascular Physical Exam:	
Murmur Grade: None I/VI II/VI and mid-systolic click III/VI	IV/VI V/VI VI/VI

Murmur location/description: systolic	left apex
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

Strong	Other:
Arrhythmia: None Sirus arrhythmia Premature beats	Bradycardia Tachycardia
Gallop: Yes No Intermittent	Pronounced Other: mid systolic click
Pulmonary assessments: Euprieic Mild dyspnea Marked dyspnea Normal BV sounds	Pulmonary crackles Wheeses Upper airway stricker
Abdominal exam: Normal Hepatomegaly Abdominal distension	Mild ascites Marked ascites
Problems: MVD Hx CHF	
Differential Diagnoses: Previous diagnosis MVD	
Diagnostic plan: Echocardiogram Chemistry profile ECG Renal profile Blood pressure	Dialysis profile Thoracic radiographs NT-proBNP Troponin (Other tests:
walls are subjectively only mildly thi	is moderately dilated with mildly reduced contractile function. LV in. The LA is mildly to moderately enlarged. The mitral valve is ppears WNL. The PA is mildly dilated. There is no pericardial or
B6	
Mitral inflow: Summated Normal Delayed relaxation	Pseudonormal Restrictive
EOG findings	B6
Assessment and recommendations	: Today's echocardiogram shows improvement compared to the exam

FDA-CVM-FOIA-2019-1704-015957

from July, with improved contractile function and some decrease in the LA size, however LV contractile function is not back to normal at this time. Given the documented taurine deficiency and history of eating a grain free diet, nutritional secondary dilated cardiomyopathy superimposed on pre-existing mitral valve dysplasia is the primary differential. However the acute worsening of LV dilation and contractile function and acute decompensation to CHF between June and July raise concern for another more acute disease process, such as myocarditis compicating the underlying cardiac disease. An NTpro BNP was submitted today to obtain a baseline value to allow for further monitoring. B6 seems to be doing very well clinically on her taurine supplementation and current cardiac medications. A renal profile was submitted today to determine whether any modifications to the **B6** dose are needed at this time. If NTproBNP value is markedly elevated the addition of B6 may also be considered. Recommend recheck echocardiogram in 2 months to assess for any continued improvement with resolving taurine deficiency.

<u>Final Diagnosis</u>: Dilated cardiomyopathy with history of episode of LCHF - suspected taurine deficiency secondary to long term feeding of grain free diet; Suspect mitral valve dyplasia

Heart Failure Classification Score:		
ISACHC Classification:		
□ la	IIIa	
□ lb	III IIIIb	
₩ ii		
ACVIM Classification:		
□ A	■ C	
■ B1	■ D	
□ B2		
M-Mode	garden and an experience by	
IVSd		om
LVIDd		OTT
LVPWd		om
IVSs		om
LVIDs		cm
LVPWs	B6	om
%FS	50	%
Ao Diam		an
LA Diam		om
LA/Ao		
Max LA		om
EPSS	l ₁₌₁₀₀₀ (m)=100d	cm
M-Mode Normalized		
IVSdN		(0.29 - 0.52) !
LVIDdN		(1.35 - 1.73)!
LVPWdN		(0.33 - 0.53)
IVSsN	B6	(0.43 - 0.71)
LVIDsN		(0.79 - 1.14)!
LVPWsN		(0.53 - 0.78)
Ao Diam N		(0.68 - 0.89)
LA Diam N		(0.64 - 0.90)

<u>2D</u> SA LA		cm
Ao Diam		am
SA LA / Ao Diam		
IVSd		cm
LVIDd		cm
LVPWd		am
EDV(Teich)	B6	ml
IVSs		cm
LVIDs		am
LVPWs		cm
ESV(Teich)		ml
EF(Teich)		%
%FS		%
SV(Teich)	1,4,0,0,0,0,0,0,0	ml
Doppler		
MR Vmax	i de	m/s
MR maxPG		mmHg
MV E Vel		m/s
MV DecT		ms
MVAVel	B6	m/s
MV E/A Ratio	В	
PV Vmax		m/s
PV maxPG		mmHg
AV Vmax		m/s
AV maxPG		mmHg

Follow-up Case Information Uniform Data Entry Form Vet-LIRN

Date (mm/dd/yy) Oct 10, 2018

EON/CC Number: 361,371

PATIENT INFORMATION	
Pet Name Operation Breed Golden Retriever Age in years (if < 6 months, put 0.5) Gender: Omer's Description of What Happened: Dr. Stern recothe same food	mmended he be tested, he was enrolled in the study, same reason B6 was tested, the 2 ate d; same sire B6 and B6 are half-brothers; B6 was tested 6/7/2018; B6 only when
Avercises he'll	Changes to the pet's diet prior to illness Yes Date Diet Change:
Appetite Increased Decreased Vomiting Yes Diarrhea Yes Duration of Diarrhea (days) Blood in Feces Fresh,Red Coffee Ground Black,Tarry	Water Consumption Increased Decreased Urination Increased Decreased Lethargy Yes Other: pant heavily when exercises
MEDICATIONS-Taken Prior to the Event and List medications mentioned by owner (e.g. NSAIDs, steroids, heartworm/flea prevention, antibiotics, etc.)	B6 B6 B6 Since
List probiotics, vitamins, or supplements mentioned by owner:	both dogs get B6 not started until April of 2018;

ollow-up Case Info /et-LIRN	ormation Uniform Data Entry Form	,	EON/CC Number:	861,371
Owner: B6		Pet's Name:	B6	
Γ-Any other foods the α	wner mentions were given to the animal di	uring this perio	od. (check all that ap	oly)
Commercial Dry	Product Use as Part of Diet:	☐ Primary	☐ Secondary	Occasional
List Product Label Nan	B6 Acana Pork and Squash-Singl last fed July 2018; in July fed to "The I			
Commercial Wet-C	anned Product Use as Part of Diet:	Primary	☐ Secondary	Occasional
List Product Label Nan	ne			
Commercial Wet-P	ouch Product Use as Part of Diet:	Primary	Secondary	Occasional
List Product Label Nan	ne:			
⊠ Commercial-Raw	Product Use as Part of Diet:	Primary	☐ Secondary	Occasional
List Product Label Nan	Orijen Freeze Dried Regional Red fed or mixed together at the same time, or			
☐ Homemade-Raw	Product Use as Part of Diet:	☐ Primary	☐ Secondary	Occasional
Describe Product Ty	pe:			
☐ Homemade-Cooke	ed Product Use as Part of Diet: [☐ Primary	☐ Secondary	Occasional
Describe Product Ty	pe:			
X Table Scraps/Huma ✓ occasional contribution	an Food (as an ution to diet) Describe Product Type(s): rav	v carrots, strin	g beans (now owner	adds broccoli, asparagus,
Pet Treat Products	Product Use as Part of Diet:	Primary	☐ Secondary	Occasional
	Product Label Name/Lot: Pur Bites Freeze	Dried Beef Liv	er; Canine Granola F	Date <u>first</u> fed
	How Product Administered:			Date last fed currently ge
Rawhides or Pig Ears	Product Label Name/Lot:			Date first fed
1 lg cars	How Product Administered:			Date last fed
☐ Marrow Bones	Product Label Name/Lot:			Date <u>first</u> fed
	How Product Administered:			Date last fed
☐ Chicken Jerky	Product Label Name/Lot:			Date <u>first</u> fed
23.07	How Product Administered:			Date last fed
☐ Duck Jerky	Product Label Name/Lot:			Date <u>first</u> fed
	How Product Administered:			Date last fed
Sweet	Product Label Name/Lot: Crump's Natura	ls Dried SP str	ips with cranberry	Date first fed
	How Product Administered:			Date last fed currently

Wner: B6			Pet's Name	e: B6		
Γ-continued-Any oth	ner foods the owner	mentions were giver	n to the animal d	uring this period. ((check all that apply)	
	Product Label I	Name/Lot: Dehydrat	ted apples, swee	t potatoes; frozen l	olueberry Date <u>first</u> fo	ed
Other Tr	eats How Product A	administered:			Date last fe	ed
	OSURES-Environmen nt . (check all that ap		oned by the Own	er Potentially Affec	cting the Animal's Ove	erall State of
	Outdoor	☐ Indoor & Outdoor	Carrion	Rodents	Grapes or Raisi	ns 🔲 Nuts
Plants	Trash	☐ Hunt	☐ Pet Shows	Sporting Events	Pet Recreation	Facilities
Livestock	Poultry	Reptiles	Pet Birds	☐ Small Mammals	Untreated Sur	face Water
Anti-freeze	☐ Mushrooms	Heavy Metals	☐ Ticks	Urban	Suburban	Rural
Comments: was			hock, no chemo	drug, no human vi	t, then neg, then posi itamins or pills, no alc	
Comments: was	n't treated; rauma, hyperthermia	a, radiation, electric s	hock, no chemo	drug, no human vi		
Comments: no t	n't treated; rauma, hyperthermia nese yew, foxglove,	a, radiation, electric s	shock, no chemo cup, lily of the val	drug, no human vi ley, or gossypol		
Comments: no t	n't treated; rauma, hyperthermia nese yew, foxglove,	a, radiation, electric s black locust, butterc	shock, no chemo cup, lily of the val	drug, no human vi ley, or gossypol / the owner.		
Comments: no t Japa	n't treated; rauma, hyperthermia nese yew, foxglove,	a, radiation, electric s black locust, butterc	shock, no chemo cup, lily of the val	drug, no human vi ley, or gossypol / the owner.	itamins or pills, no alc	
Comments: was no t Japa JSEHOLD-Signalme Animal T	n't treated; rauma, hyperthermia nese yew, foxglove,	a, radiation, electric s black locust, butterc	shock, no chemo cup, lily of the val	drug, no human vi ley, or gossypol	itamins or pills, no alc	
JSEHOLD-Signalme Animal 1 Animal 2	n't treated; rauma, hyperthermia nese yew, foxglove,	a, radiation, electric s black locust, butterc	shock, no chemo cup, lily of the val	drug, no human vi ley, or gossypol	leacted	
USEHOLD-Signalme Animal 1 Animal 2	n't treated; rauma, hyperthermia nese yew, foxglove,	a, radiation, electric s black locust, butterc	shock, no chemo cup, lily of the val	drug, no human vi ley, or gossypol	leacted	

3 of 3

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

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

Sent: 8/5/2018 1:32:12 AM

Subject: Acana Pork and Squash: B6 - EON-361371

A PFR Report has been received and PFR Event [EON-361371] has been created in the EON System.

2053236-report.pdf

A "PDF" report by name "2053236-report.pdf" is attached to this email notification for your reference.

Below is the summary of the report:

EON Key: EON-361371

Attachments:

ICSR #: 2053236

EON Title: PFR Event created for Acana Pork and Squash; 2053236

AE Date	04/12/2016	Number Fed/Exposed	2
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Unknown
Breed	Retriever - Golden		
Age	4 Years		
District Involved	PFR B6 DO		

Product information

Individual Case Safety Report Number: 2053236

Product Group: Pet Food

Product Name: Acana Pork and Squash

Description: This is not an event that suddenly occurred. My dog was diagnosed with dilated cardiomyopathy at 2 years old. I enrolled him in the taurine deficient study done by Dr. Joshua Stern at UC Davis. He was eating Acana Pork & Squash since he was a puppy. His taurine was tested (4-18) and his whole blood is **B6** and plasma **B6** Since his taurine level is low, I was told to supplement him with taurine and take him off the current dog food. I was told his food could cause taurine deficient dilated cardiomyopathy. He will be re-tested in the upcoming months. It is not know at this time if the dog food contributed to his disease or caused it. The study is still on going.

Submission Type: Initial

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

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

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

Product Name	Lot Number or ID	Best By Date
Acana Pork and Squash		

Sender information

B6

USA

To view this PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-361371

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

 $\underline{https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none\&e=0\&issueType=12\&issueId=378105$

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

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

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

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

Report Details - EON	I-361371			
ICSR:	2053236			
Type Of Submission:	Initial			
Report Version:	FPSR.FDA.PETF.V.V1			
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	associated with the product)	
Reporting Type:	Voluntary			
Report Submission Date	2018-08-04 21:25:50 EDT			
Reporter is the Animal Owner:	Yes			
Reported Problem:	Problem Description:	This is not an event that suddenly occurred. My dog was diagnosed with dilated cardiomyopathy at 2 years old. I enrolled him in the taurine deficient study done by Dr. Joshua Stern at UC Davis. He was eating Acana Pork & Squash since he was a puppy. His taurine was tested (4-18) and his whole blood is \$\frac{\mathbf{B6}}{\mathbf{a}}\$ and plasma \$\frac{\mathbf{B6}}{\mathbf{C}}\$ Since his taurine level is low, I was told to supplement him with tauri and take him off the current dog food. I was told his food could cause taurine deficient dilated cardiomyopathy. He will be re-tested in the upcoming months. It is not know at this time if the dog food contributed to his disease or caused it. The study is still on going.		
	Date Problem Started:	04/12/2016		
	Concurrent Medical Problem:			
	Outcome to Date:	Unknown		
Product Information:	Product Name:	Acana Pork and Squash		
	Product Type:	Pet Food		
	Lot Number:			
	Package Type:			
	Package Size:			
	Purchase Date:			
	Number Purchased:			
	Possess Unopened Product: Possess Opened			
	Product:			
	Storage Conditions:	The product is store	d in it's original bag and then placed in a air tight container.	
	Product Use Information:	Description: Last Exposure		
		Product Use Stopped After the Onset of the Adverse Event:	Yes	
		Adverse Event Abate After Product Stop:		
		Product Use Started Again:		
		Perceived Relatedness to Adverse Event:	Possibly related	
		Other Foods or Products Given to the Animal During This Time Period:		
	Manufacturer /Distributor Information:			

	Purchase Location Information:	Name: Address:	Pet Valu	
			B 6	
			United States	
Animal Information:	Name:	В6		
	Type Of Species:	Dog		
		Retriever - Golden		
	Gender:			
	Reproductive Status:			
		67 Pound		
	}	4 Years		
	Assessment of Prior Health:			
	Number of Animals Given the Product:	2		
	Number of Animals Reacted:			
	Owner Information:			
	Healthcare Professional	Practice Name:	B6	
	Information:	Contact:	Name: B6	
		Address:		
		Address.	B6	
			United States	
		Type of Referred veterinarian Veterinarian:		
		Date First Seen:	04/19/2016	
		Permission to Release Records to FDA:	Yes	
Sender Information:	Name:	В6		
	Address:	B6		
		1		
	Contact:	Phone: Email:	B6	
	Permission To Contact Sender:	Yes		
	Preferred Method Of Contact:			
	Reported to Other Parties:	Store/Place of Purchase Manufacturer		
Additional Documents:	III (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			

From:	Jones, Jennifer L			
To	(FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo>			
To:	B6			
Sent:	8/7/2018 8:18:14 PM			
Subject:	800.267-FDA Case Investigation for B6 (EON-361371)			
Attachments:	03-Vet-LIRN-Network ProceduresOwners-12.22.2015.pdf			
h				
Good afternoon				
Thank you for sub	mitting your consumer complaint to FDA. I'm sorry to hear about B6 illness.			

- Full Medical Records
 - Please contact <u>your veterinarian (primary veterinarian and cardiologist/specialist)</u> and ask them to email (preferred) or fax (301-210-4685) a copy of **B6** entire medical history (not just this event).
- After we review the records, we may request a Phone interview about B6 diet and environmental exposures
 - o The interview will help us better understand the details in your case.
 - We would like to collect the leftover food. How much is available?

I attached a copy of our Vet-LIRN network procedures. The procedures describe how Vet-LIRN operates and how owners help with our case investigations.

Please respond to this email so that we can initiate our investigation.

Thank you kindly,

Dr. Jones

Jennifer L. A. Jones, DVM

Veterinary Medical Officer
U.S. Food & Drug Administration
Center for Veterinary Medicine
Office of Research
Veterinary Laboratory Investigation and Response Network (Vet-LIRN)
8401 Muirkirk Road, G704
Laurel, Maryland 20708

Laurel, Maryland 20708 new tel: 240-402-5421 fax: 301-210-4685

e-mail: <u>jennifer.jones@fda.hhs.gov</u>

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





Network Procedures for Owners

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

The following items are explained below:

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

1. General Introduction:

1.1. What is the goal of the case investigation?

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

1.2. What is the focus of a case investigation?

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

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

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

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

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



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

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

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

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

2. Billing:

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

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

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

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

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

No, we cannot pay for treatment or cremation.



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

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

3. Step by Step Process:

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

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

Vet-LIRN requests that:

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

4. Types of Services and Tests:

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

A veterinary examination may include:

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

4.2. Will your animal be tested more than once?



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

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

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

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

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

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

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

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

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

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

	B6 Jones, Jennifer L
Sent:	8/7/2018 8:35:28 PM
Subject:	Re: 800.267-FDA Case Investigation for B6 (EON-361371)
Hi I have some quest Thanks B6	ions before we go forward, can you please contact me at B6
Original Messag	ge
	DA Case Investigation for B6 (EON-361371)
Good afternoon	B6
Thank you for subm	nitting your consumer complaint to FDA. I'm sorry to hear about B6 illness.
As part of our inves	tigation, we'd like to request:
ask ther fax (301 • <u>After we revi</u> environmenta	contact <u>your veterinarian (primary veterinarian and cardiologist/specialist)</u> and m to email (preferred) or -210-4685) a copy of B6 entire medical history (not just this event). ew the records, we may request a Phone interview about B6 diet and
We would like to	collect the leftover food. How much is available?
	f our Vet-LIRN network procedures. The procedures describe how Vet-LIRN owners help with our case investigations.
Please respond to	this email so that we can initiate our investigation.
Thank you kindly,	
Dr. Jones	

Veterinary Medical Officer U.S. Food & Drug Administration Center for Veterinary Medicine Office of Research Veterinary Laboratory Investigation and Response Network (Vet-LIRN) 8401 Muirkirk Road, G704 Laurel, Maryland 20708 new tel: 240-402-5421

fax: 301-210-4685

e-mail: jennifer.jones@fda.hhs.gov

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





Report Details - EON-	358522				
ICSR:	2051557				
Type Of Submission:	Initial				
Report Version:	FPSR.FDA.PETF.V.V1				
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	associated with the product)		
Reporting Type:	Voluntary				
Report Submission Date:	2018-07-09 08:50:19 EDT				
Reported Problem:	Problem Description:				
	Date Problem Started:	06/29/2018			
	Concurrent Medical Problem:				
	Outcome to Date:	Stable			
Product Information:	Product Name:	Halo grain-free dry food (exact variety unknown)			
	Product Type:	Pet Food			
	Lot Number:				
	Package Type:	BAG			
	Product Use Information:				
	Manufacturer /Distributor Information:				
	Purchase Location Information:	144444444444444444444444444444444444444			
Animal Information:	Name:	B6			
	Type Of Species:	: Dog			
	Type Of Breed:	; Great Dane			
	Gender:				
	Reproductive Status:				
	-2 8000000000000000000000000000000000000	t: 64 Kilogram			
		: B6 Years			
	Assessment of Prior Health:	Unknown			
	Number of Animals Reacted:	4			
	Owner Information:	Owner Information provided:	Yes		
		Contact:	Name:		
			Name: B6		
		Address:	B6		
			United States		
	Healthcare Professional	Deadis News	Tuffe Cummings School of Voterings, Medicine		
	Information:	ucuee mamer	Tufts Cummings School of Veterinary Medicine		
		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		
	Addre	200 Westboro Rd		
		North Grafton	\u	200
		Massachusetts		nananan nananan
		01536		
		United States		Anna Maria
	61-		F000074F00	1
	Conta	ct: Phone:	5088874523	
		Em	nail: lisa.freeman@tufts.edu	
	Permission To Conta	ct Yes		2
	Send			
	Preferred Method	of Email		
	Conta	et.		PART COLOR
	Reported to Oth	er None		
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Additional Documents:				
Additional Documents.	3			
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From:	Reimschuessel, Renate
To:	Jones, Jennifer L; Peloquin, Sarah
Sent:	8/25/2018 11:28:23 AM
Subject:	FW: 800.267-FDA Case Investigation for B6 (EON-358522)
[‡] yi	
Phone 1-240-	
Fax 301-210-4 http://www.fda.gov/Animal	Veterinary/ScienceResearch/ucm247334.htm
Sent: Friday, Aug To: Reimschuess Cc: Freeman, Lis	Lisa [mailto:Lisa.Freeman@tufts.edu] gust 24, 2018 5:44 PM sel, Renate <renate.reimschuessel@fda.hhs.gov> sa <lisa.freeman@tufts.edu> 0.267-FDA Case Investigation for B6 (EON-358522)</lisa.freeman@tufts.edu></renate.reimschuessel@fda.hhs.gov>
the owner and sh	y on this – I didn't want to contact the owner too soon since B6 died B6 . I just spoke to e's fine to have you contact her
She has some of Please let me kno	the food still available and will hold it until you contact her. ow if you need additional information. I can't remember if I already sent you all of his medical of the know and I'll send
	, DVM, PhD, DACVN eterinary Nutritionist TM
Cummings Schoo Friedman School	ol of Veterinary Medicine of Nutrition Science and Policy Translational Science Institute
Tufts University www.petfoodolog	
Sent: Tuesday, J	essel, Renate < <u>Renate.Reimschuessel@fda.hhs.gov</u> > uly 17, 2018 11:44 AM a < <u>lisa.freeman@tufts.edu</u> > 7-FDA Case Investigation for B6 (EON-358522)
As part of our inverse Full Medic	
this e • Phone inte	se email (preferred) or fax (301-210-4685) a copy of B6 <u>entire</u> medical history (not just event), including any referral diagnostics. <u>erview</u> about <u>B6</u> diet and environmental exposures se <u>confirm permission to contact the owner</u> .

The interview generally lasts 30 minutes.

I attached a copy of our Vet-LIRN network procedures. The procedures describe how Vet-LIRN operates and how veterinarians help with our case investigations.

Please respond to this email so that we can initiate our investigation.

Thank you kindly,

Dr. Reimschuessel

Renate Reimschuessel V.M.D. Ph.D.

