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

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

To: Rotstein, David; 'Reimschuessel, Renate (Renate.Reimschuessel@fda.hhs.gov)'; Ceric, Olgica

CC: Norris, Anne; DeLancey, Siobhan

**Sent:** 4/13/2018 1:06:07 PM

Subject: FYI-FW: Call to discuss DCM cases

I'll keep everyone posted about a time for the meeting.

Jennifer Jones, DVM Veterinary Medical Officer

Tel: 240-402-5421

From:





From: Jones, Jennifer L

Sent: Friday, April 13, 2018 9:05 AM To: 'Darcy Adin' <dbadin@ncsu.edu> Subject: Call to discuss DCM cases

#### Good morning Darcy,

I hope you're well. Are you able to chat more about the DCM cases from dogs eating grain free food that the cardiology community is seeing? I'd like to schedule a call with you and some of your colleagues who are also following the issue. I'd like to gather more information about the clinical findings and your ideas on what could be the cause. Do you have any contacts with Dr. Joshua Stern or other clinical research cardiologists that could provide additional information following this issue? I can include them on the call.

Thank you in advance for your time, and have a great weekend. Jen

#### 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



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

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

To: 'Darcy Adin'

CC: Rotstein, David; Norris, Anne; DeLancey, Siobhan

4/16/2018 1:48:17 PM Sent:

Subject: RE: Call to discuss DCM cases

Yes, I can do 2 pm.

Jennifer Jones, DVM Veterinary Medical Officer

Tel: 240-402-5421





From: Darcy Adin [mailto:dbadin@ncsu.edu] Sent: Monday, April 16, 2018 9:43 AM

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

Cc: Rotstein, David <David.Rotstein@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey,

Siobhan <Siobhan.Delancey@fda.hhs.gov> Subject: Re: Call to discuss DCM cases

Thank you Jennifer. I will reach out to them to ask them to see if they are interested. Would it be possible to meet a bit earlier on thursday (say 2pm?)

Thanks! Darcy

On Mon, Apr 16, 2018 at 8:20 AM, Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov> wrote:

Thank you, Darcy.

Would you be available Thursday at 3pm eastern? If Dr. Freeman or any of the other cardiologists you mentioned below are interested, they can join the call as well.

Jennifer Jones, DVM Veterinary Medical Officer

Tel: 240-402-5421





From: Darcy Adin [mailto:dbadin@ncsu.edu] Sent: Friday, April 13, 2018 12:31 PM

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

Subject: Re: Call to discuss DCM cases

Hi Jennifer,

Definitely! I'd love to chat more. I have not talked with Dr. Stern in a while but I can certainly reach out to him.

**B5**, **B6** 

Dr. Lisa Freeman (nutritionist at Tufts) and indirectly Dr. Ryan Fries at Illinois (he has **B6** 

I am free next week to chat wed-fri. Let me know how you would like to proceed - thank you!

Darcy

On Fri, Apr 13, 2018 at 9:05 AM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u>> wrote: Good morning Darcy,

I hope you're well. Are you able to chat more about the DCM cases from dogs eating grain free food that the cardiology community is seeing? I'd like to schedule a call with you and some of your colleagues who are also following the issue. I'd like to gather more information about the clinical findings and your ideas on what could be the cause. Do you have any contacts with Dr. Joshua Stern or other clinical research cardiologists that could provide additional information following this issue? I can include them on the call.

Thank you in advance for your time, and have a great weekend. Jen

#### 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



--

Darcy B. Adin, DVM, DACVIM (Cardiology) Clinical Assistant Professor of Cardiology North Carolina State University NC State Veterinary Hospital 1060 William Moore Drive Raleigh, NC 27607 919-513-6032

--

Darcy B. Adin, DVM, DACVIM (Cardiology) Clinical Assistant Professor of Cardiology North Carolina State University NC State Veterinary Hospital 1060 William Moore Drive Raleigh, NC 27607 919-513-6032

From: To: Sent:	Darcy Adin <dbadin@ncsu.edu> Jones, Jennifer L 4/18/2018 10:58:16 AM</dbadin@ncsu.edu>					
Subject:	Re: hold-call with Dr. Adin re: DCM cases					
Great! I will poll t	Great! I will poll the group and got back to you					
On Apr 18, 2018,	at 6:46 AM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> > wrote:					
_	food morning Darcy, Friday works best for the group, we can be available between 11 to 3pm eastern. en					
Jennifer Jones, DVM Veterinary Medical O Tel: 240-402-5421 <image001.png></image001.png>	fficer					
Sent: Tuesday, Apr To: Jones, Jennifer	[mailto:dbadin@ncsu.edu] il 17, 2018 5:18 PM L < Jennifer.Jones@fda.hhs.gov> call with Dr. Adin re: DCM cases					
<b>B6</b> is f	ree friday as well. If this works for you then I'll poll the others!					
On Tue, Apr 17, 2 I will!	2018 at 5:16 PM, Darcy Adin < <u>dbadin@ncsu.edu</u> > wrote:					
going to be a time earlier on thursday	haven't heard from her but Drs. Freeman and <b>B6</b> can't easily do thursday afternoon. I'm sure there is not going to be a time that is good for everyone but I would love for her to participate. She would be available earlier on thursday (before 11) but not sure if that will work for Dr. Stern on the west coast (I can ask if this is good for you) or friday except over lunch.					
Would either of the Take care Darcy	ese options work for your team?					
Thank you, Darcy	2018 at 8:47 AM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> > wrote: 2018 at 8:47 AM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> > wrote: 2018 at 8:47 AM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> > wrote: 2018 at 8:47 AM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> > wrote: 2018 at 8:47 AM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> > wrote: 2019 at 8:47 AM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> > wrote: 2019 at 8:47 AM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> > wrote: 2019 at 8:47 AM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> > wrote: 2019 at 8:47 AM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> > wrote: 2019 at 8:47 AM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> > wrote: 2019 at 8:47 AM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> > wrote: 2019 at 8:47 AM, Jones					
Jennifer Jones, DVM Veterinary Medical O Tel: 240-402-5421						
Sent: Tuesday, Ap To: Jones, Jennife	n [mailto:dbadin@ncsu.edu]  oril 17, 2018 8:38 AM  or L < <u>Jennifer.Jones@fda.hhs.gov</u> > -call with Dr. Adin re: DCM cases					

,		this on to Drs. Freeman (nutritionist at Tut	
and	B5, B6	I am still waiting to hear back from	B5, B6
and	B5, B6		
Take care			
Darcy			
On Apr 17, 2	018, at 7:53 AM, Jone	s, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u>	<u>r</u> ≥ wrote:
Do not delete	or change any of the follow	ving text	
Join WebEx	x meeting		
Meeting number	r (access code) <b>B6</b>		
Meeting passwo	ord: B6		
Join by pho	ne		
DC	US Toll		
<b>B6</b>	US Toll Free		
Global call-in m	umbers   Toll-free calling	restrictions	
Can't join the m	eeting?		
If you are a host	t, go here to view host info	rmation.	
IMPORTANT NOTIC	CE: Please note that this WebEx ser	vice allows audio and other information sent during the session to b	e recorded, which may be discoverable in a legal matter.
By joining this session	on, you automatically consent to suc	h recordings. If you do not consent to being recorded, discuss your	concerns with the host or do not join the session.
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Darcy B Adi	n, DVM, DACVIM (0	Cardiology)	
•	stant Professor of Card	95 /	

Darcy B. Adin, DVM, DACVIM (Cardiology Clinical Assistant Professor of Cardiology North Carolina State University NC State Veterinary Hospital 1060 William Moore Drive Raleigh, NC 27607 919-513-6032

\_\_

Darcy B. Adin, DVM, DACVIM (Cardiology) Clinical Assistant Professor of Cardiology North Carolina State University NC State Veterinary Hospital 1060 William Moore Drive Raleigh, NC 27607 919-513-6032 From:

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

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

To:

'Darcy Adin'; 'Freeman, Lisa'; 'Joshua A Stern'; 'Fries, Ryan C';

B6

CC: Rotstein, David; Norris, Anne; DeLancey, Siobhan; Ceric, Olgica

**Sent:** 4/20/2018 7:50:20 PM

Subject: RE: hold-call with Dr. Adin re: DCM cases

Importance: High

My apologies for the repeat email. After further internal discussion, in lieu of submitting you can just email me a spreadsheet with the data.

**B5** 

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





From: Jones, Jennifer L

**Sent:** Friday, April 20, 2018 1:19 PM

To: 'Darcy Adin' <dbadin@ncsu.edu>; Freeman, Lisa <lisa.freeman@tufts.edu>; Joshua A Stern

<jstern@ucdavis.edu>; Fries, Ryan C <rfries@illinois.edu>;
B6

**B6** 

**Cc:** Rotstein, David <David.Rotstein@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey,

Siobhan <Siobhan.Delancey@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>

Subject: RE: hold-call with Dr. Adin re: DCM cases

Thank you again for joining us on the call and providing the information about your cases. To help us catalogue and potentially act on these adverse events **B5** 

**B**5

In the meantime, if you have a dog with DCM on a grain free diet that dies or is euthanized, please do not dispose of the animal's body or any remaining food. Please submit an individual consumer complaint for that dog, and mention that you have been instructed to submit the report by Vet-LIRN. We will review the complaint for potential follow-up and may be able to offer a necropsy. I attached a copy of our Vet-LIRN network procedures that describe how we operate. I also included a version for animal owners.

Please email or call me with any questions. Thank you again for your time and expertise, Jen

Jennifer Jones, DVM Veterinary Medical Officer

Tel: 240-402-5421





From: Darcy Adin [mailto:dbadin@ncsu.edu]
Sent: Thursday, April 19, 2018 11:00 AM

**To:** Freeman, Lisa <<u>lisa.freeman@tufts.edu</u>>; Joshua A Stern <<u>jstern@ucdavis.edu</u>>; Fries, Ryan C

<<u>rfries@illinois.edu</u>>;

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

Cc: Rotstein, David < <u>David.Rotstein@fda.hhs.gov</u>>; Norris, Anne < <u>Anne.Norris@fda.hhs.gov</u>>; DeLancey,

Siobhan <Siobhan.Delancey@fda.hhs.gov>

Subject: Fwd: hold-call with Dr. Adin re: DCM cases			
Dear Dr. Jones,			
We are all able to meet tomorrow, Friday April 20th at 11 am EST to discuss our clinical observations and concerns surrounding a potential relationship between grain-free canine diets and Dilated Cardiomyopathy.			
Drs. <b>B6</b> Freema <b>B6</b> Fries and Stern - the call details are in the forwarded email below.			
Just a brief introduction for the FDA group:			
B6 Dr. Lisa Freeman is a Professor of Clinical Nutrition at Tufts University, College of Vet Med			
Dr. Lisa Freeman is a Professor of Clinical Nutrition at Tufts University, College of Vet Med			
<b>B6</b>			
Dr. Ryan Fries is a Clinical Assistant Professor of Cardiology at Illinois, College of Vet Med Dr. Josh Stern is an Associate Professor of Cardiology at UC Davis, College of Vet Med			
Thank you everyone for making time in your schedule! I am looking forward to this.			
Sincerely, Darcy Adin			
Forwarded message From: Jones, Jennifer L < Jennifer.Jones@fda.hhs.gov > Date: Thu, Apr 19, 2018 at 7:16 AM Subject: hold-call with Dr. Adin re: DCM cases To: "Rotstein, David" < David.Rotstein@fda.hhs.gov >, "Norris, Anne" < Anne.Norris@fda.hhs.gov >, "DeLancey, Siobhan" < Siobhan.Delancey@fda.hhs.gov >, Darcy Adin < dbadin@ncsu.edu >			
Do not delete or change any of the following text			
Join WebEx meeting  Meeting number (access code): B6  Meeting password B6			
Join by phone  B6  JS Toll  JS Toll Free  Global call-in numbers   Toll-free calling restrictions  Can't join the meeting?			
If you are a host, go here to view host information			

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--

Darcy B. Adin, DVM, DACVIM (Cardiology) Clinical Assistant Professor of Cardiology North Carolina State University NC State Veterinary Hospital 1060 William Moore Drive Raleigh, NC 27607 919-513-6032

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

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

'Freeman, Lisa' To:

4/23/2018 7:22:37 PM Sent:

RE: hold-call with Dr. Adin re: DCM cases Subject:

Thank you, Lisa.

Jennifer Jones, DVM Veterinary Medical Officer

Tel: 240-402-5421 🕰 U.S. FOOD & DRUG



From: Freeman, Lisa [mailto:Lisa.Freeman@tufts.edu]

Sent: Monday, April 23, 2018 8:37 AM

To: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov> Subject: RE: hold-call with Dr. Adin re: DCM cases

Dear Jennifer



Please let me know if you need additional info Thanks for your work on this issue. Lisa

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

From: Jones, Jennifer L [mailto:Jennifer.Jones@fda.hhs.gov]

Sent: Friday, April 20, 2018 3:50 PM

To: Darcy Adin <a href="mailto:dbadin@ncsu.edu">dbadin@ncsu.edu</a>; Freeman, Lisa <a href="mailto:Lisa.Freeman@tufts.edu">Lisa.Freeman@tufts.edu</a>; Joshua A Stern

<<u>istern@ucdavis.edu</u>>; Fries, Ryan C <<u>rfries@illinois.edu</u>>;

Cc: Rotstein, David <<u>David.Rotstein@fda.hhs.gov</u>>; Norris, Anne <<u>Anne.Norris@fda.hhs.gov</u>>; DeLancey,

Siobhan <Siobhan.Delancey@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>

Subject: RE: hold-call with Dr. Adin re: DCM cases

Importance: High

**B5** My apologies for the repeat email. After further internal discussion, in lieu of submittin you can just email me a spreadsheet with the data.