Director: Vet-LIRN

(Veterinary Laboratory Investigation and Response Network)

Center For Veterinary Medicine, FDA, 8401 Muirkirk Road, Laurel, MD 20708

Phone 1-240-402-5404 Fax 301-210-4685

EMAIL: renate.reimschuessel@fda.hhs.gov

Vet-LIRN

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

Phish-Pharm

 $\underline{http://www.fda.gov/AnimalVeterinary/ScienceResearch/ToolsResources/Phish-Pharm/default.htm}$

Aquaculture

http://www.fda.gov/AnimalVeterinary/ScienceResearch/ResearchAreas/ucm130892.htm

From:	Reimschuessel, Renate
То:	Jones, Jennifer L; Peloquin, Sarah
Sent:	8/25/2018 11:29:38 AM
Subject: Attachments:	FW: 800.267-FDA Case Investigation for B6 (EON-358522) B6 cardio appt B6 pdf; B6 cardio consult B6 pdf; B6 discharge B6 pdf; B6 cardio consult B6 pdf; B6 pdf
Phone 1-240-40 Fax 301-210-468	
	sa [mailto:Lisa.Freeman@tufts.edu] st 24, 2018 5:48 PM
•	, Renate <renate.reimschue<u>ssel@fda.hhs.gov></renate.reimschue<u>
	67-FDA Case Investigation for B6 EON-358522)
Sorry – I see you do	need records
Here they are	, need records
Lisa	
Lisa M. Freeman, D	NVM PhD DACVN
	erinary Nutritionist TM
Professor	Amary Maditionion
	of Veterinary Medicine
	Nutrition Science and Policy
	ranslational Science Institute
Tufts University	
www.petfoodology.c	<u>ng</u>
From: Reimschues	sel, Renate < <u>Renate.Reimschuessel@fda.hhs.gov</u> >
	/ 17, 2018 11:44 AM
Subject : 800.267-F	< <u>lisa.freeman@tufts.edu</u> > DA Case Investigation for B6 (EON-358522)
Dear Dr. Freeman,	
	nitting your consumer complaint to FDA. I'm sorry to hear about B6 illness.
•	tigation, we'd like to request:
• <u>Full Medical</u>	
	email (preferred) or fax (301-210-4685) a copy of B6 entire medical history (not just ent), including any referral diagnostics.
	rity, including any referral diagnostics. riew_about
	confirm permission to contact the owner.
	erview generally lasts 30 minutes.
	f our Vet-LIRN network procedures. The procedures describe how Vet-LIRN operates and
	elp with our case investigations. this email so that we can initiate our investigation.
こっていっこ しこういしいしい	una eman ao unai we can muaic dul mycaudaidh.

Thank you kindly, Dr. Reimschuessel

Renate Reimschuessel V.M.D. Ph.D.

Director: Vet-LIRN

(Veterinary Laboratory Investigation and Response Network)

Center For Veterinary Medicine, FDA, 8401 Muirkirk Road, Laurel, MD 20708

Phone 1-240-402-5404 Fax 301-210-4685

EMAIL: renate.reimschuessel@fda.hhs.gov

Vet-LIRN

 $\underline{http://www.fda.gov/AnimalVeterinary/ScienceResearch/uem247334.htm}$

Phish-Pharm

http://www.fda.gov/AnimalVeterinary/ScienceResearch/ToolsResources/Phish-Pharm/default.htm

Aquaculture

 $\underline{http://www.fda.gov/Animal/Veterinary/ScienceResearch/ResearchAreas/ucm130892.htm}$

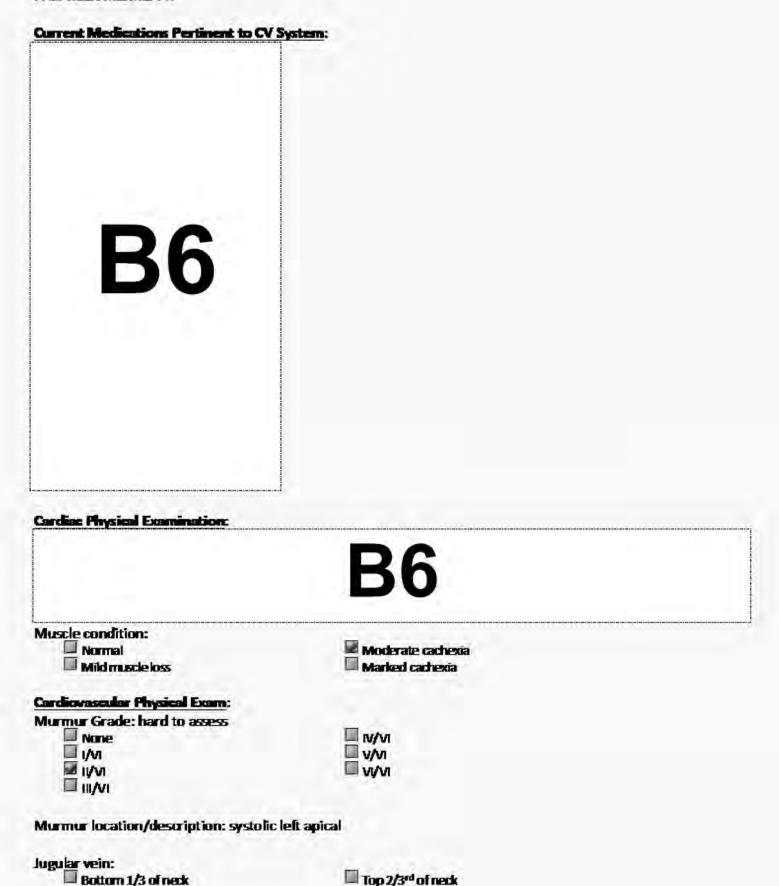
Cardiology Liaison: 508-887-4696

DC	
B6	
Patient Dt B6	
B6 Canine	
B6 Years Old Male (Neut) Harlequin	ered) Great Dane

Cardiology Appointment Report

Date B6	
Attending Cardiologist:	
John E. Rush DVM, MS, DACVIM (Cardiology), DACV	/ECC
B6	
	atomicano ai
Cardiology Resident:	***************************************
Cardiology Technician:	
B6	
D0	
Student: B6 V19	
RR has been around 40bpm. DCM Afib CHF	
General Medical History: Presented last friday for DCM an	elatetatetatetatetatetatetatetatetatetat
Improved or B6 in the hospital, sent home on	B6
Diet and Supplements: Hill's Ideal Balance- not eating well	at all
Cardiovascular History:	
Prior CHF diagnosis? Y	
Prior ATE? N	
Prior arrhythmia? Y	
Cough? N	
Shortness of breath or difficulty breathing? Y/N	
Syncope or collapse? N	
Sudden onset lameness? N, difficulty on steps	
Exercise intolerance? self-limiting, not running around	

Middle 1/3 of neck



Arterial pulses:	
Week	■ Bounding
Fair	Pulse deficits
Good	Pulsus paradious
Strong	Other:
i⇒ suug	COM.
Arrhythmia: afib	
None	☐ Bradycardia
Sirus arrhythmia	Tachycardia, irregular
Premature beats	a ranycarua, rreguar
iii Hemaureusas	
Gallop:	
₩ Yes	Pronounced
No	Other:
Intermittent	= odes.
- meanitualit	
Pulmonary assessments: wheezes?	
Eupneic Eupneic	Pulmonary crackles
☐ Mild dyspnea	Wheeves
Marked dyspnea Marked dyspnea	Upper airway stridor
	Upper arway striour
Normal BV sounds	
Abdominal exam:	
Normal	Ascites
Hepatomegaly	Marked ascites
Abdominal distension	with mankers address
ADDITION USEBEEN	
Problems:	
Afib	
DCM	
CHF	
Diagnostic plan:	
Echocardiogram/fluid check	Dialysis profile
Chemistry profile	Thoracic radiographs
■ ECG	MT-proBNP
Renal profile	Troponin I
☐ Blood pressure	Other tests:
Echocardiogram Findings:	
	B6
Assessment and recommendations:	
	appears worse than at discharge last week. Discussed options
	bdominocentesis, admit for CHF therapy) v abdominocentesis and
adjust home medications v adjust home	medications without abdominocentesis v euthanasia due to poor
long term prognosis. Ultimately blood w	ork was submitted and abdominocentesis was performed (3.2 L
straw colored fluid). Recommend increase	
B6	Recheck renal values and fluid check on Monday. If
	THE PERSON NAMED IN COLUMN 1 AND THE PERSON NAMED IN COLUMN 1 AND

persistent rapi	id Al-ventricular response rate when	CHF is better con	trolled then recommend increasing
dose of	B6		
B6	given at beginning of exam, and	B6	given after abdominocentesis.
Final Diagnosi	<u>s</u> :		
DCM, CHF (ast	ites, presumed pulmonary edema)		
Atrial fibrillation	on .		
Heart Failure (Classification Score:		
ISACHC Classif	ication:		
■ la		llato	
■ lb			
Πn			
ACVIM Classifi	cation:		
■ A		2	
■ B1.)	
■ B2			

AT TUFTS UNIVERSITY Cardiology Liaison: 508-887-4696

B6 Patient IX B6 B6 Canine B6 Years Old Male (Neutered) Great Harlequin BW: Weight (kg) 72.20

Cardiology Inpatient

Date	B6	77	
i		(kg) 72.20	
		(46)	
Attend	ing Cardi	doeist	
			CVIM (Cardiology), DACVECC
	(min/min/m/m/m/m/m/m/m		
		B	6
			9
L		**********************	
Cardid	logy Resi	lent:	
[B6	
į		DO	
L			
Thorac	ic radiog	aphs available for	review?
	Yes-in S		
	Yes-in P	ACS	
	No		

Presenting complaint and important concurrent diseases: DCM/a-fib referral

P is presenting for DCM and a fib. O says that about a week ago, P noticed that he started coughing after eating some food. O noticed that a few days ago he started acting lethargic and not really acting himself. This morning he seemed to get worse, had some labored breathing. O is not sure if P ate today. P is still drinking normally and urinating and deficating.

Prior medi	al history:
! !	

Halo dry food grain free once daily

STOP - remainder of form to be filled out by Cardiology

Cardiovascular Physical Exam	
Murmur Grade:	
None	□ IV/VI
□ INI	■ v/vi
₩ II/VI	□ vi∧i
□ III/VI	_ •••
norman en en en en en en en en en en en en en	
	3 9
lugular vein:	
■ Bottom 1/3 of neck	■ Top 2/3 of neck
☐ Middle 1/3 of neck	
Arterial pulses:	
■ Weak	Bounding
Fair	Pulse deficits
Good	Pulsus paradoxus
☐ Strong	Other (describe):
Arrhythmia:	
None	■ Bradycardia
Sinus arrhythmia	☑ Tachycardia, irregular - sounds typical of atrial fibrillation
Premature beats	
Gallop:	
☐ Yes	Pronounced
■ No	Other:
Intermittent	- CAIRE.
Pulmonary assessments:	
Eupneic	Pulmonary Crackles
Mild to moderate dyspnea	Wheezes
Marked dyspnea	Upper airway stridor
Normal BV sounds	Other auscultatory findings:
- Notifical DV Sparings	- One washings
Abdominal exam:	
	Abdominal distension
Normal	
	Mild ascites

RG

	DU		111
Assessment and recommendations			
Echocardiogram reveals advanced D	MVD with resulting effus	ions and suspecte	d pulmonary edema, and
atrial fibrillation. Recommend		B6	
	B6		
B6 Recheck ren	al values and electrolytes	today or tomorro	w. Recheck blood work,
ECG, fluid check in 1-2 weeks. Taurir	ne whole blood submitted	lunder B6	Recommend changing
diet to a standard protein, non grain	free, main stream brand.		
Treatment plan:			
		1	
	0.0		
	36		
	<i>-</i>		
Final Diagnosis:			
DCM, CHF (suspect biventricular)			
Atrial fibrillation			
The DCM may have a nutritional con	tribution		
Heart Failure Classification Score:			
ISACHC Classification:	- W		
□ la	■ IIIa		
□ Bi	□ ((Bi		
□ II			
ACVIM CHF Classification:	TH		
A	 C C		
□ B1	□ D		
□ B2			
M-Mode	-		
IVSd			cm
LVIDd			om
LVPWd			om
IVSs			om
LVIDs			om
LVPWs		DC	om
%FS		B6	%
Ao Diam			om
LA Diam			om
LA/Ao			275
Max LA			cm
EPSS			cm
and sold	i.	F	44.0

M-Mode Normalized	7(*)*(*(*)*(*)***]	60 00 0 00 V
IVSdN		(0.29 - 0.52)
LVIDdN		(1.35 - 1.73) !
LVPWdN		(0.33 - 0.53)
IVSsN	B6	(0.43 - 0.71) !
LVIDsN	100	(0.79 - 1.14) !
LVPWsN		(0.53 - 0.78) !
Ao Diam N		(0.68 - 0.89)
LA Diam N		(0.64 - 0.90) !
<u>20</u>		
SAIA		cm
Ao Diam		om
SA LA / Ao Diam	11	
IVSd		om
LVIDd		om
LVPWd		on
EDV(Teich)		ml
IVSs		om
LVIDs		an
LVPWs		om
ESV(Teich)	110	ml
EF(Teich)	i l	%
%FS		%
SV(Teich)		ml
TAIR TAX		an
LVAd LAX		on
LVEDV A-L LAX		ml
LVEDV MOD LAX		ml
IVIs LAX	B6	cm
LVAs LAX	D 9	om
LVESV A-L LAX		ml
LVESV MOD LAX		ml
HR		BPM
EF A-L LAX		%
LVEF MOD LAX		%
SV A-L IAX		ml
SV MOD LAX		ml
CO A-L LAX	100	∀min
CO MOD LAX	0.6	/min
Doppler		
MR Vmax		m/s
MR maxPG		mmHg
E'		m/s
PV Vmax		m/s
PV maxPG		mmHg
AV Vmax		m/s
AV maxPG		mmHg

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

Discharge Instructions

Patient	Owner		
Plane B6	Mames B6		Patient ID: B6
Species: Canine	Address: DC		Temperature in the instance of the second of
Harlequin Male (Neutered) Great Dane Birthdate: B6	B6	<u></u>	
Attending Cardiologist: John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC		
B6			
Cardiology Resident:			
B6	URÎ MA (VIII MA (VIII MA (VIII MA (VIII MA (VIII MA (VIII MA (VIII MA (VIII MA (VIII MA (VIII MA (VIII MA (VIII	1	
Student: B6 V19			
Cardiolner Technician:	ana an		
B6			
Discharge Date: B6 Diagnoses: Dilated cardiomyopathy (DOM) with congrating fibrillation	stive heart failure		
Case summary:			
Thank you for bringing B6 to the Tufts and in his belly along with an abnormal he			
overnight with cardiac medications. Today			ns crest and ne was beated
B6 has been diagnosed with a primar common in large and giant breed dogs and function, and enlargement of the upper of which can be life threatening and also required point of congestive heart failure, meaning disease and we cannot reverse the change changes to the diet to make your dog common primary and second common primary a	y heart muscle disease called d is characterized by thirming nambers of the heart. Many d uire medical management. Th that fluid is backing up into the s to the heart muscle, howev	dilated cardiomyop of the walls of the l dogs with DOM will a he heart enlargeme he lungs or belly. Ur wer we can use cardi	heart, reduced cardiac pump also have significant annythmias int has now progressed to the infortunately this is a progressive
There has been some recent association be taurine supplementation and a change in o	[시간 144 [시간 시간 기본 시간 기본 기본 시간 144] [시간 기본 기본 기본 기본 기본 기본 기본 기본 기본 기본 기본 기본 기본		
normally atypical DOM breeds. We susper would like to supplement him with B6	t that B6 has DCM assoc	ciated with his breen	

	ring at home.
0	We would like you to monitor B6 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.
0	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.
0	An increase in breathing rate or effort will usually mean that you should give an extra dose ofB6
	(tasic). If difficulty breathing is not improved by within 30-60 minutes after giving extra B6 then we recommend that a recheck exam be scheduled and/or that your dog be evaluated by an emergency clinic. 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/).
0	We also want you to watch for wealness or collapse, a reduction in appetite, worsening cough, or distention of the
	belly as these findings indicate that we should do a recheck examination.
0	You can use a floppy tape measure to monitor the size of B6 belly, and if it starts to get bigger please let us know.
0	If you have any concerns, please call or have B6 evaluated by a veterinarian. Our emergency clinic is open 24
	hours/day.
	News and
	B6

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.turits.edu/heartsmart/diet/)
We recommend switching B6 to a diet that is not billed as "grain-free", since there is a correlation between some grain-free diets and some forms of heart disease (typically dilated cardiomyopathy). We recommend feeding a standard protein maintenance diet from a major company such as Purina, Hills, or Royal Canin. The heartsmart website has lists of some over-the-counter diets that are good for cardiac disease.
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 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.
Rerheck Visits:
A recheck visit has been scheduled for next B6 at 3pm with our Cardiology Service. At this visit we will check B6 breathing effort, do a blood test to recheck kidney values, check for fluid buildup around his lungs, and check an ECG. A recheck echocardiogram is recommended in 3-4 months as long as B6 is doing well at home.
Thank you for entrusting us with B6 care-he is such a gentle giant. Please contact our Cardiology liaison, B6 at (508) 887-4696 or email us at cardiovet@lults.edu for scheduling and non-emergent questions or concerns.
Please visit our HeartSmart website for more information
http://vet.tuits.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 Tripls:
Clinical trials are studies in which our veterinary doctors work with you and your pet to investigate a specific disease process or a promising new test or treatment. Please see our website: vet tufts edu/cvmc/dinical-studies
Case: B6 Owner: B6 Discharge Instructions

Diet suggestions:

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

Discharge Instructions

Patient	Owner		
Mame B6	Mane	B6	Patient DC B6
Species: Canine	Address	B6	
Harlequin Male (Neutered) Great Dane	Ĺ		j
Birthdate: B6			
Attending Cardiologist: John E. Rush DVM, MS, DACVIM (Cardiology), DA	NCVECC	
B6	n man ar commission an Alba Tail Ar ar an ea		
Cardiology Resident			
B6			
P. J. J. P. C. Lung			
Student: B6 V19 Cardiology Technician:			
B6			
Date: B6	onet.		
Diagnoses:			
 Dilated cardiomyopathy (DOM) w 	ith congestive l	heart failure	
O Atrial Fibrillation			
Abdominal effusion (ascites) Suspected pulmorary edema			
o suspense harman desire			
Clinical findings:			
Thank you for bringing B6 in for evalu	ation of his cor	ngestive heart failur	redue to DCM. You reported noticing same
increased respiratory rate and effort. Addi	Charles and a court and a bank and a last a	Desiries	
[[] - [] - [] - [] - [] - [] - [] - [] - [] - [] - [] - [] - [] - [] - [] - [] - []	Vietnieleiereie		ncreased respiratory rate and effort. He had
	n (an abnorma	heart rhythm). His	sabdomen was distended and a fluid wave
was palpated.			
We performed blood work to evaluate	B6 kidneva	nd liver values. His	kidney values are mildly elevated which can be
			evalues over time and may have to make
adjustments to the medications as elevate			
	سيسال بديات		d free fluid in abdomen and suspected fluid
			dema is took take chest radiographs (yrays).
We were able to remove more than three	and the same of th		THE STATE OF THE PROPERTY OF T
			n, B6 to his regimen and increased
			ange in medications will control B6
symptoms.			- Martin Committee Committ

We would like you to monitor B6 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. In general, most dogs with heart failure that is well controlled have a breathing rate at rest of less than 30 breaths per minute. In addition, the breathing effort, noted by the amount of belly wall motion used for each
breath, is fairly minimal if heart failure is controlled.
An increase in breathing rate or effort will usually mean that you should give an extra dose of B6
If difficulty breathing is not improved by within 30-60 minutes after giving extr. B6 then werecommend
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.
Wesent you home with a B6 tape measure" that you can use at home to monitor the size of his belly. If it
starts to get bigger please let us know.
If you have any concerns, please call or have your dog evaluated by a veterinarian. Our emergency clinic is open 24 hours/day.
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://vet.tufts.edu/heartsmart/diet/)
We have sent you home with a couple cans of dog food that you can use at home to tempt B6 to eat.
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 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 stremuous 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 scheduled for B6 at 3pm on B6 with B6. At this visit we will want to check treathing
effort and heart function, do a blood test, and probably recheck a blood pressure. A recheck echocardiogram (heart
ultrasound) is recommended in 6 to 9 months.
Thank you for entrusting us with B6 care. He is such a sweet boy. Please contact our Cardiology liaison, B6
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://wei.tufis.edu/heartsmart/
Prescriptivo 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 Fond:
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
All DOMEST PARTY PRODUCTS AND ADMINISTRATION OF THE PARTY PA
Case: B6 Owner: B6 Discharge Instructions

1D: Name::

25 mm/s

10 mm/mY

Name

25 mm/s 10 mm/mV

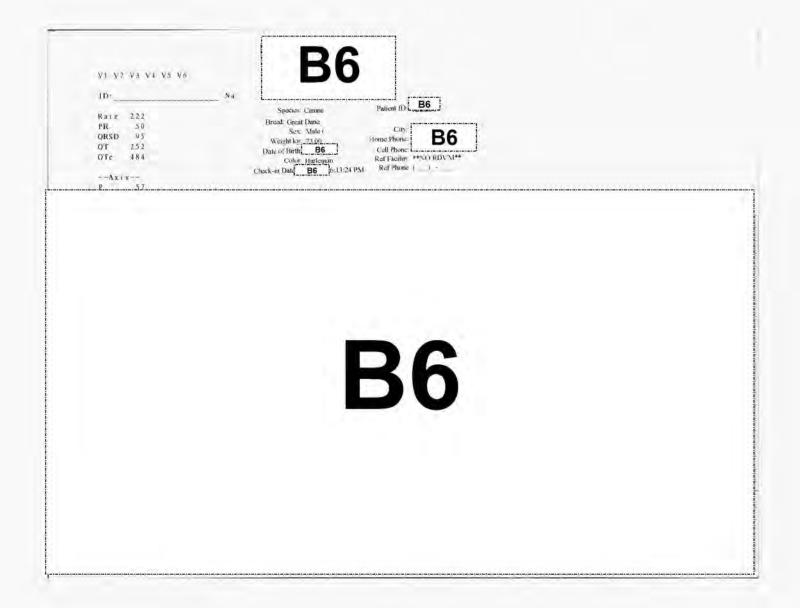
10 mm/s 10 mm/mV **B6**

10 Name 10 Name

2.5 mm/s 5.6 mm/s 10 mm/mV 10 mm/mV

B6

25 mm/s 10 mm/mV



Patient ID: Patient Name: Inalyzed: Inalyzer ID: Isample Type Panel Operator: Iteleaser:	B6 O7:48:29 PM B6 Venous Critical Care 123456 auto	B6	
equiredFields	Option	nal Fields	
easured			
Test Value	Units	Reference Range	Flags
pH			
pCO2	mmHg	- 9	
pO2	mmHg		
SO2%		the state of the s	
Hct	%		
Hb	g/dL	*	
Na+	mmol/L		
K+	mmol/L		
CI- B6	mmol/L		
Ca++	mmol/L		
Mg++	mmol/L		180 101 11
Glu	mg/dL	-	
Lac	mmol/L		
BUN	mg/dL		
Creat	mg/dL		
TCO2	mmol/L		
<u></u>			
alculated			
Test Value		Reference Range	Flags
nCa	mmol/L		
nMg	mmol/L	2011	
Gap	mmol/L	**	
Ca++/Mg++	mol/mol		
BUN/Creat	mg/mg		
BE-ecf	mmol/L		
BE-b	mmol/L		
SBC B6	mmol/L	*	
HCO3-	mmol/L		
P50	mmHg		
O2Cap	mL/dL		
O2Ct	mL/dL		
A	mmHg	4	
Osm	mOsm/kg	4.	
L			
THE RESIDENCE OF THE PARTY OF T			
A	mmHg	4	7/7

Cummings Veterinary Medical Center

Foster Hospital for Small Animals

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

Client:		
Veterinaria	n RG	
Patient ID:	DU	
Visit ID:		

Patient:	B6 1
Species:	Canine
Breed:	Great Dane
Sex;	Male (Neutered)
Age:	B6 Years Old

Lab Results Report

Chemistry 21 (Cobas) B6 4:56:201		Accession ID: B6	
Test	Results	Reference Range	Units
GLUCOSE	and at a track (b) and	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	
SODIUM		140 - 150	mEq/L
CHLORIDE	B6	106 - 116	mEq/L
POTASSIUM		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

stringsoft.