Jennifer Jones, DVM Veterinary Medical Officer Tel: 240-402-5421 PA U.S. FOOD & DRUG From: Jones, Jennifer L Sent: Friday, April 20, 2018 1:19 PM **To:** 'Darcy Adin' <<u>dbadin@ncsu.edu</u>>; Freeman, Lisa <<u>lisa.freeman@tufts.edu</u>>; Joshua A Stern <jstern@ucdavis.edu>; Fries, Ryan C <rfries@illinois.edu>; Cc: Rotstein, David <<u>David.Rotstein@fda.hhs.gov</u>>; Norris, Anne <<u>Anne.Norris@fda.hhs.gov</u>>; DeLancey, Siobhan < Siobhan. Delancey@fda.hhs.gov >; Ceric, Olgica < Olgica. Ceric@fda.hhs.gov > Subject: RE: hold-call with Dr. Adin re: DCM cases Thank you again for joining us on the call and providing the information about your cases. To help us catalogue and potentially act on these adverse events, **B5** In the meantime, if you have a dog with DCM on a grain free diet that dies or is euthanized, please do not dispose of the animal's body or any remaining food. Please submit an individual consumer complaint for that dog, and mention that you have been instructed to submit the report by Vet-LIRN. We will review the complaint for potential follow-up and may be able to offer a necropsy. I attached a copy of our Vet-LIRN network procedures that describe how we operate. I also included a version for animal owners. Please email or call me with any questions. Thank you again for your time and expertise, Jen Jennifer Jones, DVM Veterinary Medical Officer Tel: 240-402-5421 ZA U.S. FOOD & DRUG From: Darcy Adin [mailto:dbadin@ncsu.edu] Sent: Thursday, April 19, 2018 11:00 AM To: Freeman, Lisa < lisa.freeman@tufts.edu>; Joshua A Stern < jstern@ucdavis.edu>; Fries, Rvan C <rfries@illinois.edu>; Jones, Jennifer L <<u>Jennifer.Jones@fda.hhs.gov</u>> Cc: Rotstein, David <David.Rotstein@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov> Subject: Fwd: hold-call with Dr. Adin re: DCM cases Dear Dr. Jones. We are all able to meet tomorrow, Friday April 20th at 11 am EST to discuss our clinical observations and concerns surrounding a potential relationship between grain-free canine diets and Dilated Cardiomyopathy. Fries and Stern - the call details are in the forwarded email below. **B6** Freeman. Just a brief introduction for the FDA group:

<b>B6</b>	
Dr. Ryan Fries is a Clinical Assistant Professor of Cardiology at Illinois, College of Vet Med Dr. Josh Stern is an Associate Professor of Cardiology at UC Davis, College of Vet Med	
Thank you everyone for making time in your schedule! I am looking forward to this.	
Sincerely, Darcy Adin	
	"DeLancey,
Do not delete or change any of the following text	
Join WebEx meeting  Meeting number (access code <b>B6</b> Meeting password <b>B6</b>	
Join by phone  US Toll  US Toll Free  Global call-in numbers   Toll-free calling restrictions	
Can't join the meeting?	
If you are a host, <u>go here</u> to view host information.	
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Darcy B. Adin, DVM, DACVIM (Cardiology) Clinical Assistant Professor of Cardiology North Carolina State University NC State Veterinary Hospital 1060 William Moore Drive Raleigh, NC 27607 919-513-6032

From: To: CC: Sent: Subject:	Darcy Adin <dbadin@ncsu.edu> Jones, Jennifer L Freeman, Lisa; Joshua A Stern; B6 Rotstein, David 8/16/2018 12:49:22 PM Re: a few NCSU cases</dbadin@ncsu.edu>
Thanks Jennifer!	
On Thu, Aug 16, 2018	at 8:13 AM, Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> > wrote:
Good morning everyon	e,
Here's our Vet-LIRN ra	pid necropsy document.
Take care,	
Jen	
Jennifer Jones, DVM	
Veterinary Medical Officer	
Tel: 240-402-5421	
DA U.S. FOOD & DRUG	- New York Control of the Control of
From: Jones, Jennifer I Sent: Wednesday, Augu To: 'Freeman, Lisa' < <u>Li</u>	
<b>Cc:</b> Joshua A Stern < <u>js</u> r <b>Subject:</b> RE: a few NC	tern@ucdavis.edu> B6 SU cases
Thank you, Darcy! We'	ll be on the lookout for the cases.

Jennifer Jones, DVM

Veterinary Medical Officer

Tel: 240-402-5421





From: Freeman, Lisa [mailto:Lisa.Freeman@tufts.edu]
Sent: Wednesday, August 15, 2018 8:50 AM
<b>To:</b> Darcy Adin < <u>dbadin@ncsu.edu</u> >; Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> >
Cc: Joshua A Stern < <u>jstern@ucdavis.edu</u> >; <b>B6</b>
Subject: RE: a few NCSU cases
That's really interesting, Darcy!
I wonder B5
I wonder B5
Thanks for sharing
Lisa
From: Darcy Adin < dbadin@ncsu.edu >
Sent: Tuesday, August 14, 2018 8:00 PM
To: Jones, Jennifer L < Jennifer.Jones@fda.hhs.gov>
Cc: Freeman, Lisa <a href="mailto:sis-edu">! B6</a> B6
Subject: a few NCSU coses
Subject: a few NCSU cases
Hi Jennifer,
I wanted to follow up on the case where NCSU sent you necropsy samples B6 3 yr Fs Great Dane)
I've attached her whole blood and plasma taurine concentrations for your records, which were normal.
One of my residents saw a littermate pair of Dobermans back for their 3 month recheck after being diagnosed
with DCM while eating Acana. Taurines were normal on these dogs back in April and I honestly didn't have
ton of hope for these dogs B6 because they were dobermans and their genetic tests were
abnormal (the female is homozygous positive for one mutation and negative for a 2nd, the male was heterozygous positive for one mutation and negative for a 2nd). But, 3 months after a diet change to Purina
grain-based (and no taurine supplementation), they both have shown significant improvement (the less severe
affected female has near normalized and the severely affected male (who was in heart failure) has also
significantly improved.
I have asked our resident to report these dogs to the FDA using the portal B6 so
hopefully you will see these soon. She will also be submitting a taurine deficient Golden eating Acana <b>B6</b>
maybe the lowest Tye ever seen)

Thank you!

Darcy

--

Darcy B. Adin, DVM, DACVIM (Cardiology)

Clinical Assistant Professor of Cardiology

North Carolina State University

NC State Veterinary Hospital

1060 William Moore Drive

Raleigh, NC 27607

919-513-6032

--

Darcy B. Adin, DVM, DACVIM (Cardiology) Clinical Assistant Professor of Cardiology North Carolina State University NC State Veterinary Hospital 1060 William Moore Drive Raleigh, NC 27607 919-513-6032

From:	Freeman, Lisa <lisa.freeman@tuff< th=""><th>ts edu&gt;</th><th></th></lisa.freeman@tuff<>	ts edu>	
To:	Jones, Jennifer L; Darcy Adin	o.ouu-	
CC:	Joshua A Stern; B6 Ro	tstein David	
Sent:	8/16/2018 6:17:49 PM	,	
Subject:	RE: a few NCSU cases		
•			
Hi Jen			
	B5	Just want to be sure we ge	et what you're
looking for:		!	
We appreciate your pu	utting this together. This will be hel	pful	
Thanks			
Lisa			
Fram. lanca lancifor	the langifur lange Ofde blacks		
Sent: Thursday, Augu	· L <jennifer.jones@fda.hhs.gov> ct 16, 2018 8:13 AM</jennifer.jones@fda.hhs.gov>		
	st_lo, 2010 6.13 Aivi sa.freeman@tufts.edu>; Darcy Adi	in <dhadin@ncsu.edu></dhadin@ncsu.edu>	
Co: Joshua A Stern <i< td=""><td>stern@ucdavis.edu&gt;; Daicy Adi</td><td>B6</td><td>Rotstein, David</td></i<>	stern@ucdavis.edu>; Daicy Adi	B6	Rotstein, David
<pre><david.rotstein@fda.< pre=""></david.rotstein@fda.<></pre>			_irtotatem, David
Subject: RE: a few No	•		
Good morning everyor	ne,		
Here's our Vet-LIRN ra	apid necropsy document.		
Take care,			
Jen			
Landing Land BY (M			
Jennifer Jones, DVM	or.		
Veterinary Medical Office Tel: 240-402-5421	<del>2</del> 1		
FDA U.S. FOOD & DRUG			
From: Jones, Jennifer	·L		
	gust 15, 2018 2:49 PM		
	; Darcy A	Adin < <u>dbadin@ncsu.edu</u> >	
Cc: Joshua A Stern <		B6	
Subject: RE: a few No	CSU cases		
Thank you, Darcy! We	I'll be on the lookout for the cases.		
Jennifer Jones, DVM			
Veterinary Medical Office	er		
Tel: 240-402-5421			
INAUS FOOD & DRUG			
DA U.S. FOOD & DRUG			
	[mailto:Lisa.Freeman@tufts.edu]		
•	gust 15, 2018 8:50 AM		
	in@ncsu.edu>; Jones, Jennifer L		٦
	stern@ucdavis.edu>;	В6	_j
Subject: RE: a few No	USU cases		
That's really interesting	a. Darcv!		
I wonder	<u> </u>	35	
Thanks for sharing			•
Lisa			

From: Darcy Adin <dbadin@ncsu.edu> Sent: Tuesday, August 14, 2018 8:00 PM To: Jones, Jennifer L &lt;<u>Jennifer.Jones@fda.hhs.gov</u>&gt; Cc: Freeman, Lisa &lt;<u>lisa.freeman@tufts.edu</u>&gt;; Joshua A Stern &lt;<u>jstern@ucdavis.edu</u>&gt;; B6 Subject: a few NCSU cases</dbadin@ncsu.edu>
Hi Jennifer,
I wanted to follow up on the case where NCSU sent you necropsy samples 3 yr Fs Great Dane). I've attached her whole blood and plasma taurine concentrations for your records, which were normal.
One of my residents saw a littermate pair of Dobermans back for their 3 month recheck after being diagnosed with DCM while eating Acana. Taurines were normal on these dogs back in April and I honestly didn't have a ton of hope for these dogs. B6 because they were dobermans and their genetic tests were abnormal (the female is homozygous positive for one mutation and negative for a 2nd, the male was heterozygous positive for one mutation and negative for a 2nd). But, 3 months after a diet change to Purina grain-based (and no taurine supplementation), they both have shown significant improvement (the less severely affected female has near normalized and the severely affected male (who was in heart failure) has also significantly improved.
I have asked our resident to report these dogs to the FDA using the portal B6 hopefully you will see these soon. She will also be submitting a taurine deficient Golden eating Acana B6 maybe the lowest I've ever seen).
Thank you! Darcy
Darcy B. Adin, DVM, DACVIM (Cardiology) Clinical Assistant Professor of Cardiology North Carolina State University

Darcy B. Adin, DVM, DACVIM (Cardiology Clinical Assistant Professor of Cardiology North Carolina State University NC State Veterinary Hospital 1060 William Moore Drive Raleigh, NC 27607 919-513-6032 Report Date

JUL-11-17 03:56 PM

# NCSU, COLLEGE OF VETERINARY MEDICINE ANATOMIC PATHOLOGY LABORATORY

Page 1 of 3

http://www.cvm.ncsu.edu/dphp/labs/histologylab.htm Room C-310 1060 William Moore Drive RALEIGH, NC 27607

Phone #: 919-513-6390 Fax #: 919-513-6703

Owner:	<b>B6</b>	Accession Number: B6 Reference Number: Case Coordinator: B6
<u>.</u>	<u>j</u>	Received: B6 Finalized: B6 Sampled:
To:	B6	
		Phone # <b>B6</b>

**Addended Report** 

#### **ANATOMIC PATHOLOGY RESULTS**

ANIMAL ID	B6
REF CASE NO	212267
SPECIES	Canine
BREED	Schnauzer
SEX	Mc
AGE	3y
SPECIMEN DESC	Body
GROSS	An 8.2 kg, 2.5-year-old, castrated male miniature schnauzer dog is presented for postmortem examination. The animal was euthanized and the body is in fair postmortem condition with a euthanasia?to?necropsy interval of approximately 16 hours.  B6  B6
	<b>B6</b>
	B6 The heart is subjectively enlarged. B6

**Report Date** JUL-11-17 03:56 PM

Addended Report

### NCSU, COLLEGE OF VETERINARY MEDICINE ANATOMIC PATHOLOGY LABORATORY

Page 2 of 3

http://www.cvm.ncsu.edu/dphp/labs/histologylab.htm Room C-310 1060 William Moore Drive RALEIGH, NC 27607 Fax #: 919-513-6703

Phone #: 919-513-6390

**Accession Number:** 

**B6** 

#### **ANATOMIC PATHOLOGY RESULTS**

**GROSS DIAGNOSIS** 

B6

2. Heart: mild cardiomegaly with mild mitral valve endocardiosis and mild left ventricular hypertrophy and left atrial dilation

**REPORT STATUS** COMMENTS

PRELIMINARY REPORT-HISTOLOGY PENDING

Except for gross evidence of moderate to marked pulmonary edema and mild cardiac changes, gross examination is otherwise mostly unremarkable. The heart is mildly enlarged with mild mitral valve endocardiosis and associated mild left atrial dilation and left ventricular hypertrophy. This mild degree of cardiac changes does not fit well with the moderate to severe degree of pulmonary edema present. In addition to the mild structural changes, a functional cardiac abnormality may have been contributing to clinical disease in this patient. Samples of lung and heart were rushed and examined histologically. In addition to the pulmonary edema, there is also histologic evidence of diffuse, acute alveolar injury. These pulmonary changes can explain this patient's signs of respiratory distress. However, the heart is histologically unremarkable and the skeletal muscle was grossly unremarkable; as such, a cause for the markedly elevated CK is not yet identified. Histology of skeletal muscle is pending.

**PATH RESIDENT SENIOR PATH** DATE

**Final Necropsy Report MICROSCOPIC** 

Report Date
JUL-11-17 03:56 PM

## NCSU, COLLEGE OF VETERINARY MEDICINE ANATOMIC PATHOLOGY LABORATORY

Page 3 of 3

http://www.cvm.ncsu.edu/dphp/labs/histologylab.htm Room C-310 1060 William Moore Drive RALEIGH, NC 27607

Phone #: 919-513-6390 Fax #: 919-513-6703

**Addended Report** 

SENIOR PATH FINALIZED DATE

Accession Number:

ANATOMIC PATHOLOGY F	<u>KESULTS</u>	
	B6	
	3), Stomach (slide 4), Small ir	le (slide 3), Kidneys (slide 3), Spleen (slide htestine (slide 4), Colon (slide 4), Pancreas
	(slide 4), Adrenal gland (slide	B6
FINAL DIAGNOSIS		<b>B6</b>
	Heart: mild cardiomegaly w left ventricular hypertrophy an	ith mild mitral valve endocardiosis and mild d left atrial dilation B6
COMMENTS	Histology reveals	В6
		<b>B6</b>
PATH RESIDENT	DC	

# NECROPSY REPORT FINAL REPORT

Animal ID: EON-361684

Accession Number: B6

Species: Canine Date: (DON)

Sex, Age Class: UNK, Mature

Body Condition: Good

Condition at Investigation: Alive, Euthanized

Carcass Disposition/Post-Mortem Interval: ~5 minutes

#### **ANCILLARY FINDINGS**

Test	Test Sample	Result	Comment

#### TISSUES/SAMPLES RECEIVED

On 1 November 2018, cardiac measurements and sampling was conducted. Representative sections were placed in Cassettes #1-16. In addition, non-cardiac tissues were received, and representative sections were placed in Cassettes A-F. Received 7 February 2019 are 22 H&E slides. Letters or numbers in parentheses correspond to the slide number.

#### MICROSCOPIC DESCRIPTION

Tissue Preservation: Good

Respiratory System

**B6** 

Hematolymphatic System

Hepatobiliary System
<b>B6</b>
Integumentary System/Musculoskeletal System:
<b>B6</b>
<u>Urogenital System:</u>
<b>B6</b>
Digestive System:
B6
Cardiovascular System:
<b>B6</b>

**B6** 

B6

Endocrine System:

B6

Sensory System:

Body as a Whole:

Tissues with No Significant Histologic Findings:

B6

MORPHOLOGICAL DIAGNOSES

Respiratory System

### FINAL DIAGNOSES/INTERPRETATIVE SUMMARY

Diagnosis
Cardiomyopathy
Hepatic Chronic Passive Congestion
Interstitial Nephritis, Mlld

Linked Cases: NA

Grossly, there was remarkable biventricular dilation and left atrial dilation. There was flattening of the ventricular endocardial surface as well as left atrioventricular valvular endocardiosis. Histopathologic finding were remarkable and including atrophy, degeneration, interstitial edema, inflammation, and fibrosis. These findings are consistent with a cardiomyopathy, specifically, a dilated cardiomyopathy. Though there was fatty infiltration in the right ventricle, the overall pattern of wavy fibers and degeneration are most aligned with an "attenuated wavy fiber" type of DCM.<sup>1</sup> Adin et al. (2019) proposed echocardiographic phenotypical differences based on diet type.<sup>2</sup> The role of taurine, diet, and breed are under continual and current investigation.