1/1

В6

B6

Printed Friday, August 24, 2018

linic:	Patient: B6
	Tag:
	Species: Canine, Great Dane Sex: male/neutersd
	Age: 4 yrs, DOB; B6
Kh	Weight: 67.2 Kg Color: Merle
B6	Last visit: B6 Referred By:
	resolution 29:
	B6
edical Record Entries:	- De
B6 4:18 PM	Examination Recheck (Brief) - PATIENT WAS SEEN IN: B6
	PRESENTING COMPLAINT: Tachycardia
	HISTORY:
	B6 4y MI Great Dane, presented as a transfer for evaluation of tachycardia. For the
	past week. B6 has been intermittently coughing/vomiting clear liquid that occasionally contains kibble. MO has been intermittently feeding him kibble by dropping
	it over him while he's in a kennel and thought these episodes were secondary to him
	breathing in kibble occasionally. Today. B6 was much more lethargic than usual and
	was having difficulty getting up and down stairs. He was brought to an rDVM, where an irregular, fast heart rhythm was auscultated and he was transferred to B6 for continued
	evaluation.
	B6 has a history of tail B6 MO reports no other health issues, no
	current medications.
	B6 is fed a grain-free diet (Halo).
	SUBJECTIVE:
	QAR, anxious, clinically euhydrated
	B6
	H/L: Irregular heart rhythm, intermittent dropped pulses; harsh BV sounds bilaterally;
	normal resp effort/panting
	B6
	DU
	DU

DIAGNOSTICS COMPLETED:

ECG: tachycardia, concern for absent/buried P waves, irregular R-R interval TFAST: Pleural fluid, minimal left ventricular contractility, enlarged left atrium AFAST: Peritoneal fluid

ASSESSMENT:

Concern for DCM +/- a-fib Peritoncal and pleural effusion

CLIENT COMMUNICATION:

Informed owner of concern for DCM. Strongly recommend a cardiology consultation. Offered treatment here, but ultimately will need follow up with cardiology. Discussed risk of sudden cardiac arrest. We've been seeing an association between grain-free dicts and DCM, so may discuss submitting blood for a taurine level. If taurine deficient, may be able to reverse illness. There is a high likelihood that this is genetic, which will require lifetime treatment with medications. MO elected to transfer to Tufts for further workup.

EINANCIAL COMMUNICATION: B6	
rDVM COMMUNICATION (minimum of every 72hrs Initial rDVM or most recent contact: B6	or after major event):
PLAN:	
B6	
DISCHARGE PLAN: Transfer to Tufts B6 IVC in place	
	DVM)

Patient History Report - B6 B6 - Owner

19280

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:	

http://www.vetmed.ucdavis.edu/vmb/aal/aal.html

Company Name: Tufts Cummings School of Vet	Med - Clinical Pathology Laboratory
Address: 200 Westboro Road	
North Grafton, MA 01536	
Email:_ clinpath@tufts.edu	
Tel: 508-887-4669	Fax: 508-839-7936
Billing Contact: B6	TAX ID:
Email: B6	Tel: B6
Patient Name: B6 Species: Canine	
Owner's Name B6	
	Urine Food Other:
Test Items: Complete Amin	Other:
Taurine Results (nmol/ml)	7-1

Reference Ranges (amol/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	-120	>40	200-350	>150

B6 pat Race

B6 11:16 AM

SHIP W ICE PACKS, TAURINE
(WHOLE BLOOD)
Lithium Heparin

From: To: Sent: Subject:	Peloquin, Sarah B6 8/27/2018 1:39:38 PM 800.267 FDA Case Investigation for B6 EON-358522)
Good morning	B6
I have received m	nedical records from Dr. Lisa Freeman for B6 case. I'm so, so sorry for your loss.
	a primary veterinarian prior to his diagnosis? If so, please ask them to email (preferred) or fax a copy of B6 entire medical history.
After I receive ful	I records, I will review them in their entirety and may request a phone interview with you.
Please let me kno	ow if you have any questions.
Thanks,	
Dr. Peloquin	
Sarah K. Peloq Veterinary Medical	
U.S. Food & Drug Ad Center for Veterinary Office of Research	

tel: 240-402-1218 fax: 301-210-4685

e-mail: sarah.peloquin@.fda.hhs.gov

From:	Rotstein, David	
То:	Palmer, Lee Anne; Carey, Lauren; Queen, Jackie L; Ceric, Olgica; Jones, Jennifer L; Nemser, Sarah; Glover, Mark	
Sent:	7/13/2018 1:13:48 PM	
Subject:	Fwd: Earthborn Holistic grain free: B6 - EON-359060	
Attachments:	2051931-report.pdf	

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

Date: July 12, 2018 at 8:20:24 PM EDT

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

<HQPetFoodReportNotification@fda.hhs.gov>, B6
B6

Subject: Earthborn Holistic grain free: Patricia Engler - EON-359060

A PFR Report has been received and PFR Event [EON-359060] has been created in the EON System.

A "PDF" report by name "2051931-report.pdf" is attached to this email notification for your reference.

Below is the summary of the report:

EON Key: EON-359060

ICSR #: 2051931

EON Title: PFR Event created for Earthborn Holistic grain free bison lamb pacific; 2051931

AE Date	В6	Number Fed/Exposed	5
Best By Date		Number Reacted	4
Animal Species	Dog	Outcome to Date	Died Euthanized
Breed	Setter - Gordon		
Age	B6 Years		
District Involved	PFR-Denver DO		

Product information

Individual Case Safety Report Number: 2051931

Product Group: Pet Food

Product Name: Earthborn Holistic grain free, bison, lamb, pacific

Description: B6 was diagnosed with Taurine Deficit Dilated Cardiomylopathy after attempts to save in him in the ER and hospital stay of 4 days he went into he went into congestive heart failure and was euthanized. He exhibited symptoms of Taurine deficit however was treated for individual symptoms until he collapsed and he had an echo cardiogram which showed the DCM. His mother and sister started to show Taurine deficit symptoms at the same time. Their dog food was switched immediately and placed on Taurine and I carnitine supplements. They all had been on grain free food their whole lives. In hindsight and knowing now what I've learned all too late for B6 I believe two of my other dogs also suffered from this but it wasn't known at the time the possible cause.

Submission Type: Initial **Report Type:** Both

Outcome of reaction/event at the time of last observation: Died Euthanized

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

Product Name	Lot Number or ID	Best By Date
Earthborn Holistic grain free, bison, lamb, pacific		

Sender information

B6

USA

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

https://eon.fda.gov/eon//browse/EON-359060

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

 $\underline{https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none\&e=0\&issueType=12\&issueId=375684$

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-	359060						
ICSR:	2051931						
Type Of Submission:	Initial						
Report Version:	FPSR.FDA.PETF.V.V1						
Type Of Report:	Both						
Reporting Type:	Voluntary						
Report Submission Date:	:) ;;						
Reporter is the Animal	Yes	annoandhaannaanlaaannaallanaannadhanaannah					
Owner:		1					
Reported Problem:	Problem Description:	to save in him in the congestive heart fail deficit however was an echo cardiogram show Taurine deficit immediately and pla been on grain free follearned all too late for but it wasn't known a	ed with Taurine Deficit Dilated Cardiomylopathy after attempts ER and hospital stay of 4 days he went into he went into ure and was euthanized. He exhibited symptoms of Taurine treated for individual symptoms until he collapsed and he had which showed the DCM. His mother and sister started to symptoms at the same time. Their dog food was switched ced on Taurine and I carnitine supplements. They all had bod their whole lives. In hindsight and knowing now what I've or B6 I believe two of my other dogs also suffered from this at the time the possible cause.				
	Date Problem Started:	ed: B6					
	Concurrent Medical Problem:						
	Outcome to Date:						
	Date of Death:	B6					
Product Information:	Product Name:						
	Product Type:	Earthborn Holistic grain free, bison, lamb, pacific					
	Lot Number:						
	Package Type:	BAG					
	Package Size:	/ 					
	Purchase Date:	1 1					
	Number Purchased:	1					
	1	ļ					
	Possess Unopened Product:	INO					
	Possess Opened Product:	ened No					
	Storage Conditions:	Until opened stored cupboard in orig pkg	in metal container after opening open product stored in J.				
	Product Use Information:	Description:	2 times a day per recommended feeding instructions for weight				
		First Exposure Date:					
		Last Exposure Date:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
		Time Interval between Product Use and Adverse Event:					
		Product Use Stopped After the Onset of the Adverse Event:					
		Adverse Event Abate After Product Stop:					
		Product Use Started Again:					
		Perceived	Definitely related				

		Relatedness to Adverse Event:	
		Other Foods or Products Given to the Animal During This Time Period:	Yes
	Manufacturer		3
	/Distributor Information:		,
	Purchase Location Information:	Name:	B6
		Address:	B6 United States
Animal Information:	Name:		B6
	Type Of Species:	Dog	
	Type Of Breed:	Setter - Gordon	
	Gender:		
	Reproductive Status:		
	2 \$	80 Pound	
		B6 Years	
	Assessment of Prior Health:		
	Number of Animals Given the Product:		
	Number of Animals Reacted:	4	
	Owner Information:		·
	Healthcare Professional Information:	Practice Name:	B6
		Contact: Address:	Phone: B6
			United States
		Type of Veterinarian:	Referred veterinarian
		Date First Seen:	B6
		Permission to Release Records to FDA:	Yes
Sender Information:	Name:	В6	
	Address:	B6	
		United States	[Parameter and the second seco
	Contact:	Phone: Email:	B6
	Reporter Wants to Remain Anonymous:	No	
	Permission To Contact	Yes	

	Sender:	
	Preferred Method Of	Email
	Contact:	
	Reported to Other	Other Store/Place of Purchase
1	Parties:	Stole/Place of Pulchase
Additional Documents:		

 From:
 B6

 To:
 Reimschuessel, Renate

 Sent:
 7/17/2018 5:11:31 PM

 Subject:
 B6 ecords

 Attachments:
 B6 20180717 111003.pdf

Records for B6 from B6



B6

B6

Stuart

Medical Alert:

Weight.: 76 lbs, Age.....: 7 years old Breed...: Gordon Setter Sex: M DOB.....: **B6** Species..: Canine

Chronic Meds: Chronic Cond.....:

Flea Prev Meds: Heartworm Meds.:

Date Due:

Date Due:

Problem History:

Status:

Date Opened:

Date Closed:

Number:

B6

B6

D3/24/2016 SOAP Wellness exam Provider: B6

O: B6 Physical Examination

BCS: 5/9 ideal, ribs palpated without excess fat, waist observed behind ribs when viewed from above, abdominal tuck when viewed from the side, DG: 2/4 B6

B6

PLN: Normal M/S: Normal Gl/Abd: Normal H/L: No murmurs or arrhthymias, femoral pulse strong and synchronous, breathing eupneic with normal bronchovesicular sounds Neuro: Normal Rectal: not performed

A: in good health

P: nothing needed at this time.

Note

Rx B	6 an	d cough tabs		-	Provider:	B6
O CI stati	1g B6	has started	coughing now	and B6	was just seen	for kennel cough.
Ok per DF	R CA to I	RX	B6	Sia 1	cap BID and c	cough tabs #40qty
sig 1 tab e	every 6-8	hours as ne	eded for cough	ning - B6		

Page 2 of 51

B6

B6

Medical Alert Info: Laser Level Anesthesia Tech B6 Anesthesia: B6 Anesthesia Tech B6
ïme
Time AR
ime IR IR IR IR IR IR IR IR IR IR IR IR IR
Time
Time
Time HR RR MM CRT Ambulatory
Recovery: Time HR RR RR MM CRT Ambulatory Nert
Time
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B6

B6

B6 Surgery

Abdominal Exploratory Surgery

Provider: B6

Pre-Op Classification: Minimal Risk

B6

Mortality Information:

Post-Surgery Notes: Uneventful recovery Will start with water in 12 hours and food in 24 hours post surgery. Gave B6 M post surgery. Continue fluids until discharge. See treatment plan and hospital notes for specifics

B6

B6

B6

B6

B6

O: B6 Physical Examination

В6

stretching out, looking at belly H/L: No murmurs or arrhthymias, femoral pulse strong and synchronous, breathing eupneic with normal bronchovesicular sounds Neuro: Normal Rectal: not performed

Page 8 of 51

B6

B6

B6

Internation for **B6**Page 9 of 51

B6

B6

B6

O B6 Physical Examination

B6

Normal H/L: No murmurs or arrhthymias, femoral pulse strong and synchronous, breathing eupneic with normal bronchovesicular sounds Neuro: Normal Rectal: not performed

BCS: 5/9 ideal, ribs palpated without excess fat, waist observed

Page 10 of 51

B6

B6

behind ribs when viewed from above, abdominal tuck when viewed from the side.

B6

hysical Examination

B6

B6

B6

Normal GI/Abd: Normal H/L: No murmurs or arrhthymias, femoral pulse strong and synchronous, breathing eupneic with normal bronchovesicular sounds Neuro: Normal Rectal: not performed BCS: 5/9 ideal, ribs palpated without excess fat, waist observed behind ribs when viewed from above, abdominal tuck when viewed from the side. **B6** Hydration status: Normal, no MM dryness or skin tenting A: appears healthy P: RV sq RH DHPP sq RS Bord sq LS cc: vax rxn **B6** QTY: 1.00 10/02/2014 Service Provider: **B6 B6** Intermation for Page 12 of 51

B6

B6

B6

Information for B6 Page 13 of 51

B6 B6 B6

			Anesthe	esia Log	Con	tinue	Ы			B6
Client: B	6		Allestile	sia Log	COII	unae	u		L _	
				3(
					_					
Monitoring:	I	I	1	T	1					
Time										
HR										_
RR										_
MM										
CRT BP										
SpO2										
Iso Rate										_
Sevo Rate										
O2 Flow Rate										
02 1 10 11 1 tate					1		I.			
Monitoring:										
Time										7
HR										
RR										
MM										
CRT										_
BP										_
SpO2										_
Iso Rate										-
Sevo Rate O2 Flow Rate										-
OZ I IOW INALE										_
Recovery:	I									٦
Time										_
HR										-
RR MM										-
CRT										-
Ambulatory										-
Alert										
Temperature										1
OK TGH?										
Initials										
Comments:										
Comments.										

DOB	6 B6 76 lbs			cedure(s): Foreign body			
Medical A					Doctor;	B6 , D	N.V.
nesthesia:	Las	ser Level		Anesthes	ia Tech	В6	
			B6				
			D				
ime							
ime IR IR							
decovery: ime IR IR							
ime R R IM RT							
me R R M RT mbulatory							
R R M RT mbulatory lert emperature							
ime R R R IM RT mbulatory lert emperature IK TGH?						F. (F. (F. (F. (F. (F. (F. (F. (F. (F. (
R R M RT mbulatory lert emperature K TGH?							
R R M RT mbulatory lert emperature K TGH? itials R Drugs:	Dose	mg		Route	Time		
R R R M RT mbulatory lert emperature K TGH? itials R Drugs:	Dose	mg			Time		
me R R M M RT mbulatory ert emperature K TGH? itials ropine pinephrine	Dose	mg			Time		
me R R M RT mbulatory lert emperature K TGH? itials R Drugs: tropine pinephrine docaine	Dose	mg			Time		
R R R IM RT mbulatory lert emperature	Dose	mg			Time		

В6

B6

B6

B6 Provider **B6** GI Foreign body Surgery **B6**

B6

B6

B6

Page 18 of 51

B6

B6

c B6 Physical Examination

B6

<u>PLN:</u> Normal <u>M/S:</u> Normal <u>Gl/Abd:</u> Normal <u>H/L:</u> No murmurs or arrhthymias, femoral pulse strong and synchronous, breathing eupneic with normal bronchovesicular sounds <u>Neuro:</u> Normal <u>Rectal:</u> not performed

A: In good health

P: 6mo bordetella

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B6

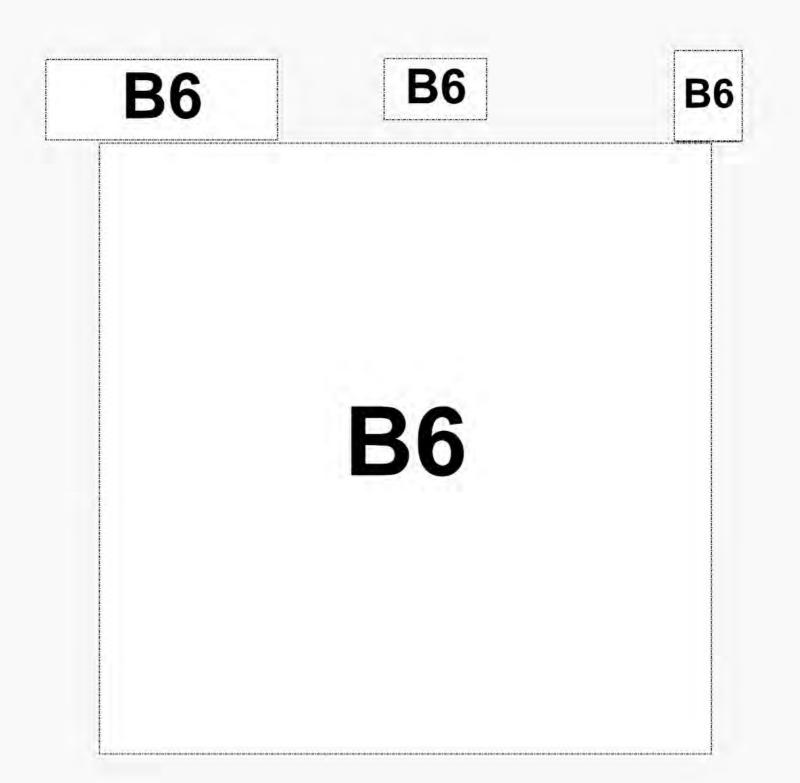
		B6	······································
		DU	الــــــــــــــــــــــــــــــــــــ
,			
	B6	1	
Limenson			

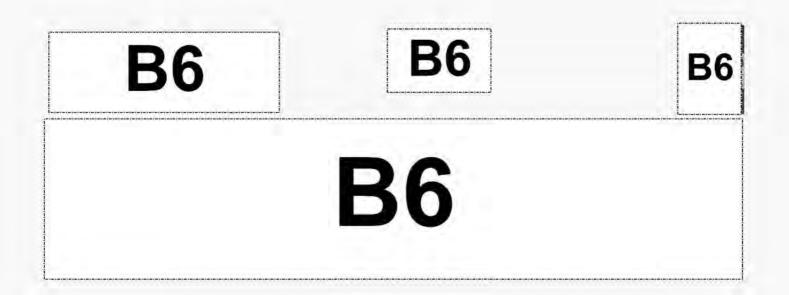
DOB: B6
Sex: M
Species: CanineBreed: Gordon SetterWeight: 76

Urinalysis (in-house)

B6

B6





B6

B6

B6

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B6

B6

B6

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B6

B6

B6

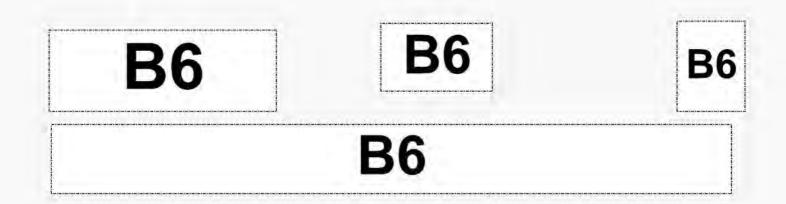
Page 27 of 51

B6

B6

B6

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lient: Batient B6	36 B6	<u></u> j		3.415381	Procedure(s): GI Exploratory		B6
Medical Ale	0.7 (7.7.5%)					Doctor:	B6 D.V.M
Anesthesia:	etunetelmyan, myanara	Laser Leve	1		Anesth	nesia Tech B	6
Recovery: Time TR RR MM CRT Ambulatory Alert Temperature DK TGH? Initials							
R Drugs:	Dose		mg	ml	Route	Time	
pinephrine							
docaine							
opamine							
omments:							
		B6		B6			
	***************		****************	100			

B6

B6

Provider: **B6** GI Exploratory Surgery **B6** Surgery **B6**

B6

B6

Mortality Information:

B6

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B6

B6

B6

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B6

B6

QTY: 1,00 Provider: B6
Page 34 or 51

B6

B6

Wt: Medical A		Laser Level	(#18 (#18 (#18 (#18)		Gastro enterotom	y for GIFB (rock) Doctor:	B6 B6	D.V.M
				B	6			
	Jn.20-							
ïme	9:30p							
ime R	150							
ime R R	150 42							
me R R	150 42 It pk						P. A. S. (A. S. A. S.) A. (B.) A. (B.)	
ime R R IM RT	150 42		F/A(E/A)F/A(E/A)					
ime IR RR IM CRT mbulatory	150 42 It pk < 2 sec							
ime IR RR MM CRT mbulatory	150 42 It pk < 2 sec No							
ime IR IR IR IM IM IR IM IM IN IN IM IM IM IM IM IM IM IM IM IM IM IM IM	150 42 It pk < 2 sec No							
Time HR RR MM CRT Ambulatory Jert Emperature DK TGH?	150 42 It pk < 2 sec No							
Time AR AR AM CRT Ambulatory Alert Emperature OK TGH?	150 42 It pk < 2 sec No No 100.6		003	mi	Route	Tiv	ne .	
Time HR RR MM CRT Ambulatory Mert Emperature DK TGH? Initials ER Drugs:	150 42 It pk < 2 sec No No 100.6		ng	mt	Route	Tim	ne	
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ime IR IR IR IR IR IM IR IR IM IR IR IM IR IR IM IR IR IM IR IR IM IR IR IR IR IR IR IR IR IR IR IR IR IR	150 42 It pk < 2 sec No No 100.6	m n	ng	ml	Route	Tim	ne	
Recovery: Fime HR RR MM CRT Ambulatory Alert Femperature DK TGH? nitials ER Drugs: Atropine Epinephrine Lidocaine Dopamine Comments:	150 42 It pk < 2 sec No No 100.6		ng	ml	Route	Tim	ne	

B6

B6

B6

Surgery

GastroIntestinal Exploratory

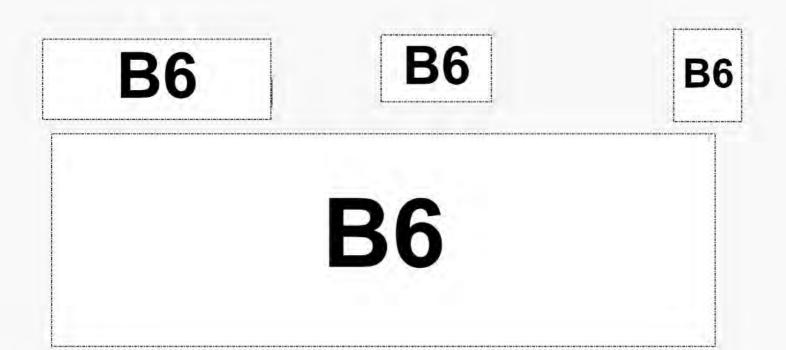
Provider:

B6

Pre-Op Classification: Minimal Risk

B6

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I-Stat Results

DOB: B6
Sex: M
Species: Canine
Breed: Gordon Setter
Weight: 76 lbs.