#### RECOMMENDED TESTS

DIIDDAGE	QITE	

DATE:	REPORTING PATHOLOGIST:	
3/1/2019	David S. Rotstein, DVM, MPVM, DACVP	

-

<sup>&</sup>lt;sup>1</sup> Tidholm A and Jonsson L. 2005. Vet Pathol 42: 1-8.

<sup>&</sup>lt;sup>2</sup> Adin D et al. 2019. J Vet Cardiol Feb;21:1-9. doi: 10.1016/j.jvc.2018.11.002. Epub 2018 Dec 5.

### FIGURES

No Figures

# NECROPSY REPORT FINAL REPORT

	Animal ID: EON-362158
	Accession Number: B6
	Species: Canine
	Date: B6 (DON)
	Sex, Age Class: M, Adult
	Body Condition: Good
	Condition at Investigation: Alive, Euthanized
ı	Carcase Disposition/Post-Mortem Interval: ~5 minutes

#### GROSS FINDINGS/HISTORICAL FINDINGS

- DILATED CARDIOMYOPATHY (chronic congestive heart failure); heart 1.9% BW
- ABDOMINAL EFFUSION (MILD)
- GASTRITIS
- HEPATIC FIBRINOUS CAPSULITIS
- SPLENIC SIDEROCALCIFIC PLAQUES
- ABDOMINAL EFFUSION (~30.0 ML)
- UNDERWEIGHT (cachexia)

### **ANCILLARY FINDINGS**

Test	Test Sample	Result	Comment

#### TISSUES/SAMPLES RECEIVED

On 30 November 2018, cardiac measurements and sampling was conducted. Representative sections were placed in Cassettes #1-17 In addition, non-cardiac tissues were received, and representative sections were placed in Cassettes A-F. Received 7 February 2019 are 23 H&E slides. Letters or numbers in parentheses correspond to the slide number.

MICROSCOPIC DESCRIPTION	
Tissue Preservation: Good	
Respiratory System	
B6	

-2-**B6** EON-362158 **B6** Hematolymphatic System **B6** Hepatobiliary System **B6** Integumentary System/Musculoskeletal System: **B6** <u> Urogenital System:</u> **B6 Digestive System: B6** Cardiovascular System:

Other:	
<b>B6</b>	
Nervous System:	
B6	
Endocrine System:	,
<b>B6</b>	
Sensory System:	
<b>B6</b>	
Body as a Whole:	i
Tissues with No Significant Histologic Findings: B6	

MORPHOLOGICAL DIAGNOSES
Respiratory System
<b>B6</b>
Hematolymphatic System .
<b>B6</b>
t Hepatobiliary System
B6
Nervous System:
B6
Integumentary System/Musculoskeletal System:
<b>B6</b>
<u>Urogenital System:</u>
<b>B6</b>
Endocrine System:
<b>B6</b>
Digestive System:
<b>B6</b>
Cardiovascular System:
<ul> <li>A. Heart         <ul> <li>a. Cardiomyocyte attenuation (atrophy), multifocal, mild to moderate with Anitschkow cells, fibrosis, interstitial edema, cardiomyocyte degeneration, and perinuclear ceroid-lipofuscinosis ("wear and tear" pigment).</li> <li>b. Mitral, Tricuspid, and Pulmonic Valves: Endocardiosis, mild to moderate.</li> </ul> </li> </ul>
Sensory System:
B6
Body Cavity
FINAL DIAGNOSES/INTERPRETATIVE SUMMARY
Diagnosis
Cardiomyopathy

Pulmonary Edema
Chronic Passive Congestion

Linked Cases: NA

Grossly, there was dilation of the heart along with hepatic changes consistent with right sided heart failure. There was atrophy of myofibers in all heart sections. The left was more severely affected. These findings are consistent with a cardiomyopathy, specifically, a dilated cardiomyopathy. The presence of wavy fibers is most consistent with an "attenuated wavy fiber" type of DCM.¹ There was hepatic centrilobular hepatocellular atrophy and degeneration along with centrilobular venular fibrosis consistent with chronic passive congestion further supporting the cardiac disease. Similarly, there was pulmonary edema with heart failure cells (hemosiderin-laden macrophages). Adin et al. (2019) proposed echocardiographic phenotypical differences based on diet type.² The role of taurine, diet, and breed are under continual and current investigation.

The splenic siderocalcific plaque is an age-related incidental finding and indicates a site of capsular/subcapsular hemorrhage. In the stomach, gastric vessels were congested. There was no inflammation, helical bacteria, or mucosal changes that would support a gastritis.

#### RECOMMENDED TESTS

TEST	PURPOSE	SITE	RESULT

DATE:	REPORTING PATHOLOGIST:	
3/15/2019	David S. Rotstein, DVM, MPVM, DACVP	

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<sup>&</sup>lt;sup>1</sup> Tidholm A and Jonsson L. 2005. Vet Pathol 42: 1-8.

<sup>&</sup>lt;sup>2</sup> Adin D et al. 2019. J Vet Cardiol Feb;21:1-9. doi: 10.1016/j.jvc.2018.11.002. Epub 2018 Dec 5.

-6-

B6

FIGURES

See PowerPoint

Report Details - EON-	366756			
ICSR:	2055325			
Type Of Submission:	Initial			
Report Version:	FPSR.FDA.PETF.V.V1			
Type Of Report:	Adverse Event (a symptom,	reaction or disease	associated with the product)	
Reporting Type:	Adverse Event (a symptom, reaction or disease associated with the product)  Voluntary			
Report Submission Date:				
Reporter is the Animal	Yes			
Owner: Reported Problem:	<u> </u>	from a reputable breeder. She was fed Purina ProPlan for Puppies from birth early 2013. In early 2013 <b>B6</b> was diagnosed with an impacted anal gland that ruptured and the vet recommended she be fed grain-free dog food. At that time, I began feeding Fromm's Beef Firtitta Grain Free. In late 2016 <b>B6</b> egan to experience steady diarrhea. After much vet intervention including a 2 night stay a vet hospital on IV, I change <b>B6</b> from Fromm's to a short transition time on ground beef w/rice and then to a fresh dog food, The Farmer's Dog Beef with Lentils. Her diarrhea completed cleared and she remained on The Farmer's Dog Beef with Lentils until I begin reading about the issue with Low Taurine in Golden Retrievers. Based on UC Davis and Dr Stern studies, I obtained a blood sample for testing. UC Davis completed the test and her taurine level is low at 1.86 while the level for a Golden Retriever is 1.86 I had an echocardiogram done yesterday, Sept 24, 2018. The canine cardiologist evaluation is as follows: "Mild /early dilated cardiomyopathy-suspect taurine responsive. Trace mitral valve regurgitation. Normal left atrial dimensions. High normal left ventricular dimensions with moderately decreased heart muscle function. Normal right heart size. History of eating a grain-free diet. Low taurine." "No medications are indicated at this time. Begin Taurine 1000 mg twice daily. In two weeks, begin L-carnitine 1850 mg three times daily. In four weeks, begin fish oil supplements (omega-3 fatty acids) at approximately EPA 1500 mg and DHA 925 mg total per day. Change diet from grain free, legume foods. Cardiologist recommends follow up in 6 months.		
	Problem Description:			
	Date Problem Started:	09/24/2018		
	Concurrent Medical Problem:	\$1		
	Pre Existing Conditions:	ons: Occasional urinary tract infection due to small, hooded vulva.		
	Outcome to Date:			
Product Information:	Product Name:	The Farmer's Dog Beef Recipe		
	Product Type:			
	Lot Number:			
	Package Type:			
	Package Size:			
	Purchase Date:			
	Possess Unopened Product:	Yes		
	Possess Opened Product:			
	Storage Conditions:	s: Frozen and refrigerate		
	Product Use	Description:	Fed twice a day adding green beans	
	Information:	First Exposure Date:	09/13/2018	
		Last Exposure Date:		
		Time Interval between Product Use and Adverse		
		Event:		

	4	1	773	
		Stopped After the Onset of the		
		Adverse Event:		
			Probably related	
		Relatedness to		
		Adverse Event:		
		Other Foods or	Yes	
		Products Given to the Animal		
		During This Time	V2	
		Period:		
	Manufacturer			
	/Distributor Information:			
	Purchase Location Information:	Name:	On line purchase with manufacturer	
	miormauon;	Address:	United States	
	Product Name:	Fromms Four Star C	Grain Free Beef Frittata Veg Dry Dog Food	
	Product Type:		, ,	
	Lot Number:			
	Package Type:			
	Package Size:	7		
	Purchase Date:			
	Number Purchased:			
	Possess Unopened	7		
	Product:	et: d No		
	Possess Opened Product:			
	Product Use	Description:	Fed twice daily morning / night	
	Information:	First Exposure		
		Date:	0 1/20/2010	
		Time Interval	4 Years	
		between Product		
		Use and Adverse Event:		
		Product Use	7	
		Stopped After the	103	
		Onset of the		
		Adverse Event:		
		Adverse Event Abate After		
		Product Stop:	07	
		Product Use	<u></u>	
		Started Again:		
			Probably related	
		Relatedness to Adverse Event:		
		Other Foods or		
		Products Given	165	
		to the Animal		
		During This Time Period:		
	,, ,	renod:		
	Manufacturer /Distributor Information:	***************************************	Property	
	Purchase Location	Name:	Various enociality not food store	
	Information:		Various speciality pet food store	
	 	Address.	United States	
Animal Information:	Name:	В6		
		<u>}</u>		

	Type Of Species:	Dog			
		Retriever - Golden			
	Gender:	Female			
	Reproductive Status:	Neutered			
	Weight:	79 Pound			
	Age	B6 Years			
	Assessment of Prior Health:	Excellent			
	Number of Animals Given the Product:	1			
	Number of Animals Reacted:	1			
	Owner Information:				
	Healthcare Professional	Practice Name:	CVCA Cardiac Care for Pets		
	Information:				
		Contact:			
			Phone		
			Emat		
		Address:	<b>B6</b>		
			United States		
		Type of Veterinarian:	Referred veterinarian		
		Date First Seen:	09/24/2018		
		Permission to Release Records to FDA:	4		
Sender Information:	Name:	B6			
Sender information.					
Sender information.	Address:	United States			
Sender information.	Address: Contact:	Phone:	B6		
Sender information.	Contact:	Phone: Email:	B6		
Sender information.	Contact: Reporter Wants to Remain Anonymous:	Phone: Email:	B6		
Sender information.	Contact:	Phone: Email:	B6		
Sender information.	Contact:  Reporter Wants to Remain Anonymous: Permission To Contact	Phone: Email: No Yes	B6		
Sender information.	Reporter Wants to Remain Anonymous: Permission To Contact Sender: Preferred Method Of Contact: Reported to Other	Phone: Email: No Yes Email			
	Reporter Wants to Remain Anonymous: Permission To Contact Sender: Preferred Method Of Contact: Reported to Other	Phone: Email: No Yes Email Other			
	Reporter Wants to Remain Anonymous: Permission To Contact Sender: Preferred Method Of Contact: Reported to Other	Phone: Email: No Yes Email Other			
	Reporter Wants to Remain Anonymous: Permission To Contact Sender: Preferred Method Of Contact: Reported to Other	Phone: Email: No Yes Email Other			
	Reporter Wants to Remain Anonymous: Permission To Contact Sender: Preferred Method Of Contact: Reported to Other	Phone: Email: No Yes Email Other			
Additional Documents:	Reporter Wants to Remain Anonymous: Permission To Contact Sender: Preferred Method Of Contact: Reported to Other	Phone: Email: No Yes Email Other			
	Reporter Wants to Remain Anonymous: Permission To Contact Sender: Preferred Method Of Contact: Reported to Other	Phone: Email: No Yes Email Other			
	Reporter Wants to Remain Anonymous: Permission To Contact Sender: Preferred Method Of Contact: Reported to Other	Phone: Email: No Yes Email Other			
	Reporter Wants to Remain Anonymous: Permission To Contact Sender: Preferred Method Of Contact: Reported to Other	Phone: Email: No Yes Email Other			
	Reporter Wants to Remain Anonymous: Permission To Contact Sender: Preferred Method Of Contact: Reported to Other	Phone: Email: No Yes Email Other			
	Reporter Wants to Remain Anonymous: Permission To Contact Sender: Preferred Method Of Contact: Reported to Other	Phone: Email: No Yes Email Other			
	Reporter Wants to Remain Anonymous: Permission To Contact Sender: Preferred Method Of Contact: Reported to Other	Phone: Email: No Yes Email Other			
	Reporter Wants to Remain Anonymous: Permission To Contact Sender: Preferred Method Of Contact: Reported to Other	Phone: Email: No Yes Email Other			

<b>B6</b>	
	- !

Our Services in:	Our Services	in	B6	
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Blood Bank Cardiology Critical Care Diagnostic Imaging Emergency Medicine Hemodialysis Internal Medicine Oncology Surgery

	Cardiology Report
Client Information:	Patient Information:  B6  B6  - Neutered Male - Canine  Pomeranian  2.12 kilograms
Primary Veterinarian: Other Partner Veterinarians:	B6
Exam Date: Services provided at the B6	Tuesday, January 9, 2018 hospital.
<b>Diagnosis</b> : Dilated Cardiomyo	eathy (suspect taurine deficient cardiomyopathy), Congestive Heart Failure, Alopecia X
coughing and increased respira enlarged heart with evidence of disease. He did have an episod otherwise he has been healthy,	of possible congestive heart failure. He was noted to have an acute onset of wheezing ory rate. He was taken to his PDVM who performed radiographs which revealed a ver early pulmonary infiltrates. He has no history of a heart murmur or of any cardiac exix months ago of sneezing and some coughing that responded to antibiotics, but except that he has Alopecia X. Not currently taking anything other than regular fleate melatonin, lignan, probiotics, and fish oils. Diet is Zignature kangaroo.
	<b>B6</b>
Diagnostics:	
	<b>B6</b>
of the heart, leading to seconda caused high pressure within the lungs, and has caused the fluid	dilated cardiomyopathy (DCM), which is a primary problem with the squeezing function by heart enlargement B6 heart disease is advanced at this time, and it has left side of the heart. This high pressure has backed up into the blood vessels of the component of blood to leak out into the lung tissue (called pulmonary edema), leading

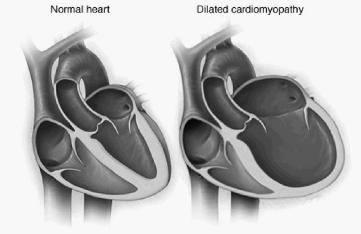
to the clinical signs that you have seen at home, such as coughing/wheezing and difficulty breathing.