B6		В6	Normal Values:
			B 6

B6 B6 B6 B6 B6 Provider: SOAP B6 **B6** Page 40 of 51

B6

B6

B6

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B6

B6

B6

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B6

B6

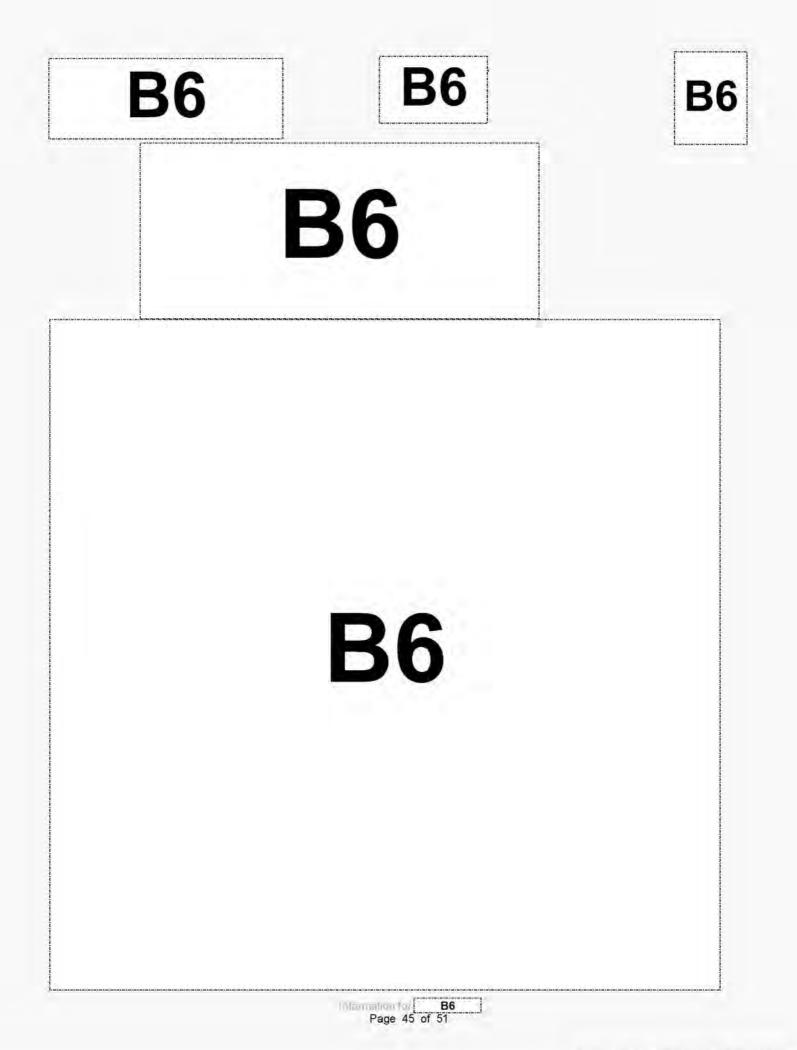
B6

B6

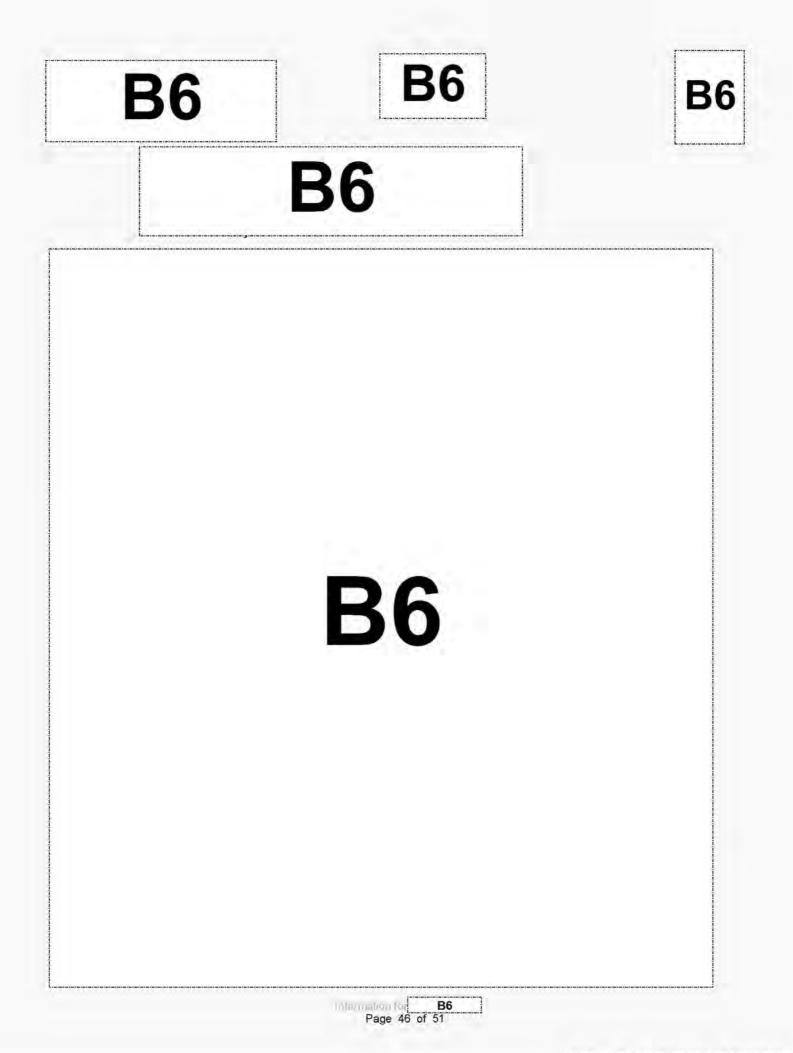
B6 J SOAP Exam: Dog Fight Provider: B6

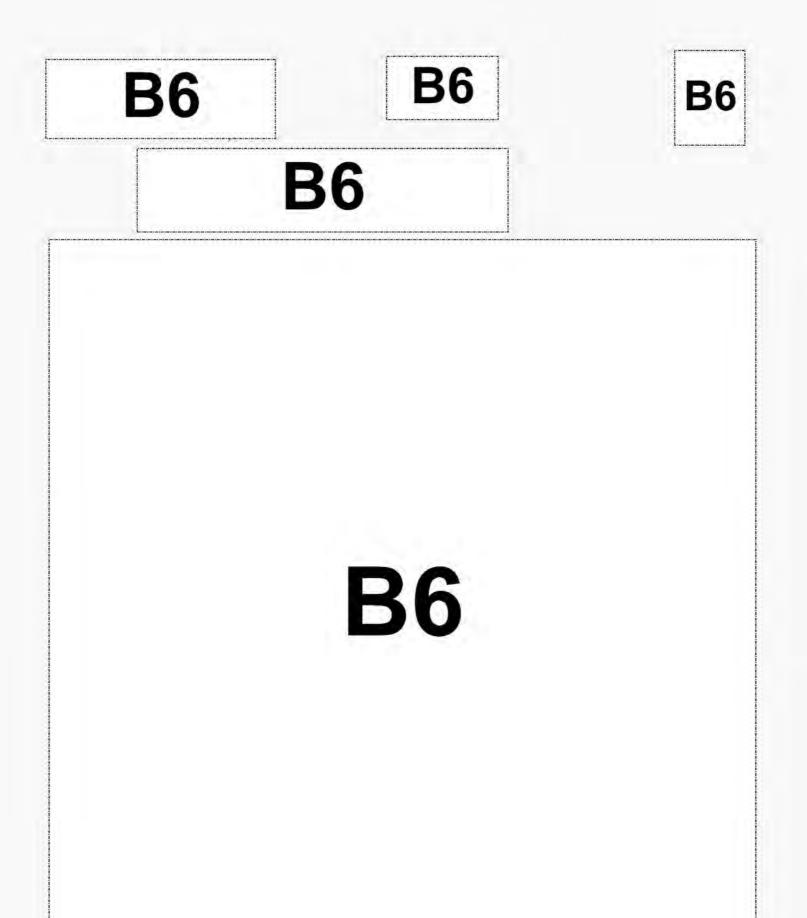
B6

Page 44 or 51

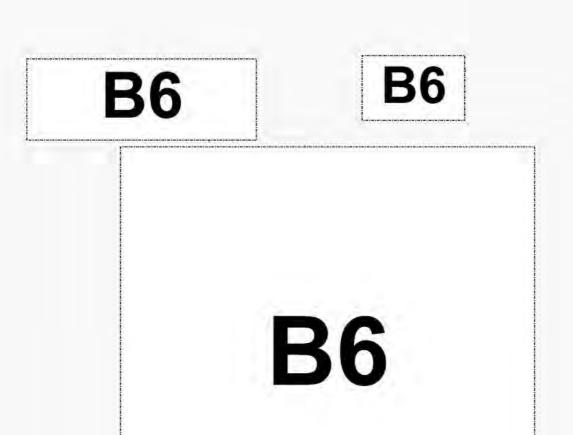


FDA-CVM-FOIA-2019-1704-016059





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B6	
	B6

DOB: B6
Sex: M
Species: Canine
Breed: Gordon Setter
Weight: 76 lbs.

Fecal Analysis

τ	Date Sample Collected:	10/07/2011
Method of	Flotation	
Се	ntrifugation 🔽	
	Direct 🔽	

Abnormalities	B6	100 Marie (
roblem: Diarrhea						
ow long has it been a problem? Since	ce Monday		ĺ	Straining?	Yes	V No
requency		Blood? Yes	□No	Mucus?	Yes	No
	0 1 - 10 -	1. Watery	2. Cow Pie	3. Soft Ice	e Cream	
this is a fecal test, the consistency of	the tecal matter:). Vvalety	2. COW FIE	1.00		
and the second s		od or dietary indiscrea			_	
rand of Food: Earthborn Holistic	Change in foo	od or dietary indiscrea			_	
trand of Food: Earthborn Holistic Eating and Drinking normal?	Change in foo	od or dietary indiscrea			_	
Earthborn Holistic Eating and Drinking normal? Activity normal?	Change in foo	od or dietary indiscrea			_	
f this is a fecal test, the consistency of Brand of Food: Earthborn Holistic Eating and Drinking normal? Activity normal? Vomiting? Do you already have an appointment	Change in foo Yes N Yes N Yes N	od or dietary indiscrea o o o			_	

B6

B6

B6

B6

For any questions on B6 health, please call B6

From: To: Sent: Subject:	B6 Jones, Jennifer L 7/30/2018 4:11:19 PM RE: 800.267-FDA Case Inve	estigation for B6	(EON-359060)	
Dr. Jones, Thank you I'll contacto the B	t B6 6 Ithat night	again. B6 v	vas initially seen tl	here before going
	ou have B6 the ER report then you'l missing.			
B6				
Sent: Monday, July 30, 2 To: B6	[mailto:Jennifer.Jones@fda.h 018 7:25 AM DA Case Investigation for	·		
Thank you, B6 Jennifer Jones, DVM Veterinary Medical Office Tel: 240-402-5421 U.S. FOOD & DRUG	I received records from	B6 and	В6	only.
Subject: RE: 800.267- Dr. Jones,	Jennifer.Jones@fda.hhs.g FDA Case Investigation fo	r B6 (EON-3	359060)	,
I am checking in to s	ee if you have received a B6	all of B6 records and	. The clinics would B6	d be B6

B6
From: Reimschuessel, Renate [mailto:Renate.Reimschuessel@fda.hhs.gov] Sent: Tuesday, July 17, 2018 12:00 PM To B6 Cc: Jones, Jennifer L
Subject: RE: 800.267-FDA Case Investigation for B6 (EON-359060)
Dear B6 Thank you for your prompt response. Dr. Jones will be handling your case and will contact you regarding the interview. She normally reviews the medical records prior to conducting the interview. Again, thank you Best Regards Dr. Reimschuessel
From: B6 [mailto B6] Sent: Tuesday, July 17, 2018 1:07 PM To: Reimschuessel, Renate < Reimschuessel@fda.hhs.gov > Subject: RE: 800.267-FDA Case Investigation for B6 (EON-359060)
Dr. Reimschuessel, I am available for phone interviews at 7:30 a.m. B6 time(8:30 ET) 7/18, 7/20, 7/23(pretty much most days). My hours are pretty flexible as I am retired so I can usually accommodate other possible options that fit your schedule.
I have cc'd you on the medical record requests that I already sent this morning.
If you would be kind enough to send questions you will be asking me in advance, then I can be prepared with answers if that is allowed.
B6 B6
From: Reimschuessel, Renate [mailto:Renate.Reimschuessel@fda.hhs.gov] Sent: Tuesday, July 17, 2018 9:56 AM To: B6 Subject: 800.267-FDA Case Investigation for B6 (EON-359060)
Dear B6 Thank you for submitting your consumer complaint to FDA. I'm sorry to hear about B6 illness. As part of our investigation, we'd like to request: • Full Medical Records

o Please contact *your veterinarian* and ask them to email (preferred) or

fax (301-210-4685) a copy of **B6** entire medical history (not just this event).

- Phone interview about B6 diet and environmental exposures
 - o Please email 3 dates with times when you are available to speak for 30 minutes.
 - My normal office hours are 6:30am to 3:30pm eastern.
 - The interview will help us better understand the details in your case.

I attached a copy of our Vet-LIRN network procedures. The procedures describe how Vet-LIRN operates and how owners help with our case investigations.

Please respond to this email so that we can initiate our investigation.

Thank you kindly,

Dr. Reimschuessel

Renate Reimschuessel V.M.D. Ph.D.

Director: Vet-LIRN

(Veterinary Laboratory Investigation and Response Network)

Center For Veterinary Medicine, FDA, 8401 Muirkirk Road, Laurel, MD 20708

Phone 1- 240-402-5404 Fax 301-210-4685 **EMAIL:** renate.reimschuessel@fda.hhs.gov

Vet-LIRN

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

Phish-Pharm

http://www.fda.gov/AnimalVeterinary/ScienceResearch/ToolsResources/Phish-Pharm/default.htm

Aquaculture

http://www.fda.gov/AnimalVeterinary/ScienceResearch/ResearchAreas/ucm130892.htm

В6 From: Reimschuessel, Renate To: CC: Jones, Jennifer L 8/6/2018 4:27:53 PM Sent: Records for B6 Subject: В6 r2.html; B6 Rads. B6 .pdf; .html; В6 .html Attachments: Please find attached the records for Let us know if you need anything else. В6

Thanks!

Date: B6

Patient: B6

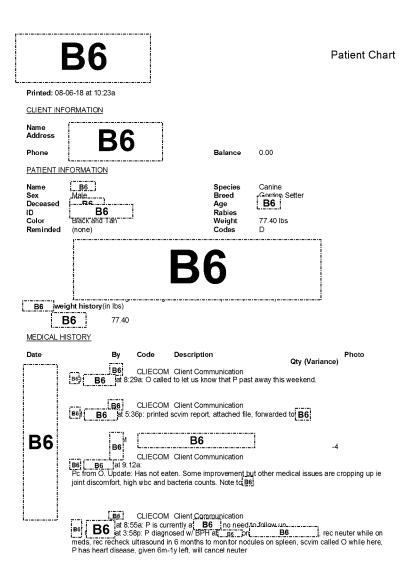
Findings: Four abdominal radiographs are available.

B6

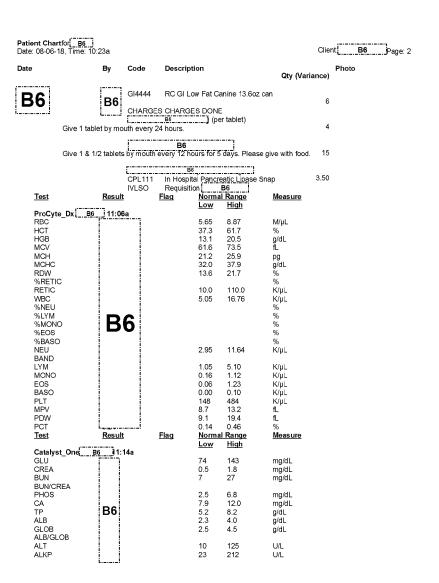
Please feel free to email or call with any questions or concerns. Thank you,

B6

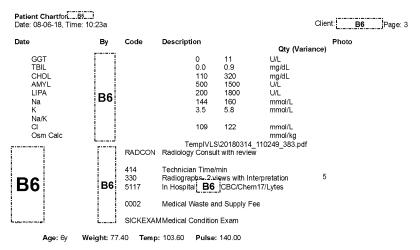
B6 DVM, Diplomate ACVR



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SUBJECTIVE SECTION

Vomited the meal he ate this morning...O. has been monitoring temp at home, and found it varying form 103 to 105. Will not eat now, but did drink water.

OBJECTIVE SECTION

T- 103.8 Mildly painful abdomen Lungs, heart, wnl mm..pink, CRT > 2.0

mm.pink, CRT > 2.0
Blood work.wnl
X-ray..gas fill I. intestine. Took one X-ray at 10 am, noting large gas-filled colon...bladder appeared distended. Took outside for walk, and urinated, taking a long time and urinating in a pulsating manner. Rectal palpation...prostate did not feel enlarged.
X-rays taken at 3 PM, showing normal food material in s. intestine, and still showing gas in I. intestine. I would expect bladder to be small, but still showing possible bladder enlargement, mass?

ASSESSMENT SECTION

NOTES В6 PLAN SECTION NOTES Send X-rays tc___B6___ **B6** 2331 Emergency Fee: During Hours

Previous Page ----- Next Page

То:	(FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo> Rotstein, David; Palmer, Lee Anne; Carey, Lauren; Queen, Jackie L; Glover, Mark
CC:	Ceric, Olgica; Nemser, Sarah; Peloguin, Sarah; 'Reimschuessel, Renate
	(Renate.Reimschuessel@fda.hhs.gov)'
Sent:	8/7/2018 2:41:45 PM
Subject:	RE: 800.267-EON-359060 B6 Earthborn Holistic grain free
Attachments:	EON-359060-owner interview-8.7.2018.pdf
Owner interview. No B6 was fed this d	food left. NFA. liet solely for 7 years.
Jennifer Jones, DVM Veterinary Medical Off Tel: 240-402-5421	icer
U.S. FOOD & DRUG	
From: Jones, Jennif	
Carey, Lauren <lau< th=""><td><david.rotstein@fda.hhs.gov>; Palmer, Lee Anne <leeanne.palmer@fda.hhs.gov>; ren.Carey@fda.hhs.gov>; Queen, Jackie L <jackie.queen@fda.hhs.gov>; Glover, Mark</jackie.queen@fda.hhs.gov></leeanne.palmer@fda.hhs.gov></david.rotstein@fda.hhs.gov></td></lau<>	<david.rotstein@fda.hhs.gov>; Palmer, Lee Anne <leeanne.palmer@fda.hhs.gov>; ren.Carey@fda.hhs.gov>; Queen, Jackie L <jackie.queen@fda.hhs.gov>; Glover, Mark</jackie.queen@fda.hhs.gov></leeanne.palmer@fda.hhs.gov></david.rotstein@fda.hhs.gov>
Sarah <sarah.peloq< th=""><td>Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <sarah.nemser@fda.hhs.gov>; Peloquin, juin@fda.hhs.gov>; 'Reimschuessel, Renate (Renate.Reimschuessel@fda.hhs.gov)'</sarah.nemser@fda.hhs.gov></td></sarah.peloq<>	Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <sarah.nemser@fda.hhs.gov>; Peloquin, juin@fda.hhs.gov>; 'Reimschuessel, Renate (Renate.Reimschuessel@fda.hhs.gov)'</sarah.nemser@fda.hhs.gov>
<renate.reimschue Subject: RE: 800.26</renate.reimschue 	67-EON-359060- B6 Earthborn Holistic grain free
1/20	F foods fed per MRxAcana, Nat Balance, etc. Looks like myocarditis in 1 of 2 dogs, M (grandmother died of syncope and cardiomegaly)
Presented B6 dyspnea, tachycardi	don Setter-genetic grandmother o B6 (below) 3 syncopal episodes (1/15, 1/21), on Incurin & Cranberry/Vit C supplement, recumbent, a, vomited, possible tremors/mm contractions uddy mm, RR 44, obtunded, lipoma cranial L lateral abdomen
	B6
	poid heart silhouette, scalloped edge of lung lobe cranial and ventral, r/o pleural effusion, d significance about pericardial effusion"
Prior MHx:	B6
	B6
Ĺ	
B6 7 yr M Gordo Presented B6 103F, tense apgome	fever, stranguria, hematuria à lethargy, inappetance, vomiting, soft stool, pant à rDVM:
Abd Rads:	gastroenteritis, Labs & cPL: wnl à Ta B6
To specialis	t/ERB6B6
med responsive	state = BPH; Dog became lame w/ rapid femoral pulse and collapse after AUS à non pain
B6 Echo: Tx:√	DCM; X-rad: enlarged cardiac silhouette; MAP 81 B6
12.	

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

From:

B6 Re-echo: poor heart function B6 Recheck-cough, dyspnea, hiding, mod lethargy, never travelled to South PE: 70 rpm, diffuse crackles, RE 1/3 Rads: sev. Cardiomegaly, diffuse broncho-interstitial pattern Euthanized Prior MHx: ate Earthborn 9/2011, wildlife exposure (elk & deer through backyard, will catch voles on occ), travels for pet shows, several i, 9/2012 ate Acana; 2/2014 eating Earthborn food again; Jennifer Jones, DVM Veterinary Medical Officer Tel: 240-402-5421 DA U.S. FOOD & DRUG ADMINISTRATION From: Rotstein, David Sent: Friday, July 13, 2018 9:14 AM To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Queen, Jackie L < Jackie. Queen@fda.hhs.gov>; Ceric, Olgica < Olgica. Ceric@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Glover, Mark < Mark. Glover@fda.hhs.gov > Subject: Fwd: Earthborn Holistic grain free: **B6 From:** PFR Event < <u>pfreventcreation@fda.hhs.gov</u>> Date: July 12, 2018 at 8:20:24 PM EDT **To:** Cleary, Michael * < <u>Michael Cleary@fda.hhs.gov</u>>, HQ Pet Food Report Notification < <u>HQPetFoodReportNotification@fda.hhs.gov</u>>, B6

Subject: Earthborn Holistic grain free: Patricia Engler - EON-359060

A PFR Report has been received and PFR Event [EON-359060] has been created in the EON System.

A "PDF" report by name "2051931-report.pdf" is attached to this email notification for your reference.

Below is the summary of the report:

EON Key: EON-359060

ICSR #: 2051931

EON Title: PFR Event created for Earthborn Holistic grain free bison lamb pacific; 2051931

AE Date	В6	Number Fed/Exposed	5
Best By Date		Number Reacted	4
Animal Species	Dog	Outcome to Date	Died Euthanized
Breed	Setter - Gordon		

Age		B6 Years	
Distr	ict Involved	PFR-Denver DO	

Product information

Individual Case Safety Report Number: 2051931

Product Group: Pet Food

Product Name: Earthborn Holistic grain free, bison, lamb, pacific

Description: B6 was diagnosed with Taurine Deficit Dilated Cardiomylopathy after attempts to save in him in the ER and hospital stay of 4 days he went into he went into congestive heart failure and was euthanized. He exhibited symptoms of Taurine deficit however was treated for individual symptoms until he collapsed and he had an echo cardiogram which showed the DCM. His mother and sister started to show Taurine deficit symptoms at the same time. Their dog food was switched immediately and placed on Taurine and I carnitine supplements. They all had been on grain free food their whole lives. In hindsight and knowing now what I've learned all too late for B6 I believe two of my other dogs also suffered from this but it wasn't known at the time the possible cause

Submission Type: Initial **Report Type:** Both

Outcome of reaction/event at the time of last observation: Died Euthanized

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

Product Name	Lot Number or ID	Best By Date
Earthborn Holistic grain free, bison, lamb, pacific		

Sender information

B6

USA

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To view this PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-359060

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

 $\underline{https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none\&e=0\&issueType=12\&issueId=375684$

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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 <u>FDAReportableFoods@fda.hhs.gov</u> immediately.

Follow-up Case Information Uniform Data Entry Form Vet-LIRN

Date (mm/dd/yy)	Aug 7, 2018	
EON/CC Number:	359,060	

PATIENT INFORMATION	
Pet Name B6	
● Dog Cat	This form serves as a Uniform Data Entry Form to capture additional case
Breed Gordon Setter	specific information not clear from the Consumer Complaint or Medical Records in a standardized manner. Because each follow-up interview
Age in years (if < 6 months, put 0.5) 7 Gender: • M	made with owners features questions tailored specifically to the case, each box of information contained in this Uniform Data Entry Form may not be completed.
HISTORY-Additional Comments from Owner	
What Happened: was older, one day was w	ner puppies have had any issues and they don't feed them grain free food; B6 eak, collapsed, X-ray of heart-large; B6 ; owner in middle of moving-stayed in ld run along fence w/ horse-sporting, weight loss, very stressed (sensitive in
Prior to the Event setters are stoic, B6 wa	and related to the owner's breeding don't have the heart disease; Gordon as a pleaser and wanted to be with the owner; 2 yr ago owner diagnosed w/ rare B6 and B6 always by the owner's side; B6 was
upset by the move-boxes	, etc.
Sensitive GI tract (e.g. stomach upset when switching foods, Yes eats a lot of grass)	Changes to the pet's diet prior to illness Tes Date Diet Change:
CLINICAL INFORMATIONAdditional Comments from	Owner on What Happened
Appetite Increased Decreased	Water Consumption 🔲 Increased 🔲 Decreased
Vomiting ⊠ Yes	Urination Increased Decreased
Diarrhea Yes	Lethargy Tes
Duration of Diarrhea (days)	
Blood in Feces Fresh, Red	Other: weight loss, snorting, stranguria, collapse
☐ Coffee Ground	
☐ Black,Tarry	
MEDICATIONS-Taken Prior to the Event and Mentioned	d by Owner
List medications mentioned by owner (e.g. NSAIDs, steroids, heartworm/flea prevention, antibiotics, etc.)	
List probiotics, vitamins, or supplements mentioned by owner:	

ollow-up Case Inf /et-LIRN	ormation Uniform Data Entry Form		EON/CC Number: 35	9,060
Owner: B6		Pet's Name:	B6	
Γ-Any other foods the	owner mentions were given to the animal du	ring this perio	od. (check all that app	y).
Commercial Dry	Product Use as Part of Diet:	☑ Primary	☐ Secondary	Occasional
List Product Label Na	me Earthborn Holistic-3 flavors-Bison, Fish B6 mom/Sister-got 3.5 cups total,			
Commercial Wet-0	Canned Product Use as Part of Diet:	Primary	Secondary	Occasional
List Product Label Na	me			
Commercial Wet-F	Pouch Product Use as Part of Diet:	Primary	☐ Secondary	Occasional
List Product Label Na	me:			
Commercial-Raw	Product Use as Part of Diet:	Primary	☐ Secondary	Occasional
List Product Label Na	me:			
Homemade-Raw	Product Use as Part of Diet:	Primary	☐ Secondary	☐ Occasional
Describe Product T	ype:			
☐ Homemade-Cook	ed Product Use as Part of Diet:	Primary	☐ Secondary	Occasional
Describe Product T	ype:			
	an Food (as an ution to diet) Describe Product Type(s): stra	wberries, blu	eberries, pineapple, go	oats milk yogurt
□ Pet Treat Products		Primary	☐ Secondary	Occasional
	Product Label Name/Lot: Biscuit-Grain Free	e Cookies-Mo	lasses, Peanut butter	Date <u>first</u> fed
	How Product Administered: only when go	into crates/ke	ennels, esst'lly SID	Date last fed
Rawhides or Pig Ears	Product Label Name/Lot:			Date first fed
119 2413	How Product Administered:			Date last fed
☐ Marrow Bones	Product Label Name/Lot:			Date <u>first</u> fed
57/55	How Product Administered:			Date last fed
☐ Chicken Jerky	Product Label Name/Lot:			Date <u>first</u> fed
	How Product Administered:			Date last fed
☐ Duck Jerky	Product Label Name/Lot:			Date <u>first</u> fed
	How Product Administered:			Date last fed
Sweet	Product Label Name/Lot:			Date <u>first</u> fed
☐ Potato Jerk or Treats	How Product Administered:			Date last fed

wner:	В6			Pet's Name:	B6			
contin	nued-Any of	her foods the owner	mentions were giver	n to the animal du	ring this period.	(check all tha	(vlaga te	
2210700						(
	C Other T		Name/Lot: Plaque O	ff from Sweden-Se	ea Kelp-occ got it	; occ got D	ate <u>first</u> fed	
14	Other T	How Product A	Administered: sprinkl	e on food, occ got	ti.	D	ate last fed	
		OSURES-Environmen ent . (check all that ap		oned by the Owne	r Potentially Affe	cting the Ani	mal's Overa	I State of
× I	ndoor	☐ Outdoor	☐ Indoor & Outdoor	☐ Carrion	Rodents	☐ Grape	es or Raisins	Nuts
	Plants	☐ Trash		⊠ Pet Shows	Sporting Events	Pet Re	ecreation Fa	cilities
	Livestock	□ Poultry	Reptiles	Pet Birds	Small Mammals	☐ Untre	eated Surfac	e Water
	Vari Carana	□ Muchrooms	☐ Heavy Metals	Ticks	Urban	Subur	rban	Rural
Com	sho B onl ow ments:	Mushrooms gs can go out as much ow in an area w/ heart 6 did have to wear a y at that time; when o ner had were kept in ner used to use chick urn home; no trauma	n as they want, fence tworms; checked on a muzzle and would a competing in hunting the garage; never we en fertilizer for the ya	them-mountain lice eat rocks; in owne g competition wo ent to dog parks; ard but not anymo	on/bear country l r trained for hunt uld get a quail bu ore; if she did ferti	out not super ling, they'd b It most of the	rvised all the e around po e time not; fe e gone for 3	e time; oultry but ew pigeon days then
Com	dog sho B onl ow ments: ow ret	gs can go out as mucl ow in an area w/ heart 6 did have to wear a y at that time; when o ner had were kept in ner used to use chick urn home; no trauma gs got Fish Oil pills; no	n as they want, fence tworms; checked on a muzzle and would a competing in hunting the garage; never we en fertilizer for the ya or hyperthermia, no	them-mountain lice at rocks; in owne g competition wo ent to dog parks; ard but not anymo irradiation or electore, black locust, b	on/bear country l r trained for hunt uld get a quail bu ore; if she did ferti tric shock, no che outtercup, lily-of-l	out not super ing, they'd b it most of the ilize they'd be emo drugs or the-valley, go	rvised all the e around po e time not; fe e gone for 3 r alcohol; soi ossypol;	e time; bultry but ew pigeon days then metimes
	doo sho B onl ow ments: ow ret doo	gs can go out as mucl ow in an area w/ heart 6 did have to wear a y at that time; when o ner had were kept in ner used to use chick urn home; no trauma gs got Fish Oil pills; no	n as they want, fence tworms; checked on a muzzle and would a competing in hunting the garage; never we en fertilizer for the ya or hyperthermia, no o Taxus plants, foxglo	them-mountain lice at rocks; in owne g competition worent to dog parks; and but not anymo irradiation or electore, black locust, but fearthborn food f	on/bear country lear trained for hunt uld get a quail but ore; if she did ferti stric shock, no che outtercup, lily-of-tor 2 months-now	out not super ing, they'd b it most of the ilize they'd be emo drugs or the-valley, go	rvised all the e around po e time not; fe e gone for 3 r alcohol; soi ossypol;	e time; bultry but ew pigeon days then metimes
SEHOL	doo sho B onl ow ments: ow ret doo	gs can go out as mucley in an area w/ heart 6 did have to wear a y at that time; when oner had were kept in ner used to use chick urn home; no trauma gs got Fish Oil pills; no B6	n as they want, fence tworms; checked on a muzzle and would a competing in hunting the garage; never we en fertilizer for the ya or hyperthermia, no o Taxus plants, foxglo : all 3 dogs; of mals Given the Produ	them-mountain lice at rocks; in owner grompetition workent to dog parks; and but not anymorized but not anymorized but not anymorized buck locust, but fearthborn food for the fearthborn food food for the fearthborn food for the fearthborn food food food food food fearthborn food food food fearthborn food food fearthborn food food fearthborn	on/bear country lear trained for hunt uld get a quail but ore; if she did ferti stric shock, no che outtercup, lily-of- for 2 months-now the owner.	out not super ing, they'd b it most of the ilize they'd be emo drugs or the-valley, go	rvised all the e around po e time not; fe e gone for 3 r alcohol; soi ossypol;	e time; bultry but ew pigeon days then metimes
	ments: D-Signalm I B6	gs can go out as muclow in an area w/ heart 6 did have to wear a y at that time; when oner had were kept in the second of the se	n as they want, fence tworms; checked on a muzzle and would a competing in hunting the garage; never we en fertilizer for the ya or hyperthermia, no o Taxus plants, foxglo : all 3 dogs; of mals Given the Produ	them-mountain lice at rocks; in owner grompetition workent to dog parks; and but not anymorized but not anymorized but not anymorized buck locust, but fearthborn food for the fearthborn food food for the fearthborn food for the fearthborn food food food food food fearthborn food food food fearthborn food food fearthborn food food fearthborn	on/bear country lear trained for hunt uld get a quail but ore; if she did fertictric shock, no che outtercup, lily-of-for 2 months-now the owner.	out not super ing, they'd be it most of the ilize they'd be emo drugs or the-valley, go	rvised all the e around po e time not; fe e gone for 3 r alcohol; soi ossypol;	e time; bultry but ew pigeon days then metimes
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SEHOI Anima Anima	dog sho B onl ow ret dog LD-Signalm al 1 B6 value	gs can go out as muclow in an area w/ heart 6 did have to wear a y at that time; when oner had were kept in the second of the se	n as they want, fence tworms; checked on a muzzle and would a competing in hunting the garage; never we en fertilizer for the ya or hyperthermia, no o Taxus plants, foxglo : all 3 dogs; of mals Given the Produ	them-mountain lice at rocks; in owner grompetition workent to dog parks; and but not anymorized but not anymorized but not anymorized buck locust, but fearthborn food for the fearthborn food food for the fearthborn food for the fearthborn food food food food food fearthborn food food food fearthborn food food fearthborn food food fearthborn	on/bear country ler trained for hunt uld get a quail but ore; if she did fertitric shock, no che outtercup, lily-of-for 2 months-now the owner.	out not super ing, they'd be it most of the ilize they'd be emo drugs or the-valley, go on cooked r	rvised all the e around po e time not; fe e gone for 3 r alcohol; soi ossypol;	e time; bultry but ew pigeon days then metimes

3 of 3

Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group From: (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo> Rotstein, David; Palmer, Lee Anne; Carey, Lauren; Queen, Jackie L; Glover, Mark To: CC: Ceric, Olgica; Nemser, Sarah; Peloquin, Sarah; 'Reimschuessel, Renate (Renate.Reimschuessel@fda.hhs.gov)' 8/7/2018 2:51:12 PM Sent: RE: 800.267-EON-359060 B6 - Earthborn Holistic grain free Subject: B6 Rads. AMC.pdf; B6 I.html; B6 2.html; Attachments: 3.html Also-updated MRx: **B6** 7 yr M Gordon Setter Presented B6 T 103.6F, vomited food, temp varied from 103 to 105F, inappetant now; fever, stranguria, hematuria à lethargy, inappetance, vomiting, soft stool, pant à To specialist/ER B6 **B6** B6 Culture; FNA of prostate = BPH; Dog became lame w/ rapid femoral pulse and collapse after AUS à non pain med responsive **B6** Echo: DCM; X-rad: enlarged cardiac silhouette; MAP 81 B6 Re-echo: poor heart function B6 Recheck-cough, dyspnea, hiding, mod lethargy, never travelled to South PE: 70 rpm, diffuse crackles, RE 1/3 Rads: sev. Cardiomegaly, diffuse broncho-interstitial pattern Euthanized Prior MHx: ate Earthborn 9/2011, wildlife exposure (elk & deer through backyard, will catch voles on occ), travels for pet shows, , 9/2012 ate Acana; 2/2014 eating Earthborn food again; Jennifer Jones, DVM Veterinary Medical Officer Tel: 240-402-5421 FDA U.S. FOOD & DRUG From: Jones, Jennifer L **Sent:** Monday, July 30, 2018 11:28 AM To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Queen, Jackie L <Jackie.Queen@fda.hhs.gov>; Glover, Mark <Mark.Glover@fda.hhs.gov> Cc: Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Peloquin, Sarah <Sarah.Peloquin@fda.hhs.gov>; 'Reimschuessel, Renate (Renate.Reimschuessel@fda.hhs.gov)' <Renate.Reimschuessel@fda.hhs.gov> Subject: RE: 800.267-EON-359060 B6 Earthborn Holistic grain free History of different GF foods fed per MRx.-Acana, Nat Balance, etc. Looks like myocarditis in 1 of 2 dogs, possible familial DCM (grandmother died of syncope and cardiomegaly) Interview pending 11 yr FS Gordon Setter-genetic grandmother of **B6** below)

Presente B6 3 syncopal episodes (1/15, 1/21), on Incurin & Cranberry/Vit C supplement, recumbent,
dyspnea, tachycardia, vomited, possible tremors/mm contractions PE: pale/muddy mm, RR 44, obtunded, lipoma cranial L lateral abdomen
B6
X-Rad: globoid heart silhouette, scalloped edge of lung lobe cranial and ventral, r/o pleural effusion,
note says "discussed significance about pericardial effusion" Euthanized
Prior MHx
B6
B6 7 yr M Gordon Setter
Presented B6 fever, stranguria, hematuria à lethargy, inappetance, vomiting, soft stool, pant à rDVM:
103F, tense abdomen
Abd Rads: gastroenteritis, Labs & cPL: wnl à Tx B6 To specialist/ER B6
B6
Culture; FNA of prostate = BPH; Dog became lame w/ rapid femoral pulse and collapse after AUS à non pain
med responsive
B6 Echo: DCM; X-rad: enlarged cardiac silhouette; MAP 81 Tx: B6
Tx: B6 B6 Re-echo: poor heart function
B6 Recheck-cough, dyspnea, hiding, mod lethargy, never travelled to South
PE: 70 rpm, diffuse crackles, RE 1/3
Rads: sev. Cardiomegaly, diffuse broncho-interstitial pattern
Euthanized Prior MHy: ata Farthborn 9/2011, wildlife exposure (elk & deer through backyard, will catch voles on occ)
Prior MHx: ate Earthborn 9/2011, wildlife exposure (elk & deer through backyard, will catch voles on occ), travels for pet shows, 9/2012 ate Acana;
2/2014 eating Earthborn food again;
Land Control BNA
Jennifer Jones, DVM Veterinary Medical Officer
Tel: 240-402-5421
FDA U.S. FOOD & DRUG
ADMINISTRATION
From: Rotstein, David
Sent: Friday, July 13, 2018 9:14 AM Tel Polmer Lee Appendix on Appendix Delmer@fde blog gover Carey Leuren Clarey@fde blog gover Queen
To: Palmer, Lee Anne < LeeAnne.Palmer@fda.hhs.gov >; Carey, Lauren < Lauren.Carey@fda.hhs.gov >; Queen, Jackie L < Jackie.Queen@fda.hhs.gov >; Ceric, Olgica < Olgica.Ceric@fda.hhs.gov >; Jones, Jennifer L

A PFR Report has been received and PFR Event [EON-359060] has been created in the EON System.

A "PDF" report by name "2051931-report.pdf" is attached to this email notification for your reference.

Below is the summary of the report:

EON Key: EON-359060

ICSR #: 2051931

EON Title: PFR Event created for Earthborn Holistic grain free bison lamb pacific; 2051931

AE Date	В6	Number Fed/Exposed	5
Best By Date		Number Reacted	4
Animal Species	Dog	Outcome to Date	Died Euthanized
Breed	Setter - Gordon		
Age	6.5 Years		
District Involved	PFR B6 DO		

Product information

Individual Case Safety Report Number: 2051931

Product Group: Pet Food

Product Name: Earthborn Holistic grain free, bison, lamb, pacific

Description: B6 was diagnosed with Taurine Deficit Dilated Cardiomylopathy after attempts to save in him in the ER and hospital stay of 4 days he went into he went into congestive heart failure and was euthanized. He exhibited symptoms of Taurine deficit however was treated for individual symptoms until he collapsed and he had an echo cardiogram which showed the DCM. His mother and sister started to show Taurine deficit symptoms at the same time. Their dog food was switched immediately and placed on Taurine and I carnitine supplements. They all had been on grain free food their whole lives. In hindsight and knowing now what I've learned all too late for B6 I believe two of my other dogs also suffered from this but it wasn't known at the time the possible cause.

Submission Type: Initial **Report Type:** Both

Outcome of reaction/event at the time of last observation: Died Euthanized

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

Product Name	Lot Number or ID	Best By Date
Earthborn Holistic grain free, bison, lamb, pacific		



USA

To view this PFR Event, please click the link below: https://eon.fda.gov/eon//browse/EON-359060

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

 $\underline{https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none\&e=0\&issueType=12\&issueId=375684$

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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.

B6

Date: B6

Patient: 'B6

Findings: Four abdominal radiographs are available.

B6

Conclusion: Prostate enlargement is likely benign hyperplasia and/or prostatitis. Neoplasia cannot be entirely excluded.

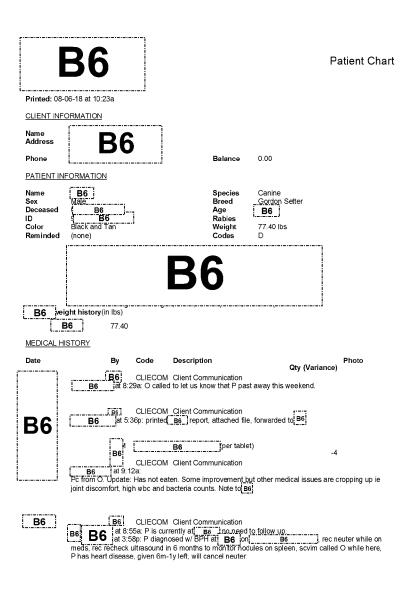
Otherwise unremarkable normal abdomen. Gastroenteritis, pancreatitis and other systemic disease cannot be ruled out.

B6

Please feel free to email or call with any questions or concerns. Thank you,

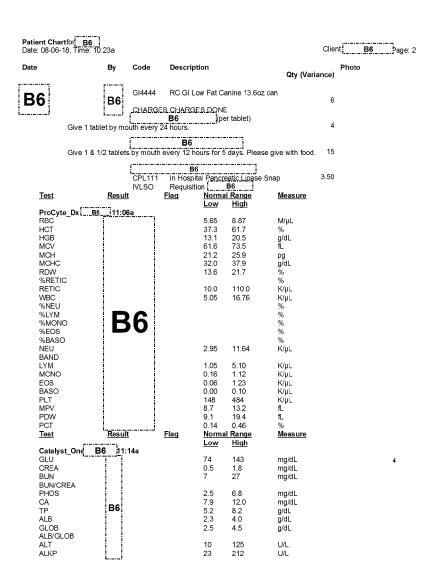
B6

B6 DVM, Diplomate ACVR

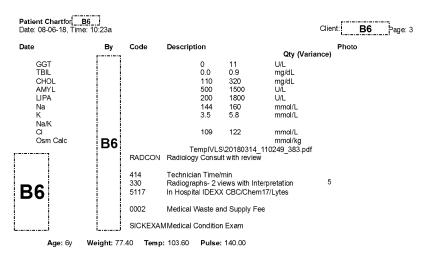


Previous Page ----- Next Page

E12421



Previous Page ----- Next Page



SUBJECTIVE SECTION

Vomited the meal he ate this morning...O. has been monitoring temp at home, and found it varying form 103 to 105. Will not eat now, but did drink water.

OBJECTIVE SECTION

T- 103.8 Mildly painful abdomen Lungs, heart, wnl mm..pink, CRT > 2.0

mm..pink, CRT > 2.0
Blood work..wnl
X-ray..gas fill I. intestine. Took one X-ray at 10 am, noting large gas-filled colon...bladder appeared distended. Took outside for walk, and urinated, taking a long time and urinating in a pulsating manner. Rectal palpation...prostate did not feel enlarged.
X-rays taken at 3 PM, showing normal food material in s. intestine, and still showing gas in I. intestine. I would expect bladder to be small, but still showing possible bladder enlargement, mass?