DCM is most commonly seen in large and giant breed dogs and would be very unexpected in a Pomeranian. Another cause that can mimic DCM includes a deficiency in taurine, a protein found in meats. Interestingly, there have been other cases of taurine deficient DCM reported in dogs eating the same diet as **B6** For this reason, this is my top

CS Patient ID:	B6	Patient: B6	Client:	B6
OO I allelli ID.	DU	i allent. Do	Ollelli.	50

suspicion. Taurine deficiency is reversible with supplementation and many dogs can make a full recovery and heart medications.	come off
If B6 heart disease is not due to taurine deficiency, then it will continue to progress and he will require life medications. In this case, his prognosis is more guarded and he may only be manageable for a period of 6-12	-long months.
<b>B6</b>	
Medications:	
<b>B6</b>	
Monitoring: - Please watch B6 for signs of recurrent congestive heart failure such as increase in respiratory rate or efforcoughing, decreased appetite, and lethargy. Please monitor B6 respiratory rate and keep a daily record. Vasleep or resting very quietly B6 respiratory rate should be 20-30 breaths/min or less. If you notice a respirate that is trending upward or persistently elevated above 35-40 breaths/min (for 2-3 days), please call the Cardiology service or your primary care veterinarian.	When piratory
Follow-Up:  - A recheck cardiology examination, chemistry profile, and chest x-rays are recommended in 1-2 weeks.  - Long-term, recheck chemistry profiles are recommended every 3 months. These blood tests can be perform your primary care veterinarian.  - A recheck echocardiogram is recommended in 6 months to determine if B6 heart disease has reversed medications may be able to be stopped.	
Thank you for referring B6 to the Cardiology Service at B6 B6 We appreciate the opportunity to participate in the care of your patients and thank you for entrusting our hospital wire clients and their pets; your continued confidence is greatly appreciated. Please call or email us if you have any questions or concerns.	th your
Sincerely, B6	
***For prescription refills, please call B6 and ask for the Cardiology Prescription Refill Line. Please be aware can take up to 72 hours to get prescriptions refilled. This line, along with our email, will be monitored Tuesday – Friday, 8 6:00 pm. If you have an emergency please call the front desk immediately at B6 as it may take us up to to answer emails.***	3:00 am to
CS Patient ID: <b>B6</b> Patient: B6 Client: B6	age: 2 of 5

### **Dilated Cardiomyopathy (DCM)**



MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, ALL RIGHTS RESERVED.

Dilated cardiomyopathy, or DCM, is a heart condition characterized by a decreased pumping ability of the heart. This leads to volume retention within the heart and dilation of the heart chambers. In some dogs, this may only occur on the left side, while others have all chambers affected. This predisposes to the development of congestive heart failure and arrhythmias, which can cause sudden death in affected dogs.

This condition is most common in large to giant breeds, including Doberman pinschers, Irish wolfhounds, Great Danes, and Boxers. In these breeds, it is suspected of having a genetic basis as numerous abnormalities have been described in people with this condition. In veterinary medicine, we are aware of certain genetic defects that cause DCM including PDK4 & DCM2 in Dobermans and RBM20 in standard schnauzers, among others. Not all affected dogs will have one of these mutations however, and in these dogs, the disease is typically idiopathic meaning that no definitive cause can be identified.

There are also other conditions that can mimic DCM such as chronic doxorubicin toxicity (a chemotherapy agent), chronic myocarditis (i.e., inflammation of the heart muscle), or a nutritional deficiency in taurine. Taurine is a part of proteins that are found in meat products. Animals that are fed vegetarian diets that are not supplemented with taurine, and occasionally, dogs that are fed diets where this nutrient is just unavailable for absorption, are at risk for manifesting this disease. Importantly, this form of the disease may be reversible if supplementation is initiated and some dogs are able to be weaned completely from cardiac medications.

Treatment of this disease revolves around management of the complications (heart failure, arrhythmias) as well as taurine supplementation if there is concern for a dietary cause. There are currently no surgeries that have been shown to improve the prognosis in these dogs.

Prognosis for this disease is variable depending upon the underlying cause. Dobermans with the genetic or idopathic form of the disease are known to be at a high risk for sudden death and heart failure may only be manageable for 3-6 months. In other breeds with the idiopathic form of this disease, the prognosis is better with survivals averaging 6-12 months and, in general, lower risks for sudden death. As stated above, taurine deficiency is potentially reversible to the point that medications may be discontinued; however, resolution generally takes at least 4 months to become evident on an echocardiogram.

#### Congestive heart failure (CHF)

CHF is a result of very severe heart disease. When there is severe heart disease, the normal function of the heart (left-sided, right-sided, or both) is so impaired that it cannot handle the normal flow of blood/fluid in the body and therefore, the fluid backs up. Congestion refers to this backup of fluid either into the lungs (left-sided heart failure) or body (right-sided heart failure). The most common causes of CHF include a stiff heart that does not stretch and fill appropriately, impaired heart valves that leak, or disease resulting in a poor pumping function of the heart. Complete diagnostic evaluations, including echocardiograms, allow the management of the heart disease to be tailored to the individual patient. The goal of treatment of CHF in animals is to remove the fluid and allow the patient to be able to breathe comfortably and live a good quality of life. Because severe disease will always progress, it is important to monitor for signs of worsening disease, that is, return of congestion so that treatment can be modified appropriately.

Monitoring left sided congestive heart failure (CHF): pulmonary edema

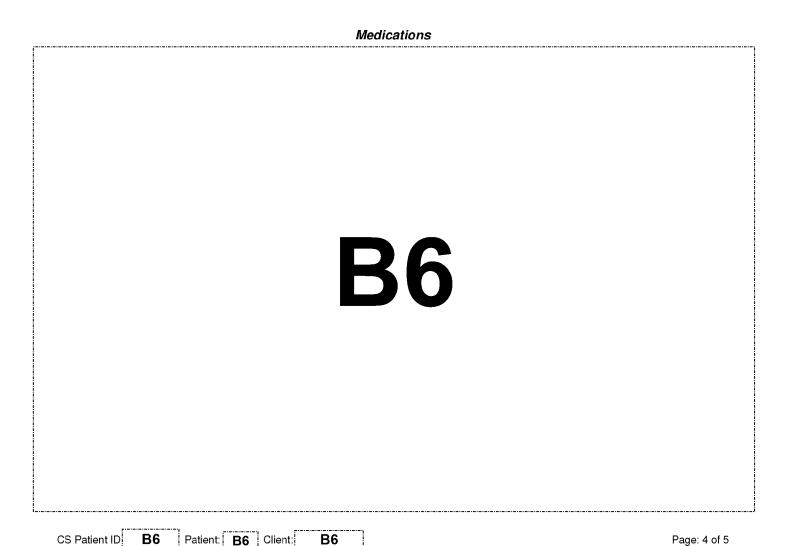
CS Patient IC R6   Patient   R6   Client   R6		L				F	
	CS Patient I	⊔ В6 ¦	Patient:	B6	Client:	B6	

Pulmonary edema is the back up of fluid into the lungs. When animals have evidence of pulmonary edema, they will have an increased rate and sometimes effort of breathing, coughing, and exercise intolerance.

#### At home monitoring:

The most sensitive means of monitoring for pulmonary edema is counting the sleeping respiratory rate at home. Keeping a log of how fast your pet is breathing during deep sleep can be helpful in determining if fluid is starting to build up in the lungs. A normal dog or cat should have a sleeping respiratory rate of 20-30 breaths per minute (bpm) or less. One breath is one excursion of the chest up and down. Panting is not excessive breathing. Panting can indicate many things and therefore, cannot be used as a determination of breathing rate. An awake animal who is managed for CHF will probably have a respiratory rate over 30 breaths/min, therefore it is important to consider the rate only while sleeping. Some animals also have underlying lung disease that might increase the breathing rate, therefore, this may need to be taken into consideration. It is most important to get a baseline when it is believed that there is no evidence of congestion (as assessed by yourself and your veterinarian). If you notice a consistent increased rate over a few days, then you should call your veterinarian as they will be able to determine if your pet is showing signs of congestion and determine the best course of action. As a general guideline, a rate between 30-45 breaths/min may indicate a small amount of fluid or could possibly be normal for a patient who has consistently had this higher breathing rate. If your pet's respiratory rate jumps up above 40-44 breaths/min when it has been consistently under 30 breaths/min, then it is likely that there is fluid in the lungs. You should call your veterinarian or consider taking your pet into the veterinarian soon.

Chest x-rays are needed to document congestive heart failure. However, if there is only a small amount of fluid, the x-rays may not always give a clear answer. Many times, the diagnosis of congestion is based on your observations at home (particularly respiratory rate), physical examination findings, as well as the x-ray results. If after x-rays and a review of your observations at home it is still difficult to determine if there is truly congestion, a trial with an increased dose of lasix can be tried. If you can determine by monitoring the breathing rate or resolution of the clinical signs that the lasix helps significantly, then congestion can be confidently identified.



# **B6**

CS Patient ID **B6** atient **B6** lient **B6** 

	Purchase Location Information:					
	Manufacturer /Distributor Information:					
		Other Foods or Products Given to the Animal During This Time Period:				
		Relatedness to Adverse Event:				
		Product Use Started Again:				
		Adverse Event Abate After Product Stop:				
		Product Use Stopped After the Onset of the Adverse Event:				
		Last Exposure Date:	08/16/2018			
	Information:	First Exposure Date:				
	Product: Product Use					
	Product: Possess Opened	Yes				
	Possess Unopened	No				
	Package Type: Package Size:					
	3	6499250125				
	Product Type: Lot Number:	<u>g</u>				
Product Information:		Acana Free Run Po	ultry dry			
	Outcome to Date:					
	Problem: Pre Existing Conditions:	Hypothyroid, obesity, osteoarthritis, behavioral issues				
	Date Problem Started: Concurrent Medical					
		/18. Started on meds B6 We saw at Tufts 8/16 /18. Clinically improved but still has significant DCM and CHF plus arrhythmia. We added B6 WB taurine pending. Another dog in household (also a Doberman) was eating the same food but was echoed today and has no signs of DCM.				
Report Submission Date: Reported Problem:	Problem Description:	: Taken to RDVM for lameness. Dilated cardiomyopathy and CHF diagnosed 8/6				
Reporting Type:	Voluntary 2018-08-20 16:33:06 EDT					
Type Of Report:	Adverse Event (a symptom,	reaction or disease	associated with the product)			
Report Version:	FPSR.FDA.PETF.V.V1					
Гуре Of Submission:	Initial					
CSR:	2053969					

	Type Of Species:	Dog			
	Type Of Breed:	Doberman Pinscher			
	Gender:	Male			
	Reproductive Status:	Neutered			
	Weight:	45 Kilogram			
	Age	B6 ears			
	Assessment of Prior Health:	Excellent			
	Number of Animals Given the Product:	2			
	Number of Animals Reacted:	1			
	Owner Information:	Owner Information provided:	Yes		
		Contact:	Name:		
			Phone:	<b>B6</b>	
			Email:	<b>D</b> 0	
		Address:		·	
		,	<b>B</b> 6		
			United States		
	Healthcare Professional	Practice Name:	Tufts Cumming	s School of Veterinary	Medicine
	Information:	Contact:	Name:	Lisa Freeman	
				(508) 887-4523	
				lisa.freeman@tufts.edu	u
		Address:	200 Westboro North Grafton Massachusetts 01536 United States	Rd	
Sender Information:	Name:	Lisa Freeman			
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States			
	Contact:	Phone:	5088874523		
			lisa.freeman@t	rufts.edu	
	Permission To Contact Sender:	Yes			
	Preferred Method Of Contact:	Email			
	Reported to Other Parties:	None			
Additional Documents:					
	Attachment:	B6 cardio re	eport 8-16-18.pr	nx.pdf	
	Description:	Cardio report			
		Sonogram			
	Attachment:	B6 n discharg	ie 8-16-18 ndf		
		Discharge report	,		
		Other			
	., рег				

Attachment:	В6	.prnx.pdf
.,	Chest rads from rdvm	
	Radiographs	
Attachment:	<b>B6</b> profile 8-16-18	prnx pdf
Description:	Chemistry profile	Princed
	Laboratory Report	
туре.	Laboratory Report	

Report Details - EON-	374786					
ICSR:	2060599					
Type Of Submission:	Initial					
Report Version:	FPSR.FDA.PETF.V.V1					
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	associated with the produ	uct)		
Reporting Type:	Voluntary					
Report Submission Date:	2018-12-27 10:09:22 EST					
Reported Problem:	Problem Description:	B6 was asympto - reduced contractile	omatic but eating same d function. Owner change	B6 - previously reported). let (Acana) so was screened 8/20/18 d diet to Pro Plan Weight 18 echo. Will recheck in 3 months		
	Date Problem Started:	08/20/2018				
	Concurrent Medical Problem:	Yes				
	Pre Existing Conditions:		В6			
	Outcome to Date:	Stable				
Product Information:	Product Name:	Acana Free Run Pou	ultry dry			
	Product Type:	Pet Food				
	Lot Number:					
	Package Type:	BAG				
	Product Use Information:	Description:		y 9/2016 (see diet history form) eight Management Aug 2018		
	Manufacturer /Distributor Information:		123 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	Purchase Location Information:					
Animal Information:	Name:	B6				
	Type Of Species:	Dog				
	Type Of Breed:	Doberman Pinscher	יינים הנותו מו הדוות מותות הדוות המותות ההדוות הדוות הדו			
	Gender:	Female				
	Reproductive Status:					
	2 (	38.1 Kilogram				
	1)	10 Years				
	Assessment of Prior Health:					
	Number of Animals Given the Product:					
	Number of Animals Reacted:		The second secon			
	Owner Information:	Owner Information provided:				
		Contact:	Name:			
			Phone:	<b>B</b> 6		
			Email:			
		Address:	<b>B6</b>			
			United States	00 00 00 00 00 00 00 00 00 00 00 00 00		
	Healthcare Professional	Dungtin Ni	71			
	Information:	Practice Name:	Tufts Cummings Schoo			
		Contact:	Name: Lisa Fre	eman		

			Phone:	(508) 887-4523
				lisa.freeman@tufts.edu
		Address:	200 Westboro North Grafton Massachusetts 01536 United States	
Sender Information:	Name:	Lisa Freeman		
		200 Westboro Rd North Grafton Massachusetts 01536 United States		
	Contact:	Phone:	5088874523	
		Email:	lisa.freeman@t	ufts.edu
	Permission To Contact Sender:	Yes		
	Preferred Method Of Contact:	Email		
Additional Documents:				
	Attachment:	B6 medic	al records.pdf	
		Medical records		
	Type:	Medical Records		

{						
Report Details - EON-	383005					
ICSR:	2064397					
Type Of Submission:	Followup					
Report Version:	FPSR.FDA.PETF.V.V1					
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	issociated with the product)			
Reporting Type:	Voluntary					
Report Submission Date:						
Initial Report Date:	12/27/2018					
Parent ICSR:	2060599					
Follow-up Report to FDA Request:	Yes					
Reported Problem:	Problem Description:	Housemate was diag	gnosed with DCM (ве;- previously reported).			
	·	B6 was asympto - reduced contractile	matic but eating same diet (Acana) so was screened 8/20/18 function. Owner changed diet to Pro Plan Weight improvement on 12/12/18 echo. Will recheck in 3 months			
	Date Problem Started:	08/20/2018				
	Concurrent Medical Problem:	Yes				
	Pre Existing Conditions:	B6				
	Outcome to Date:	Better/Improved/Recovering				
Product Information:	Product Name:	Acana Free Run Pou	ıltry dry			
	Product Type:	Pet Food				
	Lot Number:					
	Package Type:	: BAG				
	Product Use Information:	Description:	Fed since approximately 9/2016 (see diet history form) Changed to Pro Plan Weight Management Aug 2018			
	Manufacturer /Distributor Information:					
	Purchase Location Information:					
Animal Information:	Name:	B6				
	Type Of Species:					
	2)	Doberman Pinscher				
	Gender:					
	Reproductive Status:					
		38.1 Kilogram				
	:	10 Years				
	Assessment of Prior Health:					
	Number of Animals Given the Product:	2				
	Number of Animals Reacted:	2				
	Owner Information:	Owner Information provided:	Yes			
		Contact:	Name:			
			Phone: R6			
			Email:			
		Address:				
		Addices.	<b>B6</b>			