ASSESSMENT SECTION



Previous Page ----- Next Page

From:	B6
To:	Jones, Jennifer L
Sent:	8/2/2018 5:44:51 PM
Subject:	FW: B6 Medical records Case No 800.267-FDA
Attachments:	B6 PDF
	records I believe you are missing. Also, a B6 may also be sending ed for not sending sooner and was going to attend to it today.
I am looking forward Best regards, B6	to speaking with you on Tues,8/7 at 9:3-ET/7:30 Mt
B6	
From: B6	
Sent: Wednesday, Augu	st 01, 2018 3:25 PM
To: B6	
Subject: B6	

B6

Printed: 08-01-18 at 3:24p

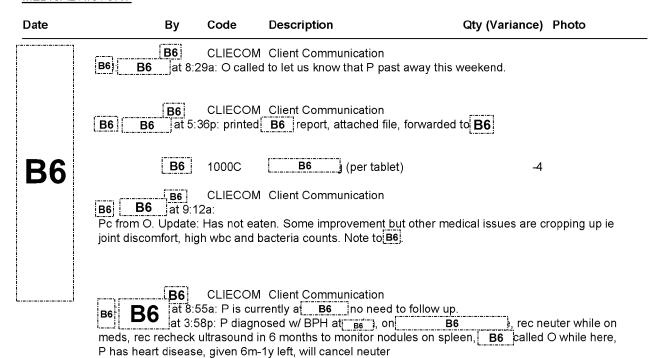
CLIENT INFORMATION

Name **Address** Phone Balance 0.00 PATIENT INFORMATION Name B6 **Species** Canine Sex Breed Gordon Setter Male **B6** Deceased Age B6 ID 956000002491964 **Rabies** 77.40 lbs Color Black and Tan Weight Reminded (none) Codes **B6** weight history (in lbs)

MEDICAL HISTORY

B6

77.40



e	Ву	Code	Descri	ption		Qty (Va	riance)	Photo
0.6		GI4444	RC GI	Low Fat Ca	anine 13.6oz	: can	6	
36	B6	OLIADO.	EO OLIADA	OEO BONE				
	L	CHARG	ES CHAR B6	GES DONE	: r tablet)		4	
Give	1 tablet by mo	uth every		J\PC	i tablet/		•	
		[В6				15	
Give	e 1 & 1/2 tablets	by mouth			days. Pleas	e give with food		
				B6			3.50	
		CPL111			atic.Linase	Snap		
<u>Test</u>	<u>Result</u>	IVLSO	Requis <u>Flaq</u>		B6 I Range	<u>Measure</u>		
<u>10st</u>	Kesuit		riag	Low	High	Measure		
ProCyte_Dx	B6 11:06	ia					·	
RBC		į		5.65	8.87	M/μL		
HCT	į			37.3	61.7	% 		
HGB	į	į		13.1	20.5	g/dL		
MCV	ĺ			61.6	73.5	fL		
MCH	į	ļ		21.2	25.9	pg		
MCHC	į			32.0	37.9	g/dL	1	
RDW	į	į		13.6	21.7	%		
%RETIC	į					%	ļ	
RETIC	į	į		10.0	110.0	K/μL		
WBC	į			5.05	16.76	K/μL		
%NEU						%	1	
%LYM	D	C				%		
%MONO	B	O				%		
%EOS						%	į	
%BASO	į					%	-	
NEU	į	į		2.95	11.64	K/μL		
BAND	į							
LYM				1.05	5.10	K/μL	l _	
MONO	į			0.16	1.12	K/μL		7
EOS				0.06	1.23	K/μL		
BASO	į			0.00	0.10	K/μL		36
PLT		ļ		148	484	K/μL		
MPV		ļ		8.7	13.2	fL -		
PDW				9.1	19.4	fL		
PCT	Ĺ_ <u></u>			0.14	0.46	%		
<u>Test</u>	Result		<u>Flag</u>		l Range	<u>Measure</u>		
Catalyst On	e <u>B6 11</u> ;1	14a		<u>Low</u>	<u>High</u>			
GLU				74	143	mg/dL		
CREA				0.5	1.8	mg/dL		
BUN				7	27	mg/dL		
BUN/CREA				•				
PHOS				2.5	6.8	mg/dL		
CA	De			7.9	12.0	mg/dL		
TP	B6			5.2	8.2	g/dL		
ALB				2.3	4.0	g/dL g/dL		
GLOB				2.5	4.5	g/dL g/dL	İ	
ALB/GLOB				۷.5	٠.٠	grac	1	
				10	125	U/L		
ALT.				10	120	U/L	i	
ALT ALKP				23	212	U/L	į	

Patient Chart for B6
Date: 08-01-18, Time: 3:24p

Date	Ву	Code	Description		Qty (Varia	nce) Photo
GGT		1	0	11	U/L [
TBIL		İ	0.0	0.9	mg/dL	
CHOL			110	320	mg/dL	į
AMYL			500	1500	U/L	
LIPA	B6		200	1800	U/L	B6
Na	DO		144	160	mmol/L	Bh
K			3.5	5.8	mmol/L	
Na/K						
CI			109	122	mmol/L	į
Osm Calc	<u> </u>	j			mmol/kg	
	,		TempIVLS	5\20180314_	_110249_383.pdf	į
		RADCON	Radiology Consu	It with review	/ i	i
		414	Technician Time/	min		5
B6		330	Radiographs- 2 v			
DU	B6	5117	In Hospital B6	_ CBC/Chem	า17/Lytes	
		0002	Medical Waste a	nd Supply Fe	ee	
<u>[</u>]		SICKEXA	MMedical Conditio	n Exam		
	,					

SUBJECTIVE SECTION

Age: 6y

Vomited the meal he ate this morning...O. has been monitoring temp at home, and found it varying form 103 to 105.

Pulse: 140.00

Will not eat now, but did drink water.

Weight: 77.40

Temp: 103.60

OBJECTIVE SECTION

T- 103.8

Mildly painful abdomen

Lungs, heart, wnl

mm..pink, CRT > 2.0

Blood work..wnl

X-ray..gas fill I. intestine. Took one X-ray at 10 am, noting large gas-filled colon...bladder appeared distended. Took outside for walk, and urinated, taking a long time and urinating in a pulsating manner. Rectal palpation...prostate did not feel enlarged.

X-rays taken at 3 PM, showing normal food material in s. intestine, and still showing gas in l. intestine. I would expect bladder to be small, but still showing possible bladder enlargement, mass?

ASSESSMENT SECTION

NOTES

B6

PLAN SECTION

NOTES

Send X-rays to B6

B6

2331 Emergency Fee: During Hours

	art for <u>B6</u> I-18, Time: 3:2	4p			Clie	nt: B6	Page: 4
Date		Ву	Code	Description	Qty (Variance)	Photo	
В6	B6 B6):06a: exam,	Appointment notes for B6 p has a temp of 105 degrees, vom	nited this morning, s	oft stool,	
		В6		B6			
01-02-18	,		CLIECOM	Client Communication			
				B6			

From: B6

To: Jones, Jennifer L **Sent:** 8/7/2018 2:45:01 PM

Subject: Thank you

Dr. Jones,

Thank you for your time today and information. I hope you are successful in finding answers for our dogs. Here is the title to the FB group I spoke about, Taurine-Deficient Dilated Cardiomyopathy. A B6 is the administrator of it. She is the one who contacted me directly asking about taurine testing on B6 She is compiling her own information as are others in the group.

Best regards,

B6

B6

Report Details - EON-	359300					
ICSR:	2052094					
Type Of Submission:	Initial					
Report Version:	FPSR.FDA.PETF.V.V1					
Type Of Report:	Adverse Event (a symptom,	reaction or disease	associated with	n the product)		
Reporting Type:	Voluntary					
Report Submission Date:	3					
Reporter is the Animal	Yes					
Owner: Reported Problem:		My very young 10-year-old female mixed breed dog collapsed while taking our				
	Problem Description:	walk. After rushing her to the vet and getting a sonogram they found out she had DCM. After being diagnosed she collapsed at home and died suddenly the night that I found out that she had DCM. She was an extremely healthy, vibrant, playf and in perfect shape. She had absolutely no signs of DCM or heart issues and did not have a heart murmur. After doing further research on dog food and possible link to Grain free food I was devastated. All of my dogs have been out of a grain free food for years. I am actively taking my other dogs in proactively to get a sonogram of their h grain free food I was devastated. All of my dogs have been on a grain free food for years. I am actively taking my other dogs in proactively to get a sonogram of their heart, To be sure they too dont have this devastating disease. My gut feeling says the dog food and diet definitely has something to do with her sudden death. All of her other blood work came back perfect but I did not know anything about Taurine levels, and possible problems with Earthborn meadowfeast grain free food. I have now switched the rest of the dogs to a different dog food which is not grain free We are now feeding them FROMM CLASSIC.				
	Date Problem Started:	B6				
	Concurrent Medical Problem:	TOTAL TOTAL				
	Outcome to Date:	Died Naturally				
	Date of Death	<u> </u>				
Product Information:	Product Name:	Earthborn meadowfeast				
Troduct imormation.						
	Product Type:					
	Lot Number:					
	Package Type:					
	Package Size:					
	Purchase Date:	100 A				
	Number Purchased:					
	Possess Unopened Product:	AAAAAA				
	Possess Opened Product:					
	Storage Conditions:	Stored in bag then i	nto sealed conf	ainer		
	Product Use	Description:	Daily dog foo	d fed twice daily		
	Information:	First Exposure Date:	***			
		Last Exposure Date:	:: 			
		Time Interval between Product Use and Adverse Event:				
		Product Use Stopped After the Onset of the Adverse Event:				
		Adverse Event	Not Applicable	e		

		Abate After	977
		Product Stop:	
		Product Use Started Again:	No
		Perceived Relatedness to Adverse Event:	Definitely related
		Other Foods or Products Given to the Animal During This Time Period:	No
	Manufacturer /Distributor Information:		
	Purchase Location Information:	Name: Address:	B6 United States
Animal Information:	Name:	B6	Jamieu Glates
	Type Of Species:	,	
	Type Of Breed:		
	Gender:	·	
	Reproductive Status:	Neutered	
	2 (42 Pound	
	Age:	10 Years	
	Assessment of Prior Health:	Excellent	
	Number of Animals Given the Product:	4	
	Number of Animals Reacted:	1	
	Owner Information:		
	Healthcare Professional	Practice Name:	В6
	Information:	Contact:	Name:
			Phone: B6
		Address:	B6
			United States
		Type of Veterinarian:	Primary/regular veterinarian
		Date First Seen:	B6
		Permission to Release Records to FDA:	Yes
Sender Information:	Name:		
	Address:	B6	
		United States	
	Contact:	Phone: Email:	B6
	Reporter Wants to		LL
	Remain Anonymous:		

	Permission To Contact Sender:	Yes
	Preferred Method Of Contact:	Email
	Reported to Other Parties:	None
Additional Documents:	Parties:	
Additional Documents.	77 78 78	

B6

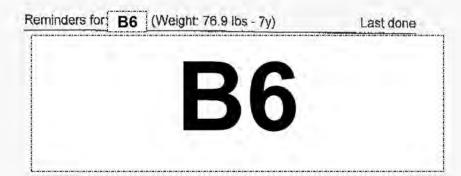
pages including cover: 46

世 26123 The part of the second **B6** Owner's Name Address._ Home Phone Golden Ketlieuz **B6** Breed Species: 12-Bog | Cat | Other. Animal's Name **B6** Sex M Neutered Yes Who Birthdate **B6** DATE DATE RESOLVED MEDICATION NO. MASTER PROBLEMS

B6



Date	For	17/11/10	Description	Discount	Price
			B6		



Visit us on the web at B6 to find out how to have your medications and nutritional products shipped directly to you from our online partner VetSource.

B6

Name:	B6	. *	Exam: Transthoracic E	chocardiogram	
MRN: 232480		DOB: B6	Performed By: (Cardiology)	В6]
Study Date: 07/12/201	8 10:23 AM	Age: 7 y/s Gender: Male	, 24,		

B6

Presenting concern/Case History
Presents for recheck echocardiogram/taurine level. Patient is included in UC Davis Golden Retriever Taurine study as well as Lifetime Golden Retriever Study. Initially diagnosed with mild systolic dysfunction/DCM in Aug 2017, taurine deficiency identified at that time, pet was initially

S = Subjective (complaint/history)

O ≈ Objective (exam)

PROGRESS NOTES

A = Assessmen P = Plan (actio	t (diagnosis, R/O) n/C.E.)	INOGREDOMOTED					
Name	B6	Pet # () Birthdate _	В6	File #	Page	<u>O</u>
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S = Subjective (complaint/history)
O = Objective (exam)
A = Assessment (diagnosis, R/O)
P = Plan (action/C.E.)

SOAP

DATE

PROGRESS NOTES

B6

CODE

CHARGE

B6

Consult Date: 04-11-2018

Patient Details

Male Neutered

Canine Golden Retriever

B6

Referring Vet Details

В6

@History

B6 is here today for a blood draw(purple top tube) for DNA

Thank you for your trust in the care of this patient. Please call if you have any questions or concerns.

B6

Client Details

RECORDS FROM B6

CARDIO SHAM/SVARUATION AND PAPERUS RIC POR

ADMISSION INTO DR. STERN'S Golden Redweren/taurmedylveny/

DCM Study (UCDANS).

Vet/Tech Contact Company Name: Address:		B (6			
Email Tel:	В6	ax:	В6			omani Omani
Billing Contact:_ Email:	N/A	Tel:	TAX ID:			:
Patient Name: Species: Owner's Name:_	D.C.	73 0317	a,		B6	
Sample Type: Test Items:	Plasma Whole Blood Taurine Complete A				The state of the s	nonneme Nadadyjų
Taurine Results (<u> </u>	36 Lurin	e :	Food	d:	

Reference Ranges (nmol/ml)

	I	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	

	사람들이 가장 하는 것이 되었다.
Forms to complete (attached to this email)	A contract of the contract of
MConsent Form (if able to contact client and obtain	date and DNA)
EXDiet History Form	
hosite of nollennolni	₩
□Pedigree Information (A 3 generation pedigree or	link to k9 data information if possible).
La Cardiologist form	B6 has a green sol
MWhole blood or plasmo taurine results	B6 has a a general of pedigle by SRLS, will get when I reform to B6 at rad
MAny officer relevant test results (optional)	I reform to B6
Olagnostics and sample collection to be sent by Fo	IEC.
Mechocardiogram reports for this pet (all available) image studies that match the echo reports (we may measurements in the future). Cody Rad S	wish to load the images and make comparative
13mL of whole blood in a tube with EDTA, no need	
	r labor three
B	· i
For more information or if you have any questions	egarding the case submission - email loshua Stern

at sterngeserics@ucdavis:edu



Profecal Number.

Owner Informed Consent Form

Title of clinical mat: Developing a genetic library for congenital and acquired heart disease.

Investigator(s): Dr. Joshua Stem 530-752-2475, jstem@ucdavis.edu.

Why is my pet being invited to take part in this clinical trial?

DNA samples are needed from dogs, cats and horses with and without heart disease. Your patient may have been diagnosed with heart disease or may be requested to serve as a normal control sample.

Why is this clinical trial being done?

Dr. Stem is a veterinary cardiologist and geneticist that studies inherited heart disease and the impact that genetics plays in response to heart inedication. This study allows us to collect genetic samples for use in future studies to identify important mutations and the role that genetics may play in disease diagnosis and treatment.

What will my time commitment be if I choose to enroll my pet?

You are only being asked for permission to obtain a small blood sample (2ml) from your pet. In many instances this will be drawn at the same time other tests are being performed on your patient as indicated by your directan. If no other blood is required for your pets visit a small needle will be used to collect this blood sample from a vein.

If I choose to enrall my pet in this clinical trial, what will happen to my dog?

 A small blood sample will be obtained from a vein and that sample will be retained by the cardiac genetics laboratory for use in future genetic studies.

What happens if I do not want to enroll my dog in this clinical trial?

Participation in this study is voluntary; refusal to participate will not have any effect on your animal's future medical care:

What happens if I choose to enroll my pet, but I change my mind later?

You can remove your pet from the study at any time and it will not affect the medical care of your dog.

Please note that we will not remove any data from the trial database that has already been collected if you choose to remove your pet from the study.

If I choose to enroll my pet what are my responsibilities?

There is no cost or benefit to your dog for participating in this study.

Will being in this trial help my pet or other pets in any way?

We cannot promise any benefits to your dog or other animals from your taking part in this clinical trial; however; possible benefits include better understanding of genetic disease process and mechanisms for predicting patients response to medical therapy.

Could this trial hart my per?

Other than minor discomfort and trivial bruising or swelling associated with drawing blood, there is no risk associated with your dog, eat or horse's participation.

Owner Consent Form

Page 1 of 2

Last Modified: 04/12/2013



Protocol Number:

What happens to the information collected for the clinical mal?

All client and animal details, and information obtained from the study will be considered confidential and will be used for research purposes. We will limit the use and/or disclosure of your information or that of your dog to people who have a need to review this information.

The blood taken from your dog for this study will become the property of the University of California. The specimens may be used in research and may be shared with other organizations. The specimens could lead to discoveries or inventions that may be of value to the University of California or to other organizations. Under state law, you do not have any right to money or other compensation attemming from products that may be developed from the specimens.

We may publish the results of this research. However, we will keep your name, the name of your dog, and other identifying information confidential.

What about cost?

There is no cost or cost benefit to you for participation.

The results of this study, including specimens collected, may have commercial value to the sponsors, the University of California Davis, and/or the researchers. You will have no legal or financial interest in any commercial development resulting from the research or from the information or materials collected.

Who can I talk to it I have questions? If you have questions, concerns, complaints, or think the study has negatively affected your dog, please contact the investigator. This research has been reviewed and approved by the institutional Animal Care and Use Committee (IACUC) and the Clinical Trials Review Board (CTRB), You may talk to 530-752-2364 or lacue-staff@ucdavis.edu if you cannot reach the investigator. В6 By signing below I agree to permit my per (insert name) to participate in this clinical study and undergo the procedure described to me above. By signing below, I understand the statements in this informed consent document and that a signed and dated copy of the consent form will be given to me. 4/4/18 **B6** Signature of Owner Date **B6** Printed Name of Owner

Printed Name of Person Obtaining Consent

Signature of Person Obtaining Consent

Owner Consent Form

Page 2 of 2

Date

Last Modified: 04/12/2013



Diet History Form® Nutrition Support Service

Veterinary Medical Teaching Hospital Une Shields Ave, Davis, CA 95616-8747 Ph: 630-752-7892 / Fax: 530-752-7901 Email: nssvetnred@ucdavis.edu

Pet name;	DATE: 4/4/18
Owner name: Owner phone:	VMTH ID Number, if current or previous patient:
Reason for consult: I'd like an appointment to bring my pet to UC Davis I'd like to work through my veterinarian	Current weight:kg o(lb) Ideal weight:kg or lb
Please describe pet's activity level (i.e. type, duration B6 Do you have other pets? If Yes I No If yes, please	
	And the second s
Is your pet fed in the presence of other animals? O Ye Is food left out for your pet during the day or taken av HE has righting left. Luces or	s IrNo If yes, please describe:
Is your pet fed in the presence of other animals? O Ye	vey after the meal?
Is your pet fed in the presence of other animals? Of Ye is food left out for your pet during the day or taken as the hac frothing left. Laces on Does your pet have access to other unmanitored food ood, etc.)? Of Yes Broot if yes, please describe: Who typically feeds your pet? Ms most fly. How do you store your pet's food? Small plas	vey after the meal? No House describe: vey after the meal? No House lieft of sources (i.e. food from a neighbor, cat
Is your pet fed in the presence of other animals? a Ye Is food left out for your pet during the day or taken av HE has rothers left. Looss or Does your pet have access to other unmonitored food ood, etc.)? If Yes BNo If yes, please describe: Who typically feeds your pet? Ms most fly How do you store your pet's food? Small plas or eloss for rich of acost of Please list your pet's oursent and past medical prob	rey after the meal? The Contoner esther of pontry

DIETHISTORY FORM

three months	all medications your pe note those that are curr			y administered o	wer the past
· The same of the	WOONE 1000 F	MAL ST	187246-	twice a d	City of
A STATE OF THE STA		The second secon	and the second s	and the said transfer of the s	
butter or F	u administer medication ill Pockets are used, plea for the following model in the perior and the period and the perior and the	se estimate an	nounts fed pe	chay.	as peauut
-ALL fouds, sa -Separate out	iacks, and treats your p each ingredient in a h nan food items are me	oet <u>currently</u> ea ome-cooked di	et (each ingra	dient on its ow	n line). italics.
Brand name	Food/Variety	Form/how cooked	Amount *per meal*	# of meals per day	Fed since
"X" Brand	Ghicken breast; skihless, baneless	baked	50 grams after cooking	3 times per week	May 2014
Service of	Lamb & Nice Adult Dan	dev	1 16 / 1/105	Twies a day	None 2012

B6

Additional supplements your pet receives now [i.e. herbal product fish oil, vitamin or mineral, etc.]

Direct		Supplement	Form	Amount	# per day	Fed since
<u>,-3</u>	eren Desert	.mwUhulkamin	tablet	1 tables	2 times per day	May 2011
-			В	6		
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	Marie Committee of the	V. Ch. 1915 involved	was programmed the second	many the same of t	Accessor to the second	Library Constitution of the Constitution of th

13. Die (s) that the petate in the past

«ALL foods, snacks, treats, and supplements your per has received in the past

-Indicate the approximate time period when they were fed. Example in italics.

Brand Name	Product/Variety	Form	From	To	Reason stopped	
"X" Edward	Kliten formula	comied	June 2011	March 2012	Became an adult	
Fromms.	Lamba Leaval	d14 ?	1114	8/17	PEAR + IEntyl	
Fro mm	Salmon a for Day	dres	8/1-	1/18	would not	
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proposition granification that the state of	2.3 (4.5)		32. 30. 31. 31. 34. 5	Andrew Market and Andrew Marke	profes	
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S		his till plant out of the same	<u> </u>	1 a magazina processor de		
No complete production for the deather and and	the course and the control of	Company of the second s	I want to be a second	1	1	

Page 2 of 3

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DIET HISTORY FORM

1.4. Has your pet experier	aced any of the tollor	wing. No	
n Recent involuntary of	rumntended weigh	change:	
1.4.	1	w much?kg c	or ib.
Over what time perio	7.		
		mes/week. Over what t	me period?
n Diarrica: "	mes/day ti	mes/week.Over what t	me period?
15. Have you observed cl	in the second se	** ** ** ** ** ** ** ** ** ** ** ** **	The second secon
U Unimation OR G De	icking What was the	specific change?	
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Since when?		N. W. and the second second second second second second second second second second second second second second	norman en 1900 et 1900 et 1900 et 1900 et 1900 et 1900 et 1900 et 1900 et 1900 et 1900 et 1900 et 1900 et 1900
16. Does your net have	a good appetite?	Typically: EYes [] No	Currently: TYes II No
Since when?	alexant.	9000	and the same of th
17. Does your pet have?			llowing
If so, please describe:			Na
	ģ.		and an appropriate of the first of the second and t
Please fill out this section	n if a home-cooked c	tiet formulation is requ	ested. If diet formulation is
Please fill out this section needed due to an advergence of the protein and carbohydre should be determined programmed pr	n if a home-cooked over the first are sources that are for to submitting the nail preferences or ho	liet formulation is requiod(s), please provide e hoth palatable AND stequest.	ested. If diet formulation is a us with some options of tolerated by your pet. This
Please fill out this section needed due to an adviprotein and carbohydre should be determined or lifyou have specific person foods, please let us know.	n if a home-cooked over the first are sources that are for to submitting the nail preferences or ha	liet formulation is required formulation is required for the policies of the	ested. If diet formulation is c us with some options of tolerated by your pet. This oes not tolerate specific.
needed due to an adv	n if a home-cooked over the first are sources that are for to submitting the nail preferences or ha	liet formulation is requiod(s), please provide e hoth palatable AND stequest.	ested. If diet formulation is c us with some options of tolerated by your pet. This oes not tolerate specific.
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Page 3 of 3

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CARDIOLOGIST FORM FOR GOLDEN RETRIEVER TAURINE STUDY

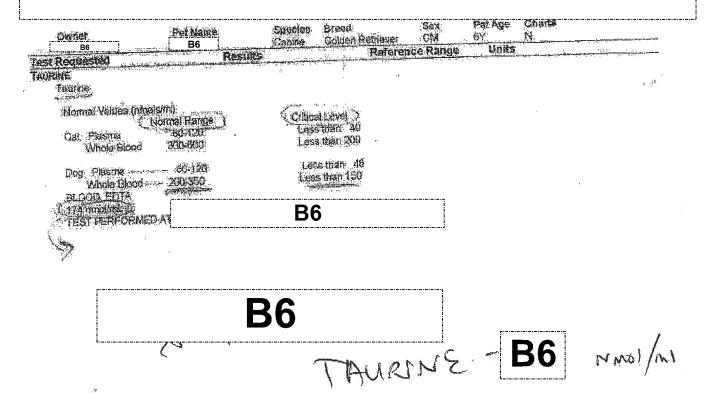
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Owner Name		B6		
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Thank you very much for your time and effort in contributing to this study.

CARDIOLOGIST FORM FOR GOLDEN RETRIEVER TAURINE STUDY

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Thank you very much for your time and effort in contributing to this study.



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PARTIAL

Page 1

FDA-CVM-FOIA-2019-1704-016114

В6

DIAGNOSIS:

f. Overall normal cardiac chamber size and normal morphology of the heart; reduced fractional shortening can be normal for some dogs; although can be an indication of hypothyreidism and occult dilated cardiomyopathy. However, this could potentially be normal for this particular patient.

COMMENTS: Further work up could include running certain cardiac biomarkers such as a Troponin C and a Pro BNP as well as a full thyroid panel to ensure that there is no evidence of hypothyroidism that could result in a depressed contractility. A 24 hour Holter exam could be done in order to evaluate for the presence of ventricular premature confractions (none seen on today's echocardiogram) as there can be an increased number of VPCs per 24 hours in dogs with occult dilated cardiomyopathy. In the event that there is elevation of the Troponin C/cardiac blomarkers or any indication of increased ventricular premature contractions, then we can certainly stan taurine and L-camiline supplementation. It is certainly reasonable to choose to monitor both the taurine level and the echocardiogram and recheck both in 6 months or ultimately supplement and recheck an echocardiogram in 6 months. The dose of taurine is 1 to 3 g per dog per 24 hours and the dose of L-carnitine is 1 g per dog BID to TID. It should be noted that the cardiac morphology in this patient is still normal and that the exam is currently incondusive as there is still some evidence of an abnormality noted.

В6

Breed:

Golden Retriever

Sex:

Male neutered

DOB/Age:

7 years

Weight:

73.4 lbs.

Retriever Litetime Study and as part of the blood work, they had a faurine level done which came back low at B6 with a low normal of 200; although, the critical value is < 150. The owner was interested in pursuing an echocardiogram to assess for any evidence of dilated cardiomyopathy. The patient auscultates normally.

EXAM: The left atrium was normal in size and there was no evidence of any thrombi or smoke within the atrium. The left ventricle was normal in size in diastole and systole. The left ventricular free wall and septal wall were normal size. The myocardium was homogenous with no focal masses or infarcts. The mitral vaive was normal thickness and demonstrated normal motion. The right atrium and right ventricle were appropriate in size as compared with the left heart. Gentracility was subjectively mildly depressed and fractional shortening was reduced with an average value of 22%. The EPSS was normal at 0.8 cm. The mitral valve inflews were normal. The left and right ventricular outflow tracts were normal it appearance with no evidence of stanotic lesions. The incuspid valve, aortic valve and pulmonic valve were smooth and normal thickness. Acriic flows and pulmonic flows were normal in velocity. There was no evidence of mitral or tricuspid regurgitation. There was no evidence of pleural or pericardial effusion nor any masses. The EKG demonstrated a normal sinus rhythm.

Subject:	В6	
From:	В6	
Date:	Thursday, April 12, 2018, 6:07	7:47 AM EDT
Additional	info from cardiologist in	В6
Sent from	my iPad	
Begin forw	varded message:	
1	Medical Records B6 larch 29, 2018 at 8:30:09 PM E B6	EDT

Hi B6
Wanted to let you know that I just heard back from Dr. Stern. He will be sending me the paperwork to enroll B6 and knows the sample is on it's way to the lab there.

He said he typically supplements taurine and L-carnitine simultaneously so you can add L-carnitine (1500mg 2-3 times daily). He recommends a recheck echo in 4 months from when supplements are started, and add Pimobendan at that time if not improved. If this is true taurine deficiency cardiomyopathy he said the vast majority will improve in 4 months and normalize in 8mo. If that is not the case then we have to worry about primary disease. Hope that makes sense! Let me know if any questions and we will go from there. Have a great weekend

nave a great weekend

3/28/18 whole blood tourin: **B6** Subject: Date: Yesterday at 6:54 PM В6 To: **B6** Please find attached the clinical summary for **B6** B6 has been evaluated by **B6** This report has been generated to provide you with the medical information required to continue with your assessment for this patient. Please contact us should you require more information. Thank you for this referral, **B6**

Consult Date: 03-09-2018

Patient Details

Duffy - Male Neutered

Canine Golden Retriever

7 years 3 months



B6



WHistory

B6 presents today for a cardiac evaluation and taurine level. B6 in the 3000 Goldens Against Cancer study. Last October, he had an echocardiogram in B6 which showed a mildly elevated left ventricle with decreased function. His taurine level, at that time, was low B6. Owners have since changed his diet from FROMM Lamb and Lentil to Farmina, with a higher amount of taurine. He has been doing well at home, with no cough or labored breathing, normal appetite and exercise tolerance. He does pant heavily but typically after walks or playing.

No current medications.

Current body weight: 75.6 lb

MPhysical Exam

Mucous Membranes: Pink

CRT: Normal

Heart rate: 90; respiratory sinus arrhythmia

Murmur: None

Respiratory rate: Pant

Lung auscultation: Lungs auscult clear bilaterally Respiratory effort: Normal rate and effort Abdomen: Normal palpation, non-painful

△Diagnostic Result

Echocardiogram-CompleteDiagnostic (Ref: US10398-DR6911)

Outcome

Moderate decline in LV myocardial function. LVFS 21%. Moderate LV dilation. LVIDd 5.86cm. Increased EPS5.1.10cm. Trace mitral regurgitation detected with color flow Doppler. No left atrial enlargement. LA:Ao 1.28. No tricuspid regurgitation detected with color flow Doppler. No right atrial enlargement. Normal pulmonic and aortic outflow velocities.

Patient Details	B6	Client Details		В6	
LVID LVPW F5% B6				,	-
Left Atr Aorta (LA/Ao					
Doppler Measurements Aortic Flow MV EPSS: 1. Pulmonic Fle Pulmonic Fle					
ECG - Echocardiogram Extended rhythi	m ECG (Ref: 1	U510398-DR6912)			
Outcome A respiratory sinus arrhythmia was not	ed during the	e echocardiogram. No ecto	plc beats, tachy or br	adyarrhythmias w	ere noted.
Doppler Blood Pressure (Ref: US10398	-DR6913)				
Outcome Non-invasive Doppler blood pressure in Three successive readings performed; Mild stress, sternal recumbency.	easurement	performed on the antebra B6	chium using a # 8 cu	ff.	· · · · · · · · · · · · · · · · · · ·
©Assessments		5 P. 1991			
Suspect early dilated cardiomyopathy;	çannot rule	out taurine-deficiency as a	contributing factor.	r to e r destron d	
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†Plans	.w. a	PE ANNO SELEN AND THE TOP LINES.	, er er bli er ger i til er er bli entlik i i samtan i	B JONES F. William of the committee of t	T 13
B6 today's echocardiogram Compared to the study done previously remains decreased although unchange dietary or hereditary/primary remains the change is significant. We submitted supplementing the taurine at home (10 the results are available.	y, there is ap ed overall (20 to be seen. V d blood for a	proximately 1cm increase 1%), This Information is co We did discuss different uit taurine level today and re	in both LV dimension icerning for true early rasonographers make sults are pending. At t	s (systolic and dias DCM, whether it is it hard to compan this point we have	stolic). The function s due to something e directly, however recommended
We also discussed the use of B6 a normal LA dimension, I have not insti LA translates to a relatively low current	ituted this to	day. We will revisit in the t	uture depending on p	ven unchanged sys rogression. In the	stolic function and interim, a normal
Reassessment is recommended in 6 m			ored breathing, collap	ose episodes, etc)	we recommended
The owner is aware of the need to seel request a cardiology recheck in 6 months			cough, labored breati	hing, or exercise in	itolerance, We
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Thank you for your trust in the care of this patient. Please call if you have any questions or concerns.

FDA-CVM-FOIA-2019-1704-016121

Patient Details

В6

<u>Client Details</u>

В6



Donate

Menu

Researchers getting closer to understanding dietary taurine and heart disease in dogs

Canine Health | Study Participant News



September 19th, 2017

Share Story

Link between taurine deficiency and heart disease first discovered in cats

In 1987, a remarkable article was published in the prestigious journal, *Science*. Veterinarians in the School of Veterinary Medicine at University of California, Davis, reported that a deficiency of taurine, an amino acid, was responsible for the development of dilated cardiomyopathy (DCM), a form of heart muscle disease, in cats.

The veterinary community was stunned; not only because this was a new report of a dietary nutrient and heart disease, but that the disease was reversible when taurine was added to the diet of affected cats. This makes perfect sense because taurine is an amino acid that is abundant in meat so carnivores (like cats) never developed the ability to make their own taurine and must get it from their diet. Adjustments to commercial cat diets soon followed, and since publication of the article 30 years ago, dilated cardiomyopathy in domestic cats has almost completely disappeared.

https://caninelifetimehealth.org/all/study-participant-news/rese...er-to-understanding-dietary-taurine-and-heart-disease-in-dogs/

1/22/18, 9:46 AM Page 1 of 4 As omnivores, the story for dogs isn't quite so elegant.

Soon after the Science article was published, there was a flurry of research looking for a similar link between nutrition and DCM in other species, including dogs. However, it quickly became apparent to veterinary cardiologists that DCM in dogs was not going to have a tidy resolution.

Throughout the late 1980s and continuing through the 1990s, many veterinary cardiologists looked at a variety of nutrients, including taurine, in their canine patients with dilated cardiomyopathy. Scattered reports of taurine deficient dogs with heart disease appeared in the veterinary literature, but the vast majority of dogs with DCM had normal taurine levels. However, recent reports in golden retrievers have veterinary cardiologists revisiting taurine and DCM in this breed.

Dilated cardiomyopathy in dogs - the basics

The heart is a complicated organ with lots of moving parts. The heart has valves that help direct the flow of blood into and out of the heart; muscle that contracts to pump blood throughout the body; and blood vessels that supply the heart with nutrients and remove wastes. A variety of diseases can affect any of these parts. Cardiomyopathies are a group of diseases that affect the heart muscle, and DCM is one form of this type of problem.

In DCM, the heart muscle weakens. This weakening can happen for a variety of reasons, but regardless of the underlying cause, the end result is a thinning of the walls of the heart. The heart becomes more like a flabby balloon than a powerful, muscular organ. The heart simply cannot pump blood efficiently, and lots of blood remains in the heart with each beat. At first, the body can try to compensate for poor blood flow, but eventually these mechanisms are overwhelmed, and the patient develops heart failure. Medications can help control the heart failure, but therapy can't stop the relentless progression of the disease.

There are many causes of DCM, While DCM is classically thought of as an inherited disease of the heart muscle, there are many causes of heart chamber dilation and reduced heart function that can mimic DCM.

Other causes of cardiomyopathy include toxicity associated with the chemotherapeutic agent doxorubicin, and deficiencies of the nutrients taurine and carnitine.

Taurine deficiency and DCM in dogs

Unfortunately, many dog breeds with high incidence of DCM, such as the Doberman pinscher, didn't have documented taurine deficiency but rather an inherited form of this disease. However, in some breeds, a link to taurine deficiency was discovered.

In the mid-1990s, the cardiology group at University of California, Davis, spearheaded a large, multicenter study looking at DCM in American cocker spaniels. They documented low taurine levels in many of their study dogs, and they found that once taurine was supplemented in the diet, heart function improved, sometimes significantly.

In 2003, researchers reported that some Newfoundland dogs had reversible DCM associated with taurine deficiency, and in 2005, another team published a report on a family of golden retrievers with taurine-deficiency and reversible DCM. Based on these reports, veterinary cardiologists recommended that taurine levels be tested in dogs diagnosed with cardiomyopathy, particularly if they were a breed not usually associated with the disease, or were an American cocker spaniel, Newfoundland or golden retriever.

As cardiologists continued to document cases of DCM associated with low blood taurine levels, they continued to search for a common thread that tied these cases together. In many cases, diet was believed to play a major role in the disease.

The role of diet in taurine desciency and DCM

It was logical for veterinary cardiologists to focus on diet as the root cause of DCM related to taurine deficiency. For many dogs with DCM, common dietary trends emerged that strongly correlated with the disease.

"Diet plays a huge role in this condition," said Dr. Josh Stern, a Morris Animal Foundation-funded researcher, owner of a Golden Retriever Lifetime Study participant (Lira, Hero #203), and veterinary cardiologist studying this disease. "Home-cooked diets have been implicated in this problem, as well as small batch, boutique dog foods."

Other studies have linked high fiber, lamb and rice meal, and very-low-protein diets to the condition.

Dr. Stern said veterinary cardiologists were trained to measure taurine levels in dogs diagnosed with DCM if they weren't a breed known to have a genetic link to the disease, such as Doberman pinschers or boxers. However, a recent upswing in the number of DCM cases in dogs has put veterinarians on the alert for the disease. In addition, one breed appears to have a big surge in this problem – golden retrievers.

Taurine deficiency and DCM in golden retrievers – an emerging problem?

A recent surge in the number of golden retrievers diagnosed with taurine deficiency and DCM has many golden retriever owners and breeders concerned. Although taurine deficiency DCM has been reported in the breed, some cardiologists are seeing more golden retrievers with the disease than normal.

This perceived uptick in cases spurred Dr. Stern to look more closely at this phenomenon. As a veterinary cardiologist and golden retriever owner, this disease hits close to home. Dr. Stern has been collecting blood samples and cardiac ultrasound data from golden retrievers both with and without the disease. Although diet plays a role in the golden retrievers, Dr. Stern suspects genetic factors might be involved in increasing the risk of this conditions within the golden retrievers breed.

"I suspect that golden retrievers might have something in their genetic make-up that makes them less efficient at making taurine," said Dr. Stern. "Couple that with certain diets, and you've given them a double hit. If you feed them a diet that has fewer building blocks for taurine or a food component that inhibits this synthesis, they pop up with DCM."

Dr. Stern is gathering data and hopes to publish his initial findings soon. His hope is that he can offer scientifically based guidelines for golden retriever owners regarding diet and DCM in this breed. Dr. Stern will be drawing blood samples for taurine measurement at the upcoming Golden Retriever Club of America National Specialty, and hopes to add to his already impressive database.

What's next?

The good news is that DCM secondary to taurine deficiency has a very good long-term prognosis. Taurine supplementation often reverses the heart muscle abnormalities, and many dogs can be completely weaned off heart medications.

Veterinary cardiologists are spreading the word about taurine and DCM in dogs, and researchers such as Dr. Stern are piecing together data to get a clearer picture about this problem. Identifying a genetic abnormality associated with the disease could lead to a diagnostic test which might identify at risk dogs.

Getting the word out to owners also is important. Knowing breed dispositions for disease helps both owners and their veterinary health care team make the best decisions for each patient.

Is the Golden Retriever Life...ms Study looking at taurine-deficient dilated cardiomyopathy?

Taurine is not currently measured routinely in enrolled dogs. However, banked samples are available to researchers, and the study team continually monitors disease information as it's received. If you think your dog is at risk or clinically affected, please work with your family veterinarian to determine what's best for your dog.

Morris Animal Foundation has been a leader in canine heart disease research for more than 50 years. Beginning with our first grant to define what a normal canine electrocardiogram looks like to our most recent grants identifying genetic markers for heart disease, the Foundation has been deeply committed to advancing cardiovascular research in dogs. Read about our latest research grants as well as our history of heart disease research.

Learn more about Dr. Stern's research and submit samples to his laboratory for taurine measurement.

Previous Story

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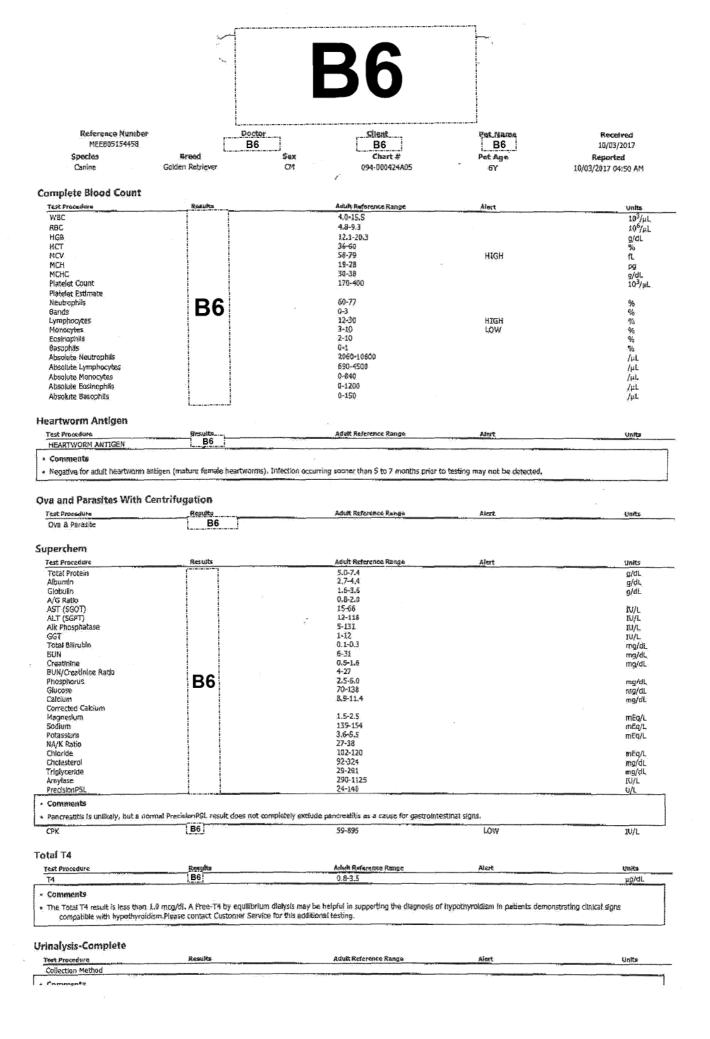


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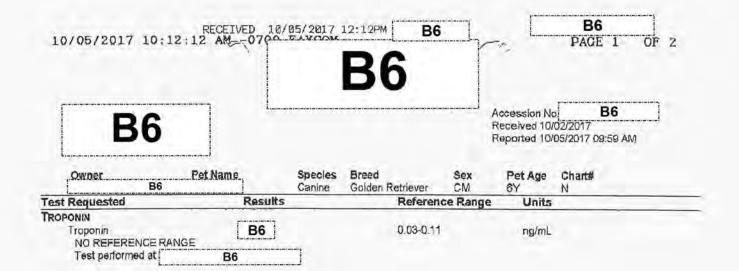
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Date of Exam:

9/12/17

Invoice:

9623

Doctor: Hospital: Phone #:

B6

Patient's Name:

B6

Breed:

Golden Retriever

Sex:

Male neutered

DOB/Age:

7 years

Weight:

73.4 lbs.

HISTORY: B6 has a generally healthy history. This dog is enrolled in the Golden Retriever Lifetime Study and as nart of the blood work, they had a taurine level done which came back low at B6 with a low normal of 200; although, the critical value is < 150. The owner was interested in pursuing an echocardiogram to assess for any evidence of dilated cardiomyopathy. The patient auscultates normally.

EXAM: The left atrium was normal in size and there was no evidence of any thrombi or smoke within the atrium. The left ventricle was normal in size in diastole and systole. The left ventricular free wall and septal wall were normal size. The myocardium was homogenous with no focal masses or infarcts. The mitral valve was normal thickness and demonstrated normal motion. The right atrium and right ventricle were appropriate in size as compared with the left heart. Contractility was subjectively mildly depressed and fractional shortening was reduced with an average value of 22%. The EPSS was normal at 0.8 cm. The mitral valve inflows were normal. The left and right ventricular outflow tracts were normal in appearance with no evidence of stenotic lesions. The tricuspid valve, aortic valve and pulmonic valve were smooth and normal thickness. Aortic flows and pulmonic flows were normal in velocity. There was no evidence of mitral or tricuspid regurgitation. There was no evidence of pleural or pericardial effusion nor any masses. The EKG demonstrated a normal sinus rhythm.

Canine Echocardiographic Parameters

B6

DIAGNOSIS:

1. Overall normal cardiac chamber size and normal morphology of the heart; reduced fractional shortening can be normal for some dogs; although can be an indication of hypothyroidism and occult dilated cardiomyopathy. However, this could potentially be normal for this particular patient.