			<b>B6</b> United States			
		Practice Name:	Tufts Cumming	s School of Veterinary Medicine		
	Information:	Contact:	Name: Lisa Freeman			
			Phone:	(508) 887-4523		
			Email: lisa.freeman@tufts.edu			
		Address:	Address: 200 Westboro Rd North Grafton Massachusetts 01536 United States			
Sender Information:	Name:	Lisa Freeman				
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States				
	Contact:	Phone:	5088874523			
		Email:	lisa.freeman@t	tufts.edu		
	Permission To Contact Sender:	Yes				
	Preferred Method Of Contact:					
	Reported to Other Parties:	None				
Additional Documents:						
		Medical Record.pdf				
		tion: Updated diet history, echo, ECG and Holter monitor				
	Type:	Medical Records				

Report Details - EON-	390790					
ICSR:	2069328					
Type Of Submission:	Followup		***************************************			
	FPSR.FDA.PETF.V.V1	a a arra a nostrira a bira a a latra a a arra da bira a a bira a a arra a a arrar	0.0000	ntára a niva a n inta a niva a la nta a niva a nata a nivasi		
Report Version:	0.9 				orannua montannu Arnontannuu annuu annu	
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	associated with the	product)		
Reporting Type:	Voluntary					
Report Submission Date:	<u> </u>					
Initial Report Date:	12/27/2018					
Parent ICSR:	2060599					
Follow-up Report to FDA Request:	Yes					
Reported Problem:	Problem Description:	- reduced contractile	matic but eating sa function. Owner ch	ame diet (Acana) s nanged diet to Pro	viously reported). o was screened 8/20/18 Plan Weight I recheck in 3 months	
	Date Problem Started:	: 08/20/2018				
	Date of Recovery:	06/11/2019			A CONTRACTOR OF THE CONTRACTOR	
	Concurrent Medical Problem:	<u> </u>				
	Pre Existing Conditions:	1	B6		The state of the s	
	3)	Recovered Complete				
Product Information:	Product Name:	Acana Free Run Pou	ultry dry			
	Product Type:	Pet Food		<u> </u>		
	Lot Number:				10.7	
	Package Type:	BAG			9	
	Product Use	11111				
	Information:	Description.	Changed to Pro Pl			
	Manufacturer /Distributor Information:			va (n. v.		
	Purchase Location Information:					
Animal Information:	Name:	B6				
	Type Of Species:	Dog			AND DESCRIPTION	
	Type Of Breed:	Doberman Pinscher	***************************************	***************************************	55.00	
	Gender:	Female			33 - 34 - 34 - 34 - 34 - 34 - 34 - 34 -	
	Reproductive Status:	Neutered			A CONTRACTOR OF THE CONTRACTOR	
		38.1 Kilogram				
	1	10 Years		niitaa niiraa niitaa niiraa niiraa niiraa niiraa niiraa niiraa		
	Assessment of Prior Health:	<del>-</del>				
	Number of Animals Given the Product:	2				
	Number of Animals Reacted:	2				
	Owner Information:	Owner Information provided:	Yes			
		Contact:	Name:			
			Phone:	RA	70000	
			Email:		00 x 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Address:	·			
	5.5	MUUICSS.	<b>B6</b>	:	550	

			<b>B6</b> United States	
	Healthcare Professional	Practice Name:	Tufts Cumming	s School of Veterinary Medicine
	Information:	Contact:	Name:	Lisa Freeman
			Phone:	(508) 887-4523
			Email:	lisa.freeman@tufts.edu
		Address:	200 Westboro North Grafton Massachusetts 01536 United States	
Sender Information:	Name:	Lisa Freeman		
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States		
	Contact:		5088874523	
			lisa.freeman@t	ufts.edu
	Permission To Contact Sender:	Yes		
	Preferred Method Of Contact:	Email		
	Reported to Other Parties:	None		
Additional Documents:				
	Attachment:	<b>B6</b> -2	019-06-12-1033	3.pdf
		Idexx NT pro-BNP		
	Туре:	Laboratory Report		
	Attachment:	Diet hx 6-11-2019.pd	df	
	Description:	med records		
	Туре:	Medical Records		
	Attachment:	Echo report V9.pdf		
	Description:			
	Type:	Echocardiogram		

Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group From: (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo> To: 'Freeman, Lisa' Sent: 8/23/2018 3:56:57 PM Subject: RE: updates Hi Lisa, Do we have permission to contact **B6** about the 2 dobermans? Thank you, Jen Jennifer Jones, DVM Veterinary Medical Officer Tel: 240-402-5421 PA U.S. FOOD & DRUG ADMINISTRATION From: Freeman, Lisa [mailto:Lisa.Freeman@tufts.edu] **Sent:** Monday, August 20, 2018 6:18 PM To: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov> Subject: updates I forgot to note on the report I submitted today that I have a food sample and UPC code for the Acana food that the 2 Dobies were eating. whose heart has improved significantly, I just got a sample from the owner who found Also, for B6 house – it is not fresh but I'm saving for you in case you want some food remaining at her Thanks Lisa Lisa M. Freeman, DVM, PhD, DACVN Board Certified Veterinary Nutritionist<sup>TM</sup> Professor **Cummings School of Veterinary Medicine** Friedman School of Nutrition Science and Policy Tufts Clinical and Translational Science Institute **Tufts University** www.petfoodology.org

Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group From: (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo> To: 'Freeman, Lisa' Sent: 8/24/2018 11:29:51 AM Subject: RE: updates Thank you, Lisa. I'll contact them. Jennifer Jones, DVM Veterinary Medical Officer Tel: 240-402-5421 🕰 U.S. FOOD & DRUG ADMINISTRATION From: Freeman, Lisa [mailto:Lisa.Freeman@tufts.edu] Sent: Thursday, August 23, 2018 12:26 PM To: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov> Subject: Re: updates Hi Jen. They gave permission to report so i think it would be fine til contact but I can specifically check if you'd prefer Lisa Sent from my iPhone On Aug 23, 2018, at 11:57 AJones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u>> wrote: Do we have permission to contact **B6** about the 2 dobermans? Thank you, Jen Jennifer Jones, DVM Veterinary Medical Officer Tel: 240-402-5421 <image001.png> <image002.png> From: Freeman, Lisa [mailto:Lisa.Freeman@tufts.edu] **Sent:** Monday, August 20, 2018 6:18 PM To: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov> Subject: updates I forgot to note on the report I submitted today that I have a food sample and UPC code for the Acana food that the 2 Dobies were eating. whose heart has improved significantly, I just got a sample from the owner who found some food remaining at her **B6** house – it is not fresh but I'm saving for you in case you want Thanks Lisa Lisa M. Freeman, DVM, PhD, DACVN Board Certified Veterinary Nutritionist<sup>TM</sup> Professor **Cummings School of Veterinary Medicine** 

Friedman School of Nutrition Science and Policy Tufts Clinical and Translational Science Institute Tufts University <a href="https://www.petfoodology.org">www.petfoodology.org</a>

{						
Report Details - EON-	383005					
ICSR:	2064397					
Type Of Submission:	Followup					
Report Version:	FPSR.FDA.PETF.V.V1					
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	ssociated with the product)			
Reporting Type:	Voluntary					
Report Submission Date:	2019-03-21 17:33:50 EDT					
Initial Report Date:	12/27/2018					
Parent ICSR:	2060599					
Follow-up Report to FDA Request:	Yes					
Reported Problem:	Problem Description:	Housemate was diagnosed with DCM B6 - previously reported).				
	. [	B6 y was asympto - reduced contractile	matic but eating same diet (Acana) so was screened B6 function. Owner changed diet to Pro Plan Weight improvement on B6 echo. Will recheck in 3 months			
	Date Problem Started:	08/20/2018				
	Concurrent Medical Problem:					
	Pre Existing Conditions	B6				
	Outcome to Date:	: Better/Improved/Recovering				
Product Information:	Product Name:	Acana Free Run Pou	ıltry dry			
	Product Type:					
	Lot Number:					
	Package Type:	BAG				
	Product Use Information:					
	Manufacturer /Distributor Information:					
	Purchase Location Information:					
Animal Information:	Name:	B6				
	Type Of Species:					
	· / /	Doberman Pinscher				
	Gender:					
	Reproductive Status:					
		38.1 Kilogram				
	3	10 Years				
	Assessment of Prior Health:					
	Number of Animals Given the Product:	2				
	Number of Animals Reacted:	2				
	Owner Information:	Owner Information provided:	Yes			
		Contact;	Name:			
			Phone: R6			
			Email:			
		A .7.7.	Lindii			
		Address:	<b>B6</b>			

			<b>B6</b> United States	
	Healthcare Professional	Practice Name:	Practice Name: Tufts Cummings School of Veterinary Medicine	
	Information:	Contact:	Name:	Lisa Freeman
			Phone:	(508) 887-4523
			Email:	lisa.freeman@tufts.edu
		Address:	200 Westboro North Grafton Massachusetts 01536 United States	
Sender Information:	Name:	Lisa Freeman		
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States		
	Contact:	Phone:	5088874523	
		Email:	lisa.freeman@t	ufts.edu
	Permission To Contact Sender:	Yes		
	Preferred Method Of Contact:	Email		
	Reported to Other Parties:	None		
Additional Documents:				
	Attachment:	Medical Record.pdf		
		Updated diet history	, echo, ECG and	d Holter monitor
	Type:	Medical Records		

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

**Sent:** 2/24/2019 10:08:57 PM

Subject: Acana: Lisa Freeman - EON-380708

Attachments: 2063115-report.pdf; 2063115-attachments.zip

A PFR Report has been received and PFR Event [EON-380708] has been created in the EON System.

A "PDF" report by name "2063115-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 "2063115-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-380708

ICSR #: 2063115

**EON Title:** PFR Event created for Acana Natural Balance Petcurean (see diet history for additional details);

2063115

AE Date	02/16/2019	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	Terrier - Bull - American Pit		
Age	<b>B6</b> Years		
District Involved	PFR-New England DO		

#### **Product information**

**Individual Case Safety Report Number: 2063115** 

Product Group: Pet Food

**Product Name:** Acana, Natural Balance, Petcurean (see diet history for additional details)

**Description:** DCM and CHF diagnosed 2/16/19. Eating multiple BEG diets Taurine and troponin pending Dog changed to Purina HA vegetarian dry while in hospital and owner has continued this. Will try switching to Pro Plan Sensitive Skin and Stomach Salmon when bag of HA runs out. If she tolerates that, will stay on it. If not,

will switch back to HA since she's done well on that.

Submission Type: Initial

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

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

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

Product Name	Lot Number or ID	Best By Date
Acana, Natural Balance, Petcurean (see diet history for additional details)		

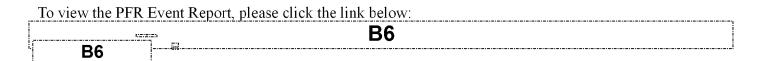
#### Sender information

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

Owner	inform	ation

**B6** 

To view this PFR I	Event, pleas	e click the	link below
	B6		



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

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

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Report Details - EON-	380708				
ICSR:	2063115				
Type Of Submission:	Initial				
Report Version:	FPSR.FDA.PETF.V.V1				
Type Of Report:	Adverse Event (a symptom,	reaction or disease	associated with the product)		
	<u> </u>	reaction of disease a	associated with the product)		
Reporting Type:	Voluntary 2019-02-24 17:00:13 EST				
Report Submission Date:					
Reported Problem:	Problem Description:	troponin pending Do owner has continued Stomach Salmon wh	nosed 2/16/19. Eating multiple BEG diets Taurine and g changed to Purina HA vegetarian dry while in hospital d this. Will try switching to Pro Plan Sensitive Skin and nen bag of HA runs out. If she tolerates that, will stay on i to HA since she's done well on that.		
	Date Problem Started:	02/16/2019			
	Concurrent Medical Problem:	Yes			
	Pre Existing Conditions:	Diarrhea would deve	elop 2-3 weeks after starting a new food. Owner rotated f	oods	
	Outcome to Date:	Stable			
Product Information:	Product Name:	Acana, Natural Bala	nce, Petcurean (see diet history for additional details)		
	Product Type:	ş			
	Lot Number:			***************************************	
	Package Type:				
	Product Use				
	Information: Manufacturer	written on diet history form is "Natural Balance"			
	/Distributor Information:				
	Purchase Location Information:				
Animal Information:	Name:	B6			
	Type Of Species:	Dog			
	Type Of Breed:	Terrier - Bull - Ameri	can Pit		
	Gender:	Female			
	Reproductive Status:	Neutered			
	Weight:	t. 18 Kilogram			
	Age:	B6 Years			
	Assessment of Prior Health:	Excellent			
	Number of Animals Given the Product:	1			
	Number of Animals Reacted:	1			
	Owner Information:	Owner Information provided:			
		Contact:	Name:		
			Phone: B6		
			Email:	200000	
		Address:		000000000000000000000000000000000000000	
			<b>B6</b>	200000000000000000000000000000000000000	
			United States		
	Healthcare Professional Information:	Practice Name:	Tufts Cummings School of Veterinary Medicine	10	

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

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

 To:
 Jones, Jennifer L

 Sent:
 2/24/2019 11:05:45 PM

Subject: ps - B6

Hi Jen

I forgot to mention that I have diet samples for the Natural Balance and Acana fo Lisa

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

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

B6

**Sent:** 6/10/2019 9:32:54 PM

Subject: Acana: Lisa Freeman - EON-390104

Attachments: 2068046-report.pdf; 2068046-attachments.zip

A PFR Report has been received and Related PFR Event [EON-390104] has been created in the EON System.

A "PDF" report by name "2068046-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 "2068046-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-390104

ICSR #: 2068046

EON Title: Related PFR Event created for Acana Natural Balance Petcurean (see diet history for additional

details); 2068046

AE Date	02/16/2019	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Better/Improved/Recovering
Breed	Terrier - Bull - American Pit		
Age	<b>B6</b> Years		
District Involved	PFR-New England DO		

#### **Product information**

**Individual Case Safety Report Number: 2068046** 

Product Group: Pet Food

**Product Name:** Acana, Natural Balance, Petcurean (see diet history for additional details)

**Description:** DCM and CHF diagnosed 2/16/19. Eating multiple BEG diets Taurine and troponin pending Dog changed to Purina HA vegetarian dry while in hospital and owner has continued this. Will try switching to Pro Plan Sensitive Skin and Stomach Salmon when bag of HA runs out. If she tolerates that, will stay on it. If not, will switch back to HA since she's done well on that.