COMMENTS: Further work up could include running certain cardiac biomarkers such as a Troponin C and a Pro BNP as well as a full thyroid panel to ensure that there is no evidence of hypothyroidism that could result in a depressed contractility. A 24 hour Holter exam could be done in order to evaluate for the presence of ventricular premature contractions (none seen on today's echocardiogram) as there can be an increased number of VPCs per 24 hours in dogs with occult dilated cardiomyopathy. In the event that there is elevation of the Troponin C/cardiac biomarkers or any indication of increased ventricular premature contractions, then we can certainly start taurine and L-carnitine supplementation. It is certainly reasonable to choose to monitor both the taurine level and the echocardiogram and recheck both in 6 months or ultimately supplement and recheck an echocardiogram in 6 months. The dose of taurine is 1 to 3 g per dog per 24 hours and the dose of L-carnitine is 1 g per dog BID to TID. It should be noted that the cardiac morphology in this patient is still normal and that the exam is currently inconclusive as there is still some evidence of an abnormality noted.

B6

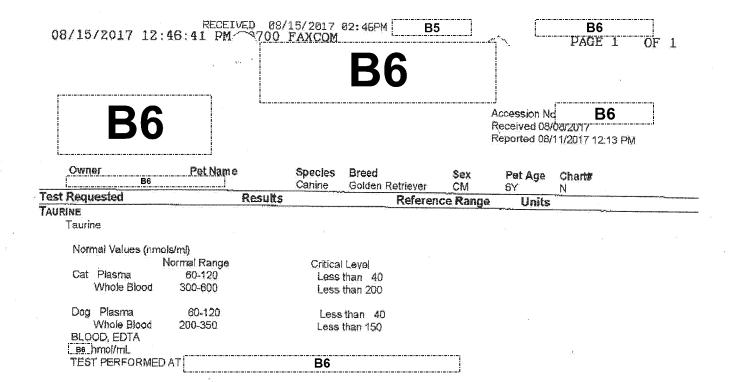
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SANTA BARBARA . SANTA CRUZ

SCHOOL OF VETERINARY MEDICINE DEPARTMENT OF MEDICING & EPIDEMIOLOGY UNIVERSITY OF CALIFORNIA (530) 752-1363 FAX (530) 752-0414 ONE SHIELDS AVENUE DAVIS, CALIFORNIA 95616-8734

June 28, 2017

Taurine-deficient Dllated Cardiomyopathy (DCM) in Golden Retrievers

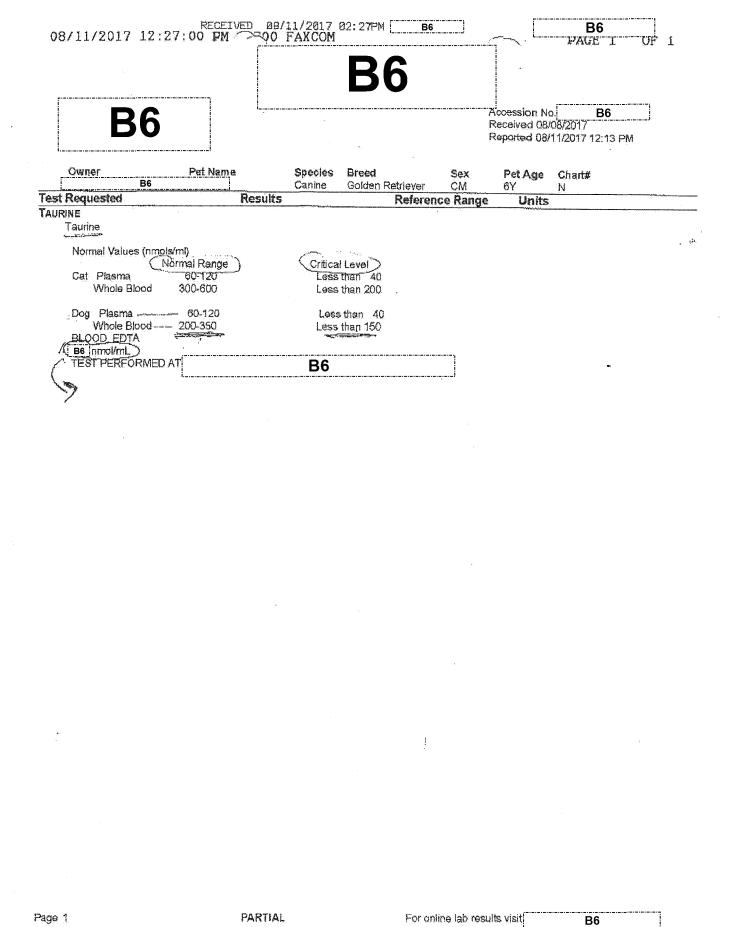
In the wake of many Golden Retrievers being diagnosed with taurine-deficient DCM, we have started to collect information to better understand the condition and help the Golden Retriever community. Unfortunately, many owners have identified concerns and proceeded with supplementation or diet change without first obtaining appropriate diagnostic criteria. This approach has led to more confusion and an inability to definitively say whether some dogs have an inherited cardiomyopathy or a nutritionally derived heart disease. This makes a huge difference in the prognosis and outcome for these dogs and their possible continuation in the breeding pool. Please review the following steps regarding evaluation of taurine-deficient DCM. Our group has put this together to help get to the bottom of this issue as fast and as medically appropriate as possible.

- 1. If you believe your dog is at risk for taurine deficient Dilated Cardiomyopathy (DCM) and wish to have taurine levels tested please request a whole-blood taurine level be submitted (lithium heparin tube) for analysis. The laboratory that I recommend can be found here: http://www.vetmed.ucdavis.edu/vmb/labs/aal/
- 2. If you believe your dog is showing signs of DCM already please seek an appointment with a board certified cardiologist to have an echocardiogram and taurine testing obtained simultaneously - do not change foods, do not supplement prior to the appointment.
- 3. If you receive taurine test results that come back as low please seek an appointment with a board certified cardiologist to have an echocardiogram performed to determine if your pet needs cardiac medications and the appropriate supplements to be used (DO NOT SUPPLEMENT OR CHANGE FOODS UNTIL YOU HAVE THE CARDIOLOGY EVALUATION COMPLETED). If you live in close to UC Davis, we can arrange research-funded cardiology evaluations for your dog if you contact us via stempenetics@ucdavis.edu.
- 5. If you have any questions on how to proceed please email Dr. Stern at sterngenetics@ucdavis.edu.

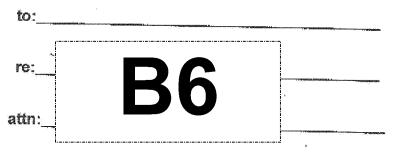
Kind Regards,

Joshua A Stern, DVM, PhD, DACVIM

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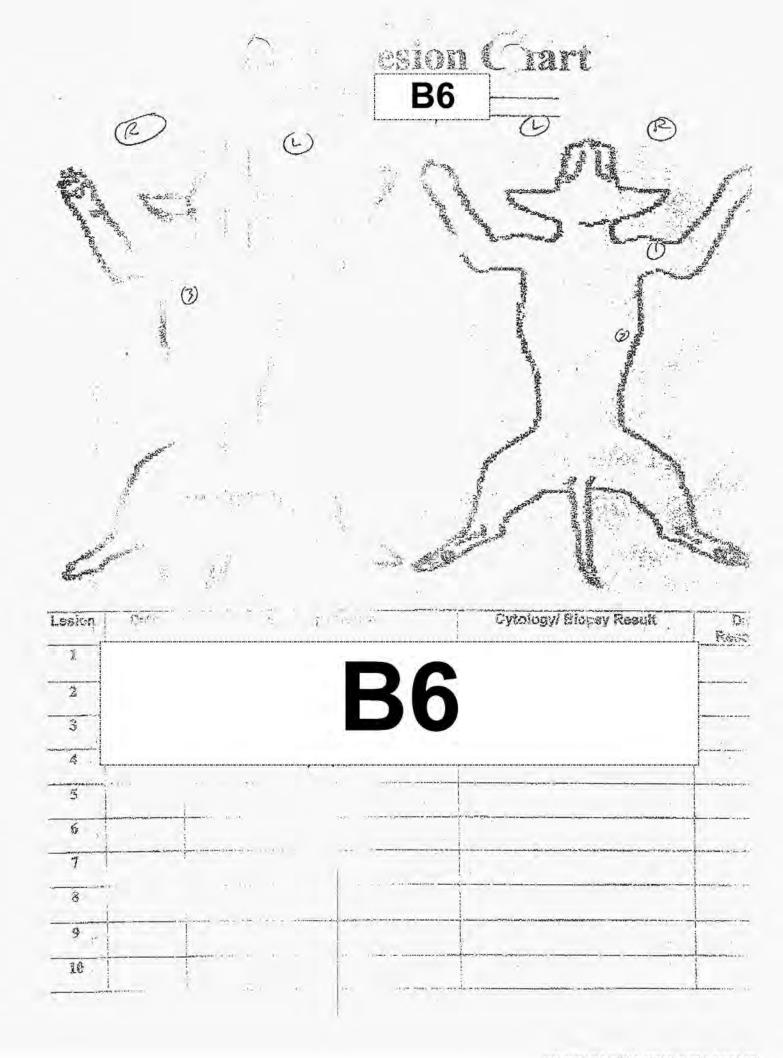
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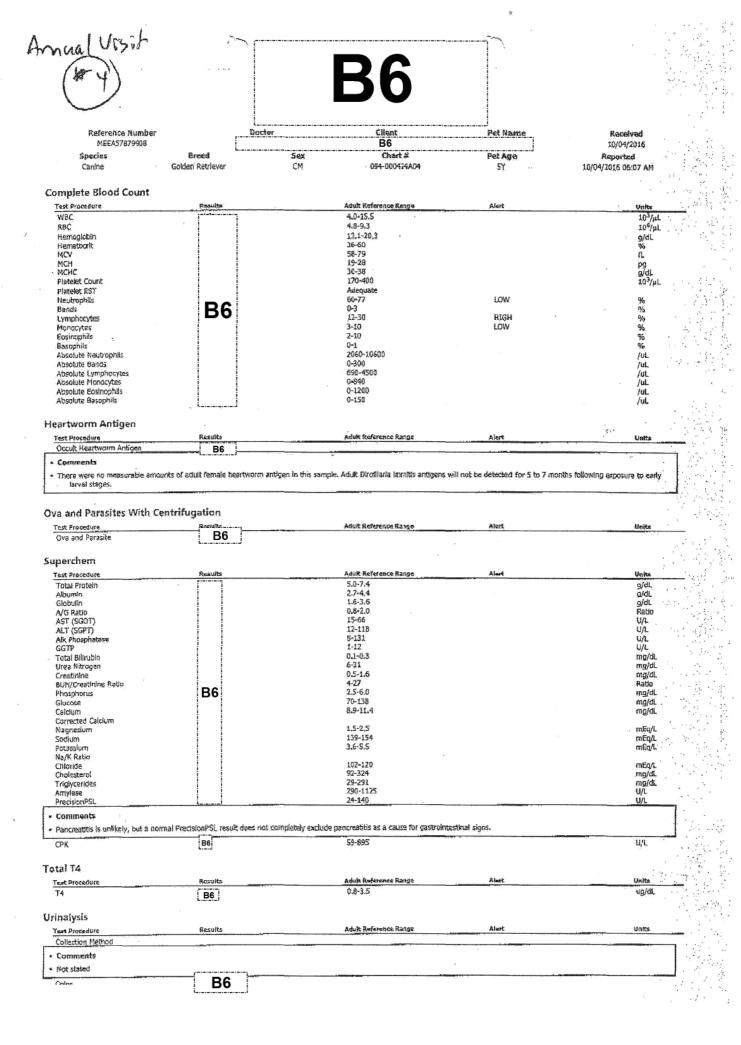
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P = Plan (action/C.E.)

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Patient Info:
Name: B6
Chart No: 094-000424
Owner: B6
Doctor: B6

Species: Canine Breed: Golden Retriever Age: 3Y Sex: CM

Hospital:

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Results Test Requested OVA AND PARASITES WITH CENTRIFUGATION

Ova & Parasite

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For online lab results visit B6

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S = Subjective (complaint/history) O = Objective (exam) A = Assessment (diagnosis, R/O) P = Plan (action/C.E.)				PROGRESS NOTES					•
B6			Pet#(	) Birthdate <b>B6</b>		File#	Page	(N)	
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**B6** 

Accession No. **B6**Received 10/08/2013
Reported 10/08/2013 07:01 AM

Owner Pet Name B6 Species Canine

Breed Golden Retriever Sex CM Pet Age Chart# 2Y 094-000424

Superchem		Mahamman Minandish Mikanasa and page 1922 Part		And the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th			
l'este	Results	Ref. Range	Units	Tests	Results	Ref. Range	Units
Total Protein	6.0		g/dL	WBC	-	4.0-15.5	10³/µL
Albumin	3.6		g/dL	RBC		4.8-9.3	10%/µL
<b>alobulin</b>	2.4		g/dL	Hemoglobin		12.1-20,3	g/dL
VG Ratio	1,5		Ratio	Hematocrit		36-60	96
AST (SGOT)	32		U/L	MCV	ļ	58-79	fL.
ALT (SGPT)	31		U/L	MCH		19-28	pg
Nk Phosphatase	24		U/L	MCHC		30-38	g/dL
<b>a</b> GTP	5		U/L	Platelet Count	<b>B6</b>	170-400	103/µL
Fotal Bilirubin	0.3		mg/dL	Platelet EST	DU	Adequate	*
Jrea Nitrogen	15		mg/dL	Differential		%	
Creatinine	1,0		mg/dL	Neutrophils		55 2060-10600	/uL
BUN/Creatinine Ratio	15	DC	Ratio	Bands		0 0-300	/uL
Phosphorus	4.0	<b>B6</b>	mg/dL	Lymphocytes		38 690-4500	/uL
Blucose	82		mg/dL	Monocytes		2 0-840	/uL
Calcium	10.2		mg/dL	Eosinophils		5 0-1200	/uL
/lagnesium	1.5	.	mEq/L	Basophila		0 0-150	/uL
Sodium	146		m <b>E</b> q/L		i	į	
otassium	4.3		mEq/L				
la/K Ratio	34					•	
Chloride	111	1	mEq/L				
Cholesterol	236		mg/dL				
riglycerides	52		mg/dL				
rmylase	443		U/L				
ipase	262		U/L			,	
XPK .	467	L	U/L				
Comment		•				•	
Hemolysis 1+ No sig	nificant interfer	ence.					

Test Requested	Results	Reference Range	Units
TOTAL 74	·:		
T4	B6	0.8-3.5	ug/dL
Note new Canine reference range			
URINALYSIS			
Collection Method	*	·	
Not stated .	,		
Color		2	
Appearance		, *Clear	**
Specific Gravity		1.015~1.050	
pH		5.5-7.0	
Protein		Neg	
Microalbuminuria testing is recomi	ne <b>B6</b> hent is	inactive) to help determine the clinical	I significance of proteinuria.
Glucose	DU	Neg	
Ketone	,	Neg	•
Bilirubin		Neg To 1+	
Blood		Neg	
WBC		0-3	HPF
RBC		0-3	HPF
Page 1	FINAL	For online lab results visit	B6

S = Subjective (complaint/history
O = Objective (exam)
A = Assessment (diagnosis, R/O)
P = Plan (action/C.E.)

## PROGRESS NOTES

Name_ <b>B6</b>	Pet # (	Page (W

DATE SOAP CODE CHARGE

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S = Subject O = Object A ≈ Assess P = Plan (	ctive (complaint/history) ctive (exam) sment (diagnosis, R/O) action/C.E.)	PR				
Name	B6	Pet#(	Pet # ( ) Birthdate <b>B6</b> File #			
DATE	SOAP			CODE CHARGE		
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**B6** Accession Ne B6
Received 10/15/2012
Reported 10/16/2012 02:35 AM

Pet Name В6

**Breed** Golden Retriever Species Canine

Sex CM

Pet Age 1Y **Chart#** 094-0424

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ests	Results	Ref. Range	Units	Teste	Resulte	Ref. Range	Units
otal Protein		5.0-7.4	g/dL	WBC		4.0-15.5	103/WL
Ubumin		2.7-4.4	g/dL	RBC		4.8-9.3	105/UL
Blobulin		1.6-3.6	g/dL	Hemoglobin		12.1-20.3	g/dL
VG Ratio		0.8-2.0	Ratio	Hematocrit		36-60	%
(ST (SGOT)		15-66	U/L	MCV.		58-79	fL
ILT (SGPT)		12-118	U/L	MCH.		19-28	pg
ilk Phosphatase		5-131	U/L	MCHC		30-38	g/dL
GTP .		1-12	U/L	Platelet Count	<b>B6</b>	170-400	103/uL
otal Bilirubin		0.1-0.3	mg/dL	Platelet EST	DU	Adequate	
Irea Nitrogen		6~31	mg/dL	Differential		%	
reatinine		0.5-1.6	mg/dL	Neutrophils		48 2060-10600	/uL
UN/Creatinine Ratio		4-27	Ratio	Bands		0 0-300	/uL
hosphorus	В6	2.5-6.0	mg/dL	Lymphocytes		43 690-4500	/uL
àlu coee	Do	70-138	mg/dL	Monocytes		5 0-840	/uL
Calcium		8.9-11.4	mg/dL	Eosinophile		4 0-1200	ΔL
Corrected Calcium		17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. Tyrian r	Basophils		0 0-150	/uL
/lagnesium		1.5-2.5	mEq/L		L!		
Sodium		139-154	mEq/L				
otassium		3.6-5.5	mEq/L				
la/K Ratio	`		*				
Chloride		102-120	mEq/L				
holesterol		92-324	mg/dL		at the second		
riglycerides		29-291	mg/dL				
mylase		290-1125	U/L		*.		
ipase		77 <del>-6</del> 95	U/L				
PK.		59-895	U/L				
Comment	L				*		
AST may be falsely		o a Hemolyeis 2+ ai	nd could be				
elow the Normal Rang	975			1.			

Test Requested	Results	, .	Reference Range	Unite	
Total T4 T4 Note new Canine reference range	B6		0.8–3.5	ug/dL	
URINALYSIS					
Collection Method Not stated Color Appearance Specific Gravity pH Protein Glucose Ketone Bilirubin Blood WBC RBC Casts Struvite (MgNH4PO4) Crystals Amorphous Phosphate Crystals Bacteria	<b>B</b> 6		*Clear 1.015–1.050 5.5–7.0 Neg Neg Neg Neg To 1+ Neg 0–3 0–3	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
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Page 1	FINAL	For	online lab results visit	В6	

PAGE 2 OF 2

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	<u> Doctor</u>	B6		^		
Test Requested Squamous Epit	halio	Results	***************************************	Reference Ran	ge Units HPF	f.
HEARTWORM ANTIG Occult Heartwo There were no	EN rm Antigen o measurable a ed for 5 to 7 mo	nths following exposur	e heartworm ant re to early larval	igen in this sample. Ac	ner lult Dirofilaria immitis a	ntigens will
Ova & Parasite	ge 3:4 K.S. S. F. The GARRETY, F. R. S.	B6				
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For online lab results visit B6

S = Subjective (complaint/history)
O = Objective (exam)
A = Assessment (diagnosis, R/O)
P = Plan (action/C.E.) **PROGRESS NOTES B6 B6** Name ) Birthdate Page le# **B6** DATE SOAP TURBURE **B6** 

S = Subjective (complaint/history) O = Objective (exam) A = Assessment (diagnosis, R/O) P = Plan (action/C.E.)

## PROGRESS NOTES

**B6 B6** ) Birthdate File# Page Name

CODE CHARGE DATE SOAP

S = Subjective (complaint/history) **PROGRESS NOTES** O = Objective (exam)
A = Assessment (diagnosis, R/O)
P = Plan (action/C.E.) **B6 B6** _) Birthdate Page Name_ DATE SOAP CODE CHARGE **B6** 

S = Subjective (complaint/history) PROGRESS NOTES O = Objective (exam)
A = Assessment (diagnosis, R/O)
P = Plan (action/C.E.) **B6 B6** ) Birthdate Page Name SOAP CODE CHARGE DATE **B6** 

S = Subjective (complaint/histor O = Objective (exam) A = Assessment (diagnosis, R/O) P = Plan (action/C.E.)	y)	PROGRESS NOTES				
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S = Subjective (complaint/history) O = Objective (exam) A = Assessment (diagnosis, R/O) P = Plan (action/C.E.)		PR	PROGRESS NOTES			
Name	В6	Pet # (	) Birthdate <b>B6</b> File #	Page 3		
DATE SO	)AP			CODE CHARGE		
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Client: (26123) Patient Name: **B6** Species: Canine

Gender: Weight: 0.0 lbs Age: 7 Months

Breed:

Doctor:

Test	Results	Reference Interval	LOW	NORMAL	HIGH	
LaserCyte	(July 20, 2011	7:15 AM)				
RBC.		5.50 - 8.50				
HCT		37.0 - 55.0				į
HGB		12.0 - 18.0				
MCV		60.0 ~ 77.0				į
MCH		18.5 - 30.0				
MCHC		30.0 - 37.5				İ
RDW		14.7 - 17.9				
%RETIC		İ			_	
RETIC						į.
WBC		5,50 - 16,90				
%NEU				B		
%LYM	DC					
%MONO	<b>B6</b>	,				
%EOS						
%BASO						
NEU		2.00 ~ 12.00				
LYM		0.50 - 4.90				
MONO		0.30 - 2.00				
EOS		0.10 - 1.49				
BASO		0.00 - 0.10				
PLT		175 - 500				ľ
MPV						2. 7
PDW						
PCT		\ <u>-</u>				
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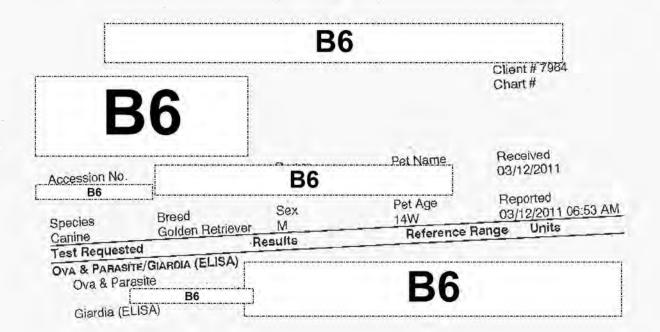
= Assessmer = Plan (actio	(complaint/history) (exam) nt (diagnosis, R/O) nn/C.E.)	PROGRESS NOTES				
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# **B6**

Accession No.	Doctor	Owner	Pet Name	Received
		В6		02/12/2011
Species Canine	Breed	Sex	Pet Age	Reported
Test Request	ad	Results	Reference I	02/12/2011 07:44 AM Range Units
OVA AND PARA	SITES WITH CENTI	RIFUGATION		naarsareen tii Tiin tiin tiin tiin tiin tiin tiin
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02/12/2011 07:44 AM



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