**Submission Type:** Followup

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

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

Product Name	Lot Number or ID	Best By Date
Acana, Natural Balance, Petcurean (see diet history for additional details)		

This report is linked to:

**Initial EON Event Key: EON-380708** 

Initial ICSR: 2063115

#### **Sender information**

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

_			
r	WHAP	intorr	nation
•	WILL	HHIVLI	пануп

**B6** 

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

Be

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

DC -----

B6

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-					
ICSR:	2068046				
Type Of Submission:	Followup FPSR.FDA.PETF.V.V1	annian nota a noi an airtia a noi an ta na an	reconstituta e reconstituta e reconstituta e e e e e e e e e e e e e e e e e e e		
Report Version:	5 	reaction or discoss a	cenniated with th	ne product)	
Type Of Report:	Adverse Event (a symptom,	reaction of disease a	ssociated with th	ie product)	
Reporting Type:	Voluntary 2019-06-10 17:24:05 EDT				
Report Submission Date: Initial Report Date:	02/24/2019				
Parent ICSR:	2063115				
Follow-up Report to	Yes				
FDA Request:					
Reported Problem:	Problem Description:	troponin pending Dogowner has continued	g changed to Pur this. Will try swit en bag of HA rur	ating multiple BEG diets Taurine and rina HA vegetarian dry while in hospital and tching to Pro Plan Sensitive Skin and so out. If she tolerates that, will stay on it. If sone well on that.	
	Date Problem Started:	02/16/2019	***************************************		
	Concurrent Medical Problem:	Yes			
		Diarrhea would develop 2-3 weeks after starting a new food. Owner rotated foods to try to avoid this.			
	Outcome to Date:	Better/Improved/Rec	overing		
Product Information:	Product Name:	Acana, Natural Balance, Petcurean (see diet history for additional details)			
	Product Type:	: Pet Food			
	Lot Number:	18 18 18			
	Package Type:				
	Product Use Information:	December 1 in the second of th			
	Manufacturer /Distributor Information:				
	Purchase Location Information:				
Animal Information:	Name:	B6			
	Type Of Species:	Dog			
	Type Of Breed:	l: Terrier - Bull - American Pit			
	Gender:	Female			
	Reproductive Status:	Neutered			
	23	18 Kilogram			
		B6 ears			
	Assessment of Prior Health:	r Excellent			
	Number of Animals Given the Product:	1			
	Number of Animals Reacted:	1			
	Owner Information:	Owner Information provided:	Yes		
		Contact:	Name:		
			Phone:	<b>B6</b>	
	4				
			Email:		

			<b>B6</b>	
			United States	
	Healthcare Professional	Practice Name:	Tufts Cumming	s School of Veterinary Medicine
	Information:	Contact:		Lisa Freeman
				(508) 887-4523
				lisa.freeman@tufts.edu
		Address:	200 Westboro North Grafton Massachusetts 01536 United States	Rd
Sender Information:	Name:	Lisa Freeman		
	Address:			
	Contact:	Phone:	5088874523	
		Email: lisa.freeman@tufts.edu		
	Permission To Contact Sender:			
	Preferred Method Of Contact:	Email		
Additional Documents:				
	Attachment:	Diet hx 5-13-2019.pd	df	
	Description:	Diet History form		
	Type:	Medical Records		
	Attachment:	Troponin 3-6-2019.p	df	
	Description:	Lab work		
	Type:	Laboratory Report		
	Attachment:	Follow-up records pt	2 pdf	
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	Description:	Medical Records		
		Medical Records  Medical Records		
	Туре:	Medical Records	1 ndf	
	Type:	Medical Records Follow-up records pt	1.pdf	
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	Type:  Attachment:  Description:  Type:  Attachment:  Description:	Medical Records Follow-up records pt Medical Records Medical Records Recheck chem 21 5-		

#439571

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

Pet's name	36	Owner's name:	B6	•	Today's	date: 5/13/19
How would v	ou assess your net	s appetite? (mark the po	oint on the line I	helow that he	t represents vo	ur net's appotita)
Example:				UCIOW that bes		ui pers appenie)
<i>Ехапірів.</i>	P001			-	_Excellent	
	Danu			-		
	Poor				_Excellent	
				1		
Have you no	ticed a change in vo	our pet's appetite over th	o last 1.2 wook	rc2 (abook all	that apply	
Have you no	the same amount a		than usual	Eats more		
		s than usual Other		Lats more	e man usuai	
	Aciel amerent locat	than asaar Bother				<del></del>
Over the last	few weeks, has you	r pet (check one)				
		t □Stayed about the	same weight	□Don't know		
0	, _ , _ ,		outo.			
<ol> <li>Please list be</li> </ol>	elow ALL pet foods.	people food, treats, sna	ck. dental chev	vs. rawhides. a	and any other fo	ood item that your net
currently eats	s and that you have	fed in the last 2 years.	,	,, -		ou nom that your pot
•	•	<b>,</b>				
Please provid	de enough detail tha	t we could go to the sto	re and buy the	exact same fo	od - examples	are shown in the table
	nclude specific pro		Form	Amount	How often?	Dates fed
		& Sweet Potato Adult	dry	1 ½ cup	2x/day	Jan 2016-present
85% lean hai	mburger		microwaved	3 oz	1x/week	June -Aug 2016
	iginal beef flavor		treat	1/2	1x/day	Sept 2016-present
Rawhide	a V	7	ţreat	6 inch twist	1x/week	Dec 2018-present
DUI/A		14n Salmin	ally	1,5 XZ	X	my19-P1888
Ser	isotuc skin,	stornach				
*Any addition	al diet information c	an be listed on the back	of this sheet			
W						
2. Do you give a	any dietary supplem	ents to your pet (for exa	mple: vitamins	glucosamine	, fatty acids, or	any other
supplements)	)? • Yes • No	If yes, please list which	ch ones and giv	e brands and	amounts:	4
Touring	TV TN-	6 1 .0	Concentration		2	Amount per day
Taurine Carnitine	✓Yes □No				<	9/099
Antioxidants	□Yes □No					
Multivitamin	DVes DNo				_	
Fish oil			_		_	
Coenzyme Q	10 Yes No				<del>-</del>	
Other (please						
Example: Vita		Nati	ure's Bounty		500 mc	tablets – 1 per day
,		, , , , ,	o 2 o a,		000 mg	rabiolo i por day
	administer pills to yo	ur pet?				
	e any medications					
	directly in my pet's r					
	in my pet's dog/cat t					
	in a Pill Pocket or si		nut	01		
pr I put them	in foods (list foods):	[ 0 0	110	0,(		

#### Chem 21 - 5/13/2019



#### Tufts Cummings School Of Veterinary Medicine

200 Westboro Road North Grafton, MA 01536

#### DUPLICATE

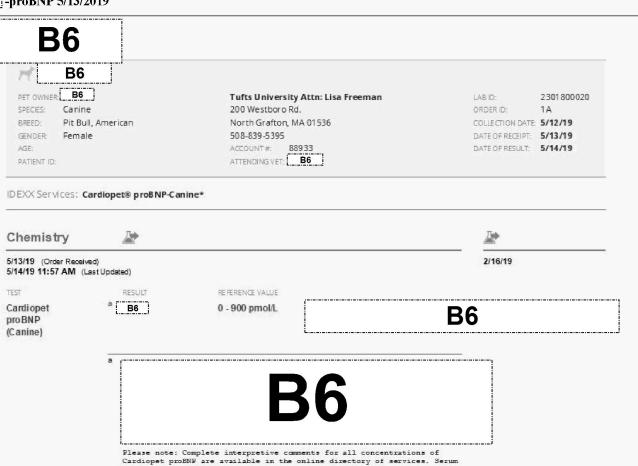
Name/DOB: B6		Provider. B6
Patient ID: 439571	Sex: SF	Order Location: V320559: Investigation into
Phone number:	Age: 5	Sample ID: 1905130113
Collection Date: 5/13/2019 1:50 PM	Species: Canine	
Approval date: 5/13/2019 2:51 PM	Breed: Pit Bull	

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

Sample ID: 1905130113/1 Reviewed by: \_\_\_\_\_\_\_
END OF REPORT (Final)



**B6** -proBNP 5/13/2019



specimens received at room temperature may have decreased NT-proBNP

Generated by VetConnect® PLUS May 14, 2019 12:50 PM

concentrations.

Page 1 of 1

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



В6

USA

200 Westboro Road

North Grafton, MA 01536

#### Gastrointestinal Laboratory

#### Dr. J.M. Steiner

#### Department of Small Animal Clinical Sciences

#### Texas A&MUniversity 4474 TAMU

College Station, TX 77843-4474

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

Tufts Cummings School of Vet Med - Cardiology/Nutrition

GI Lab Assigned Clinic ID: 23523

Phone:

Fax:

Animal Name:

Owner Name: Species:

Date Received:

В6

508 887 4696

Canine May 30, 2019

Tufts Cummings School of Vet Med -Cardiology/Nutrition Tracking Number. GI Lab Accession: B6

Test Result Reference Interval Assay Date **B6** Ultra-Sensitive Troponin I Fasting ≤0.06 05/31/19

Comments:			

GI Lab Contact Information

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

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

# Cummings Veterinary Medical Center

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

#### Discharge Instructions

<u>Patient</u>	Owner	
Name B6	<b>Name:</b> B6	<b>Patient ID: 439571</b>
Species: Canine	Address: B6	
Brown/White Female (Spayed) Pit Bull	БО	
Birthdate B6	\ <u></u>	
Attending Cardiologist:  John E. Rush DVM, MS, DACVIM (	Cartinhad DACLECC	
B6	22 Cabling Vij. Love. weet.	
Cardiology Resident:	!	
В	5	
Cardiology Technician:		
<b>B6</b>		
Call Inc.		
Student: B6 V'20		
Admit Date B6		
Discharge Date: B6		
Diagnoses: Dilated cardiomyopathy (DOM	with concestive heart failure	
	,	
Diagnostic test results and findings:		
<del>-</del>	art is smaller and has better contra	ctile function. There is still dilation but there
is marked improvement.  O Labwork findings: We will call you	with the require	
O Tabliott manife. We will can you	T WILL DETERMINE	
Case summary:		
Thank you for bringing B6 or her 3 month		
weight! On her three month discharge tod		
however there is enough dilation that requ		iont it is unclear whether her problem is a ere is a marked improvement in her heart, we
will still keep her on her current medication		
-	<u> </u>	•
Monitoring at home:		e, ideally during sleep or at a time of rest. The
does of drugs will be adjusted be	; streathing rate and entire tachdrise sed on the breathing rate and effort	e, weary curring steep or at a time or rest. The
		breathing rate at rest of less than 32 breaths
		belly wall motion used for each breath, is
fairly minimal if heart failure is cor		ļ
<ul> <li>An increase in breathing rate or el</li> </ul>	fort will usually mean that you shor	uld give an extra dose of B6 If

that a recheck exam be scheduled and/or that your dog be evaluated by an emergency dinic.
O There are instructions for monitoring breathing, and a form to help keep track of breathing rate and drug dose the Tufts HeartSmart web site (http://vet.tufts.edu/heartsmart/at-home-monitoring/).
<ul> <li>We also want you to watch for weakness or collapse, a reduction in appetite, worsening cough, or distention or</li> </ul>
bely as these findings indicate that we should do a recheck examination.
O If you have any concerns, please call or have your dog evaluated by a veterinarian. Our emergency clinic is open
hours/day.
•
Recommended Medications.
<b>B6</b>
DC
B6
Diet suggestions:
B6 can continue with her current diet.
Exercise Recommendations:
B6 can continue with her walks, but should not be stimulated to go any faster than the current pacing rhythm she is or
However, if you find that $\frac{86}{1}$ is lagging behind or needs to stop on a walk then this was too long a walk and shorter wal
are advised in the future. Repetitive or strenuous high energy activities (repetitive ball chasing, running fast off-leash, e
are generally not advised at this stage.
Recheck Visits:
You have a recheck visit scheduled for Friday, August 16th at 2 pm. Please contact our Cardiology liaison at (508)-887-
or email us at cardioxet@tufts.edu for scheduling and non-emergent questions or concerns.
Please visit our HeartSmart website for more information
http://vet.tufts.edu/heartsmart/
Prescription Refill Discloimer:
For the safety and well-being of our patients, your pet must have had an examination by one of our veterinarians within the p
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 f
online retailers with a prescription/seterinary approval.
Clinical Triuls:
Clinical trials are studies in which our veterinary doctors work with you and your pet to investigate a specific disease process or
promising new test or treatment. Please see our website: vet.tufts.edu/cvmc/dinical-studies
interest Property and Control of the
Case B6 Owner: B6 Discharge Instructions



# Cummings Veterinary Medical Center AT TUFTS UNIVERSITY

Cardiology Liaison: 508-887-4696

Date: 5/13/2019

**B6** 

Patient D: 439571 B6 Years Old Female (Spayed) Pit Bull

#### Cardiology Appointment Report

nding Cardiologist:	Attı
·B6	
iology Resident:	Car
B6	Γ
iology Technician:	Car
B6	
ent: B6 V*20	Stud
enting Complaint:	Pre
<del></del>	Rec
g well at home, breathing rate still pretty low, short walks again (10-15min) and doing fine, does	Doi

not appear lame in the hind.

O is not checking respiratory rate at home.

#### Concurrent Diseases:

DOM;

#### **General Medical History:**

- 3 months ago, came in through ER

#### Diet and Supplements:

Purina Pro-Plan Sensitive

#### Cardiovascular History:

Prior CHF diagnosis? Yes

Prior heart murmur? Unknown

Prior ATE? No

Prior arrhythmia? No

Monitoring respiratory rate and effort at home? Yes, high 20s-low 30s consistently, some effort; stopped monitoring in past few months, breathing better but has not been counting

Cough? No, very rarely, when drinking water

Exercise intolerance? No, haven't been doing too much exercise, 10-15 minutes walks in past month, has been doing well on those **Current Medications Pertinent to CV System:** Cardiac Physical Examination: Muscle condition: Normal Moderate cachesia Mild muscle loss Marked cacheda Cardiovascular Physical Exam: Murmur Grade: None IV√I V/VI 🗵 II/VI IIVVI Murmur location/description: -Jugular vein: Bottom 1/3 of the neck. 1/2 way up the neck Top 2/3 of the neck ■ Middle 1/3 of the neck Arterial pulses: Weak Bounding Enir Pulse deficits **☑** Good Pulsus paradoxus Other: Strong Arrhythmia: 🗏 Bradycardia None Sinus arrhythmia Tachycardia Premature beats Gallop: Yes Prenounced Other: Intermittent Pulmonary assessments: Pulmonary crackles Eupneic

Shortness of breath or difficulty breathing? No

Syncope or collapse? No Sudden onset lameness? No

<ul> <li>✓ Mild dyspnea</li> <li>✓ Marked dyspnea</li> <li>✓ Normal BV sounds</li> </ul>	<ul> <li>Wheezes</li> <li>Upper airway stridor</li> </ul>	
Abdominal exam:  Normal Hepatomegaly Abdominal distension	☐ Mild ascites ☐ Marked ascites	
<u>Problems:</u> - DCM (diet induced vs. primary) - History of CHF; - Allergies / GI disturbances		
Diagnostic plan:  ☐ Echocardiogram ☐ Chemistry profile ☐ ECG ☐ Renal profile ☐ Blood pressure	☐ Dialysis profile ☐ Thoracic radiographs ☑ NT-proBNP ☑ Troponin   ☐ Other tests:	
	36	
Mitral in flow:  Summated Normal Delayed relaxation	☐ Pseudonormal ☐ Restrictive	
<b>B6</b>		
Assessment and recommendations:		
<ul> <li>Patient improved clinically and energy level is befunction and LA size, however still lower than d</li> </ul>	<del>-</del>	-
CHF overall and improved systolic function. Blo		B6
	<b>B6</b>	
Final Diagnosis: DCM with history of L-CHF.		

<u> Heart Failure Classification Score</u> :		
ISACHC Classification:		
□ la	□ IIIa	
□ <b>b</b>	■ IIIb	
— — <b>™</b> II		
= "		
ACVIM Classification:		
A A	<b>☑</b> c	
□ B1	D	
■ 81 ■ 82	<b>ED</b>	
<b>■ 82</b>		
M-Mode		
IVSd		cm
LVIDd		cm
LVPWd		
		om .
IVSs		cm
LVDs		cm
LVPWs		cm.
EDV(Teich)		ml
ESV(Teich)		ml
EF(Teich)		%
%FS		%
SV(Teich)		ml
MaxLA		cm
Ao Diam		cm
LA Diam		cm
LA/Ao		
TAPSE		cm
EPSS		cm
2.30		
20	B6	
SALA	<b>D</b> 0	cm
Ao Diam		cm
SA LA / Ao Diam		
IVSd		cm
LVIDd		cm
LVPWd		am
EDV(Teich)		ml
IVSs		cm
LVDs		cm
LVPWs		cm
ESV(Teich)		ml
EF(Teich)		%
%FS		%
SV(Teich)		ml
LV Major		cm
LV Minor		cm
Sphericity Index		
LVLd A4C		cm
	<u>ii</u>	-411

LVEDV MOD A4C LVLs A4C LVESV MOD A4C LVEF MOD A4C SV MOD A4C

<u>Doppler</u>

MR Vmax MR maxPG

MV E Vel

MV DecT

MV Dec Slope

MV A Vel

MV E/A Ratio

E' E/E' A' IVRT AV Vmax AV maxPG PV Vmax

PV maxPG TR Vmax TR maxPG **B6** 

mi cm mi % mi

m/s mmHg m/s ms m/s m/s

m/s

m/s ms m/s mmHg m/s mmHg m/s

## **Tufts Cummings School Of Veterinary Medicine**



200 Westboro Road North Grafton, MA 01536

### **DUPLICATE**

			,,
Name/DOB:	B6		Provider: <b>B6</b>
Patient ID:	439571	Sex: SF	Order Location: V320559: Investigation into
Phone number:		Age: 5	Sample ID: 1905130113
Collection Date:	5/13/2019 1:50 PM	Species: Canine	•
Approval date:	5/13/2019 2:51 PM	Breed: Pit Bull	

Research Chemist	ry Profile	- Small Animal (Cobas)
SMACHUNSKI Glucose Urea Creatinine Phosphorus Calcium 2 Magnesium 2+ Total Protein Albumin Globulins A/G Ratio Sodium Chloride Potassium tCO2(Bicarb) AGAP NA/K Total Bilirubin Alkaline Phosphatase GGT ALT AST Creatine Kinase Cholesterol	В6	Ref. Range/Females 67-135 mg/dL 8-30 mg/dL 0.6-2.0 mg/dL 2.6-7.2 mg/dL 9.4-11.3 mg/dL 1.8-3.0 mEq/L 5.5-7.8 g/dL 2.8-4.0 g/dL 2.3-4.2 g/dL 0.7-1.6 140-150 mEq/L 106-116 mEq/L 3.7-5.4 mEq/L 14-28 mEq/L 14-28 mEq/L 8.0-19.0 29-40 0.10-0.30 mg/dL 12-127 U/L 0-10 U/L 14-86 U/L 9-54 U/L 22-422 U/L 82-355 mg/dL
Triglycerides		30-338 mg/dl
Amylase		409-1250 U/L
Osmolality (calculated)		291-315 mmol/L

Sample ID: 1905130113/1 END OF REPORT (Final)

Reviewed by: \_\_\_\_\_



## Gastrointestinal Laboratory Dr. J.M. Steiner

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

### 4474 TAMU





Website User ID: Cardiove	et@tufts.edu OR cl	inpath@tufts.edu		
GI Lab Assigned Clinic ID	: 11405			
Dr. <b>B6</b> Tufts University-Clinical Pat	<b>Phone:</b> ho <b>ု</b> တ္သွား Lab		508 887 4669 9 508 839 7936	
Attn: B6 200 Westboro Road North Grafton, MA 01536 USA	Animal Name: Owner Name:		<b>B6</b>	
	Species: Date Received:		Canine Mar 06, 2019	
		GI Lab Accessio	n: B6	
Test		Result	Control Range	Assay Date
Ultra-Sensitive Troponin I Fasting		B6	≤0.06	03/06/19
		<b>B6</b>		
Comments:				

## Important Notices:

#### **Internal Medicine Conference**

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

#### **Ongoing studies**

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

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

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

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

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

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

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

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

#### **GI Lab Contact Information**

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

Report Details - EON-	380708					
ICSR:	2063115					
Type Of Submission:	Initial					
Report Version:	FPSR.FDA.PETF.V.V1					
Type Of Report:	Adverse Event (a symptom, reaction or disease associated with the product)					
Reporting Type:	Voluntary					
Report Submission Date:	2019-02-24 17:00:13 EST					
Reported Problem:	Problem Description:	troponin pending Do owner has continued Stomach Salmon wh	nosed 2/16/19. Eating multiple BEG diets Taurine and g changed to Purina HA vegetarian dry while in hospital and d this. Will try switching to Pro Plan Sensitive Skin and nen bag of HA runs out. If she tolerates that, will stay on it. If to HA since she's done well on that.			
	Date Problem Started:	02/16/2019				
	Concurrent Medical Problem:	Yes				
	Pre Existing Conditions:	Diarrhea would deve to try to avoid this.	elop 2-3 weeks after starting a new food. Owner rotated foods			
	Outcome to Date:	Stable				
Product Information:	Product Name:	Acana, Natural Bala	nce, Petcurean (see diet history for additional details)			
	Product Type:	Pet Food				
	Lot Number:					
	Package Type:					
	Product Use Information:	December 1 10000 000 0101 110101 111010 1110 ( 110101010				
	Manufacturer /Distributor Information:					
	Purchase Location Information:					
Animal Information:	Name:	B6				
	Type Of Species:	Į				
		Terrier - Bull - American Pit				
	Gender:					
	Reproductive Status:					
		t: 18 Kilogram				
		B6 ears				
	Assessment of Prior Health:	99				
	Number of Animals Given the Product:					
	Number of Animals Reacted:					
	Owner Information:	Owner Information provided:	Yes			
		Contact:	Name: Phone: Email:			
		Address:	<b>B6</b>			
			United States			
	Healthcare Professional Information:	Practice Name:	Tufts Cummings School of Veterinary Medicine			

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

	390104					
ICSR:	2068046		***************************************			
Type Of Submission:	Followup	annian nistra annian annian ann ann ann ann ann ann	reconstituta e reconstituta e reconstituta e e e e e e e e e e e e e e e e e e e			
Report Version:	FPSR.FDA.PETF.V.V1	roaction or discoss =	secolated with th	oo product)		
Type Of Report:	Adverse Event (a symptom,	reaction of disease a	ssociated with th	ie product)		
Reporting Type:	Voluntary 2019-06-10 17:24:05 EDT					
Report Submission Date: Initial Report Date:	02/24/2019					
Parent ICSR:	2063115					
Follow-up Report to	Yes					
FDA Request:						
Reported Problem:	Problem Description:	troponin pending Dogowner has continued	g changed to Pur this. Will try swit en bag of HA rur	ating multiple BEG diets Taurine and rina HA vegetarian dry while in hospital and tching to Pro Plan Sensitive Skin and as out. If she tolerates that, will stay on it. If some well on that.		
	Date Problem Started:	02/16/2019	***************************************			
	Concurrent Medical Problem:	Yes				
		Diarrhea would develop 2-3 weeks after starting a new food. Owner rotated foods to try to avoid this.				
	Outcome to Date:	Better/Improved/Rec	overing			
Product Information:	Product Name:	Acana, Natural Balar	nce, Petcurean (s	see diet history for additional details)		
	Product Type:	Pet Food				
	Lot Number:					
	Package Type:	BAG				
	Product Use Information:			history for more info ("Natural Products" istory form is "Natural Balance"		
	Manufacturer /Distributor Information:					
	Purchase Location Information:					
Animal Information:	Name:	B6				
	Type Of Species:	Dog				
	Type Of Breed:	Terrier - Bull - Americ	can Pit			
	Gender:	Female				
	Reproductive Status:	Neutered				
	3 (	18 Kilogram				
	Age:	<b>B6</b> Years				
	Assessment of Prior Health:					
	Number of Animals Given the Product:	1				
	Number of Animals Reacted:	1				
	Owner Information:	Owner Information provided:	Yes			
		Contact:	Name:			
			Phone:	<b>B6</b>		
	]					
	1		Email:			

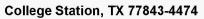
Sender Information: Name:	ncare Professional Information:	Practice Name: Contact: Address:	United States  Tufts Cummings School of Veterinary Medicine  Name: Lisa Freeman Phone: (508) 887-4523 Email: lisa.freeman@tufts.edu  200 Westboro Rd North Grafton		
	Information:	Contact:	Tufts Cummings School of Veterinary Medicine  Name: Lisa Freeman  Phone: (508) 887-4523  Email: lisa.freeman@tufts.edu  200 Westboro Rd		
	Information:	Contact:	Name: Lisa Freeman Phone: (508) 887-4523 Email: lisa freeman@tufts.edu 200 Westboro Rd		
Sender Information: Name:			Name: Lisa Freeman Phone: (508) 887-4523 Email: lisa freeman@tufts.edu 200 Westboro Rd		
Sender Information: Name:			Phone: (508) 887-4523  Email: lisa.freeman@tufts.edu  200 Westboro Rd		
Sender Information: Name:		Address:	200 Westboro Rd		
Sender Information: Name:		Address:			
Sender Information: Name:			Massachusetts 01536 United States		
		Lisa Freeman			
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States			
	Contact:	Phone:	5088874523		
		Email:	lisa.freeman@tufts.edu		
Perm	ission To Contact Sender:	Yes			
Pr	eferred Method Of Contact:	Email			
Additional Documents:					
Attacl	iment:	Diet hx 5-13-2019.pd	df		
	Description:	Diet History form			
	Туре:	Medical Records			
Attacl	iment:	Troponin 3-6-2019.p	df		
	Description:				
	Туре:	Laboratory Report			
Attacl	iment:	Follow-up records pt	2.pdf		
		Medical Records			
		: Medical Records			
Attacl	ment:	Follow-up records pt 1.pdf			
	-	Medical Records			
		Medical Records	40.00		
Attacl	ment:	Recheck chem 21 5-	13-2019.pdf		
	Description:				
	Type:	Laboratory Report			



## Gastrointestinal Laboratory Dr. J.M. Steiner

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

### 4474 TAMU





Website User ID: Cardiove	et@tufts.edu OR cli	npath@tufts.edu	1	
GI Lab Assigned Clinic ID	: 11405			
Tufts University-Clinical Pathology Lab Attn: B6 200 Westboro Road Animal Name:			508 887 4669 9 508 839 7936 <b>B6</b>	
North Grafton, MA 01536 USA	Owner Name: Species: Date Received:		Canine Mar 06, 2019	
		GI Lab Accession	on B6	
Test Ultra-Sensitive Troponin I	Fasting	Result B6	Control Range ≤0.06	Assay Date 03/06/19
Comments:				

## Important Notices:

**Internal Medicine Conference** 

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

#### **Ongoing studies**

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

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

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

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

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

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

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

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

Email: gilab@cvm.tamu.edu

vetmed.tamu.edu/gilab

#### **GI Lab Contact Information**

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



## Gastrointestinal Laboratory Dr. J.M. Steiner

## Department of Small Animal Clinical Sciences

## Texas A&M University 4474 TAMU





Website User ID: Cardiove	et@tufts.edu OR c	linpath@tufts.edu		
GI Lab Assigned Clinic ID	: 11405			
Dr. B6 Phone:			508 887 4669	
Tufts University-Clinical Pat Attn: <b>B6</b>			9 508 839 7936	
200 Westboro Road	Animal Name:		B6	
North Grafton, MA 01536 USA	Owner Name:		0	
	Species: Date Received:		Canine	
	Date Received.	<u>[</u>	Mar 06, 2019	
		GI Lab Accession	B6	
<u>Test</u>		Result	Control Range	Assay Date
Ultra-Sensitiv <u>e Troponin I</u>	Fasting	В6	≤0.06	03/06/19
		<b>B6</b>		
Comments:				

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#### **GI Lab Contact Information**

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

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

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

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

Subject: Wellness Simple Limited Ingredient Diet Grain-Free Healthy Weight Salmon & Peas Formula Dry Dog Food B6 EON-370755

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

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

2058695-report.pdf; 2058695-attachments.zip

Below is the summary of the report:

**EON Key:** EON-370755

Attachments:

ICSR #: 2058695

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

& Peas Formula Dry Dog Food; 2058695

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

#### **Product information**

**Individual Case Safety Report Number: 2058695** 

Product Group: Pet Food

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

Dry Dog Food

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

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

**Submission Type:** Initial

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

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

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

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

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

Sender in	<u>formation</u>
B6	
USA	نــــ

This amail and attached document are being provided to you in your capacity as a Commissioned Official with

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.

Demant Dataile FON	27A7EE			
Report Details - EON-	<b>370755</b> 2058695			
ICSR:	Initial			
Type Of Submission:	FPSR.FDA.PETF.V.V1			
Report Version:				
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	associated with the product)	
Reporting Type:	Voluntary			
Report Submission Date:		aantaanskaaantaanskaantaalantaantaskantaantaanta		
Reporter is the Animal Owner:	Yes			
Reported Problem:	Problem Description:	and Wellness Core I	ating Wellness Simple grain free for 3 months prior to testing Low fat Grain Free food for 3 years before that. Taurine level	
		was B6 Echo show	ved NO DCM	
	Date Problem Started:	08/0672018		
	Concurrent Medical Problem:			
	Outcome to Date:	Unknown		
Product Information:	Product Name:	Wellness Simple Lin Peas Formula Dry D	nited Ingredient Diet Grain-Free Healthy Weight Salmon & log Food	
	Product Type:	Pet Food		
	Lot Number:			
	UPC:	7634489329		
	Package Type:	BAG		
	Package Size:	24 Pound		
	Purchase Date:	05/21/2018		
	Possess Unopened Product:	No		
	Possess Opened Product:	No		
	Storage Conditions:	In original bag in cov	vered container in garage	
	Product Use	Description:	4 cups a day	
	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 Abate After Product Stop:		
		Product Use Started Again:	V4	
		Perceived Relatedness to Adverse Event:		
		Other Foods or Products Given to the Animal During This Time Period:		
	Manufacturer		Wellpet LLC	

	/Distributor Information:		_	D: ( ) _ ( _
	, Distributor information.			Distributor
				Massachusetts 01876-1274 United States
			Contact:	Office States
		Possess One or		Vas
		More La	bels from s Product:	165
	Purchase Location	Name:		Chewy.com
	Information:		Address:	United States
Animal Information:	Name:	В6		
	Type Of Species:	·		
	Type Of Breed:		- Golden	
	Gender:			
	Reproductive Status:			
		71 Pound		
		<b>B6</b> Years		
	Assessment of Prior Health:			
	Number of Animals Given the Product:	1		
	Number of Animals Reacted:	1		
	Owner Information:			
	Healthcare Professional	Practice	Name:	UC Davis
	Information:		Contact:	Name: Joshua Stern
				<b>Phone:</b> (530) 752-2475
			Address:	Davis California United States
		Ve	Type of terinarian:	Referred veterinarian
		Date First Seen: 08/14/2018		08/14/2018
			nission to Records to FDA:	No
Sender Information:	Name:	В	<u>^</u>	
	Address:	В		
		United S	tates	P
	Contact:		Email:	В6
	Reporter Wants to Remain Anonymous:	No		
	Permission To Contact Sender:	Yes		
	Preferred Method Of Contact:	Email		
	Reported to Other Parties:	None		
Additional Documents:				
	Attachment:	<b>B6</b>	urine level	pdf
		ription: Taurine results from UC Davis		
		Laborato		
	71-			

Attachment:	B6	echo.pdf
Description:	Echocardiagram	
	Echocardiogram	
туре.	_51105dralografff	

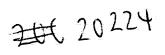


SANTA BARBARA • SANTA CRUZ

## UC VETERINARY MEDICAL CENTER-SAN DIEGO PHONE: (858) 875-7505

CARDIOLOGY FAX: (858) 875-7583 10435 SORRENTO VALLEY RD, STE 101 SAN DIEGO, CA 92121

August 23, 2018  Cardiology Report
Dr. <b>B6</b>
B6 n is a 6-year-old FS golden retriever belonging to B6 who presented to the UC Veterinary Medical Center - San Diego for a cardiac evaluation.
Cardiac Diagnosis: Normal echocardiogram.
Chief Concerns/Major History: <b>B6</b> presented for an initial cardiac examination. He is part of a Golden Retriever lifetime study. Recent bloodwork showed a low normal taurine level of under 250 B6 so it was suggested that he receive an echocardiogram. B6 is doing well at home and not showing any clinical signs of heart disease. He is eating a low fat grain free diet. B6 is currently receiving eye medication for corneal dystrophy.
Cardiology Exam:
B6
CV: I/VI left apical systolic heart murmur. Regular rhythm. Strong and synchronous pulses.
B6
Echocardiogram Subjective Findings: B6
B6
B6  Echocardiogram Objective Findings:
<b>B6</b>
Echocardiogram Objective Findings:  B6
Echocardiogram Objective Findings:  B6  B6  Assessment/Recommendations: There is no evidence of significant cardiomyopathy seen on this exam. There are trace insufficiencies of the mitral and tricuspid valves, which are hemodynamically insignificant at this time. No cardiac medications are warranted at this time.  B6
Echocardiogram Objective Findings:  B6  B6  Assessment/Recommendations: There is no evidence of significant cardiomyopathy seen on this exam. There are trace insufficiencies of the mitral and tricuspid valves, which are hemodynamically insignificant at this time. No cardiac medications are warranted at this time.  B6  B6
Echocardiogram Objective Findings:  B6  B6  Assessment/Recommendations: There is no evidence of significant cardiomyopathy seen on this exam. There are trace insufficiencies of the mitral and tricuspid valves, which are hemodynamically insignificant at this time. No cardiac medications are warranted at this time.  B6  Medications: No cardiac medications warranted at this time.  Follow-up: No recheck necessary unless signs of a heart murmur is ausculted or an arrhythmia is seen or



## **Sample Submission Form**

Amino Acid Laboratory University of California, Davis 1020 Vet Med 3B 1089 Veterinary Medicine Drive Davis, CA 95616

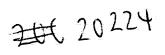
Tel: (530)752-5058, Fax: (530)752-4698

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

Vet/Tech Contact:	В6	]		
Company Name:	<u>.</u>	B6		
Address:	B6	<u> </u>	i	L .
В6				
		* Please Send re	sults to	B6
Email	В6			
Tel: B6		Fax	В6	
Billing Contact:	В6		T/	AX ID:
ı	B6		Tel:	B6
Patient Name:	В6		e-	
Species: Canine -				
Owner's Name:	B6			
Sample Type: Test Items:		hole Blood L omplete Amino Ad		ood Other:
Taurine Results (nr	moi/ml)		) s.	
Plasma:	Whole Blo	od: B6	Urine:	Food:

### Reference Ranges (nmol/ml)

		Plasma	Who	ole 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



## **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:

Vet/Tech Contact:	B6				
Company Name: Address: B	В6				
Address:	6				
B6					
		end results	to	B6	
Email:	B6	<u>_</u> h			
Tel: B6		Fax:	B6		
Billing Contact:	В6		TAX ID	<b>)</b> :	
Email: B6		Tei	: В		
Patient Name: Species: Canine - GR Owner's Name:					
	sma  Whole Blood rine  Complete Am		Food Other:_		
Taurine Results (nmol/	/ml)	2			
Plasma:	Whole Blood:	O Uri	ne:	Food	l:

### Reference Ranges (nmol/ml)

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

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

Date (mm/dd/yy)

EON/CC Number: 359,970

PATIENT INFORMATION	
Pet Name B6	
● Dog Cat	This form serves as a Uniform Data Entry Form to capture additional case
Breed Golden Retriever	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)	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.
Gender: ○ M	
HISTORY-Additional Comments from Owner	
	e study, gets a study vet appt yearly-done on <b>B6</b> he was the picture lied; the owner had heard for 2-3 months about diet and DCM/heart spaper to Di <b>B6</b> rDVM) rDVM heard a heart murmur on PF took to
Any Health Problems Prior to the Event (e.g. allergies, surgeries):	t was the best for him; always a big panter
Sensitive GI tract (e.g. stomach upset when switching foods, eats a lot of grass)	Changes to the pet's diet prior to illness Yes  Date Diet Change:
CLINICAL INFORMATIONAdditional Comments from Owner	on What Happened
Appetite Increased Decreased	Water Consumption  Increased Decreased
Vomiting Tyes	Urination 🔲 Increased 🔲 Decreased
Diarrhea 🔲 Yes	Lethargy 🗌 Yes
Duration of Diarrhea (days)	Other:
Blood in Feces Fresh, Red	
☐ Coffee Ground	
☐ Black,Tarry	
MEDICATIONS-Taken Prior to the Event and Mentioned by Ov	vner
List medications mentioned by owner (e.g. NSAIDs, steroids, heartworm/flea prevention, antibiotics, etc.)	3
List probiotics, vitamins, or supplements mentioned by owner:	

1 of 3 Continued other side

#### Follow-up Case Information Uniform Data Entry Form EON/CC Number: 359,970 **Vet-LIRN** Owner: Pet's Name: B6 B6 DIET-Any other foods the owner mentions were given to the animal during this period. (check all that apply) Commercial Dry Product Use as Part of Diet: □ Primary ☐ Secondary Occasional Zignature Lamb first fed $\sim$ 2.5-3 years ago (was on his puppy food $\sim$ 9-12 months, then tried a few List Product Label Name other dog foods before starting Zignature), 1-1.5 cups BID, measuring cup; last fed was the day he was □ Commercial Wet-Canned Product Use as Part of Diet: Primary ☐ Secondary ☐ Occasional List Product Label Name Commercial Wet-Pouch Product Use as Part of Diet: ☐ Primary ☐ Secondary Occasional List Product Label Name: Commercial-Raw Product Use as Part of Diet: Primary ☐ Secondary ☐ Occasional List Product Label Name: ☐ Homemade-Raw Product Use as Part of Diet: ☐ Primary □ Secondary Occasional Describe Product Type: Product Use as Part of Diet: ☐ Primary ☐ Secondary ☐ Occasional Describe Product Type: diluted chicken broth, vegetables (broccoli, carrots), chicken breast Table Scraps/Human Food (as an Describe Product Type(s): peanut butter in a Kong-freeze it-he'd get a Kong on a hot day, was occasional contribution to diet) Pet Treat Products Product Use as Part of Diet: Primary □ Secondary Occasional Commercial Product Label Name/Lot: Old Mother Hubbard-Peanut butter Date first fed How Product Administered: Date last fed was getting w Rawhides or Product Label Name/Lot: previous had american made Bully sticks Date first fed Pig Ears How Product Administered: hadn't had for a while Date last fed Marrow Product Label Name/Lot: Date first fed **Bones** How Product Administered: Date last fed Chicken Product Label Name/Lot: Date first fed Jerky How Product Administered: Date last fed ☐ Duck Jerky Product Label Name/Lot: Date first fed How Product Administered: Date last fed Product Label Name/Lot: Date first fed Sweet Potato Jerky or Treats How Product Administered: Date last fed

Vet-LIRN	-	ise Info	rmation Unif	orm Data Entry	Form	EON/CC Numb	er: 359,970	
Owner:	В6				Pet's Name	B6		
DIET-continu	<i>ed</i> -An	y other fo	oods the owner r	mentions were giver	n to the animal du	ring this period. (	check all that apply)	
			Product Label N	Name/Lot:			Date <u>first</u> f	ed
	] Oth	er Treats	How Product A	dministered:			Date last f	ed
			RES-Environment Theck all that app		oned by the Owne	r Potentially Affec	ting the Animal's Ov	erall State of
⊠ Ind	door		Outdoor	□ Indoor & Outdoor	☐ Carrion	Rodents	Grapes or Rais	ins 🗌 Nuts
☐ Pla	ants		Trash	☐ Hunt	☐ Pet Shows	Sporting Events	Pet Recreation	n Facilities
☐ Liv	estoc	k [	Poultry	Reptiles	Pet Birds	☐ Small Mammals	Untreated Sur	face Water
☐ An	ti-free	eze 🛭	Mushrooms	☐ Heavy Metals	▼ Ticks	Urban	☐ Suburban	Rural
Comm		supervised, fenced in backyard, went for walks, always on a harness walked or playing in the backyard; pavers and grass; lived w. B6 1 other golden; used to pull up plants in the garden when a young dog but not as he got older would go to a groomer or walked in the downtown area; periodically see little mushrooms but would pick them up, neither dog goes after them; they do landscape the yard and used pet safe ice melt; yes-go B6 nd was treated no trauma or hyperthermic, was always a big panter and drank a lot of water (his personality), no radiation or electric shock, no chemo or human pills, no alcohol, no japanese yew, foxglove, black locust, buttercup, lily of the valley, or gossypol						
HOUSEHOLD	-Sign	alment o	f Additional Anir	nals Given the Produ	uct mentioned by	the owner.		
Animal 1	l m			ver, related to B6 Iso feeding grain fre			eacted	
Animal 2	2					☐ Re	eacted	
Animal :	3					☐ Re	eacted	
Comme	nts							

3 of 3

Submit

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

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

Sent: 2/25/2019 1:05:02 PM

Subject: Wellness CORE Grain-Free Ocean Whitefish dry-Wellness Core grain free turkey: Lisa Freeman - EON-380743

Attachments: 2063134-report.pdf; 2063134-attachments.zip

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

A "PDF" report by name "2063134-report.pdf" is attached to this email notification for your reference. Please note that all documents received in the report are compressed into a zip file by name "2063134-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-380743

ICSR #: 2063134

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

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

### **Product information**

**Individual Case Safety Report Number: 2063134** 

**Product Group:** Pet Food

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

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

**Submission Type:** Initial

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

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

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

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

### **Sender information**

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

### Owner information

**B6** 

USA

To view this PFR Event, please click the link below: **B6** 

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

B6

\_\_\_\_\_

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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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-	380743					
ICSR:	2063134					
Type Of Submission:	Initial					
Report Version:	FPSR.FDA.PETF.V.V1					
Type Of Report:	Adverse Event (a symptom,	reaction or disease	associated with the product)			
Reporting Type:	Voluntary					
Report Submission Date:	2019-02-25 07:58:43 EST					
Reported Problem:	Problem Description:	DCM and CHF so so Tufts 2/1/19. ARVC/ to Royal Canin Early 3 other dogs in house	diet-induced DCM with ventric	pich was elevated. Evaluated at cular arrhythmia. Diet changed in 3 months I have diet sample.		
	Date Problem Started:	02/01/2019				
	Concurrent Medical Problem:					
	Pre Existing Conditions:	<b>B6</b> ∮pu	рру			
	Outcome to Date:	Stable				
Product Information:	Product Name:	chicken liver, and tu free in gravy chicker	rkey liver formula canned Wel	Wellness Core grain free turkey, Iness Core Hearty Cuts grain-		
	Product Type:	4				
	Lot Number:			WALL MANAGE		
	Product Use Information:	Description:	Please see diet history for months ame diets)	ore info (and refer to B6 been been been been been been been bee		
	Manufacturer /Distributor Information:		***************************************			
	Purchase Location Information:					
Animal Information:	Name:	B6				
	Type Of Species:	Dog				
	Type Of Breed:	Bulldog				
	Gender:	Male				
	Reproductive Status:	Neutered				
	Weight:	22.1 Kilogram				
	Age:	8 Years				
	Assessment of Prior Health:	Good				
	Number of Animals Given the Product:	39				
	Number of Animals Reacted:	3	33			
	Owner Information:	Owner Information provided:				
		Contact:	Name:	C		
			Phone: Email:			
		Address:	B6			
			United States			
	Healthcare Professional	Practice Name:	Tufts Cummings School of V	2.0		

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

# Cummings Veterinary Medical Center

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

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

Client:	D6
Address:	ВО
	,

Home Phone
Work Phone:
Cell Phone:

All	Medical	Records

Patient: B6
Breed: English Bulldog
DOB: B6

Species: Canine Sex: Male (Neutered)

Referring Information		
	<b>B6</b>	
Client: B6		
Initial Complaint:		
Initial Complaint:		
Initial Complaint:		
Initial Complaint:		
Initial Complaint:		

Client: Patient:	B6			
Initial Con Scanned Re				
<b>Initial Con</b> Cardiology	=	me fasted - u/f samples		
SOAP Tex	t Feb 1 2019 11:50	AM - B6		
Disposition	/Recommendations			

# Cummings Veterinary Medical Center

AT TUFTS UNIVERSITY

			Client:
Patient ID: 438225			Veterinarian:
		438225	Patient ID:
Visit ID:			Visit ID:

## Lab Results Report

## **Foster Hospital for Small Animals**

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

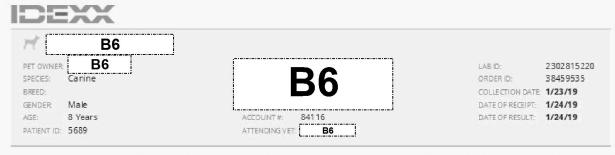
Patient:	B6
Species:	Canine
Breed:	English Bulldog
Sex:	Male (Neutered)
Age:	<b>B6</b> Years Old

		Accession ID:
Test	Results	Reference Range Units
4	4/34	B6

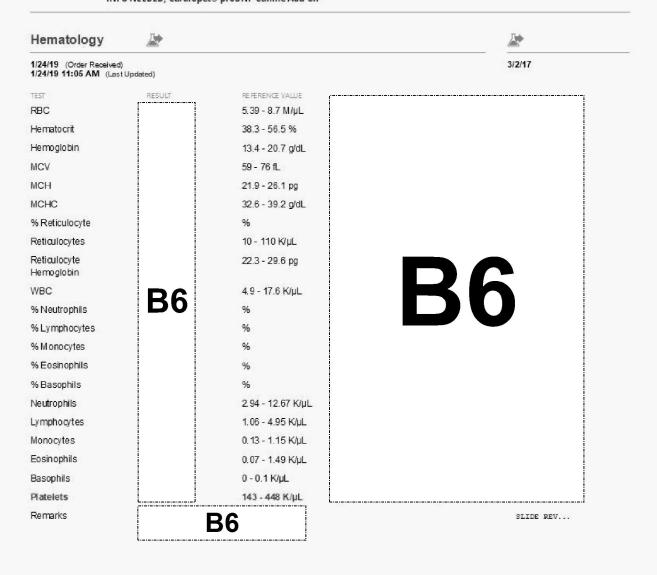
stringsoft

Printed Monday, February 25, 2019

#### IDEXX Hematology 1/24/19



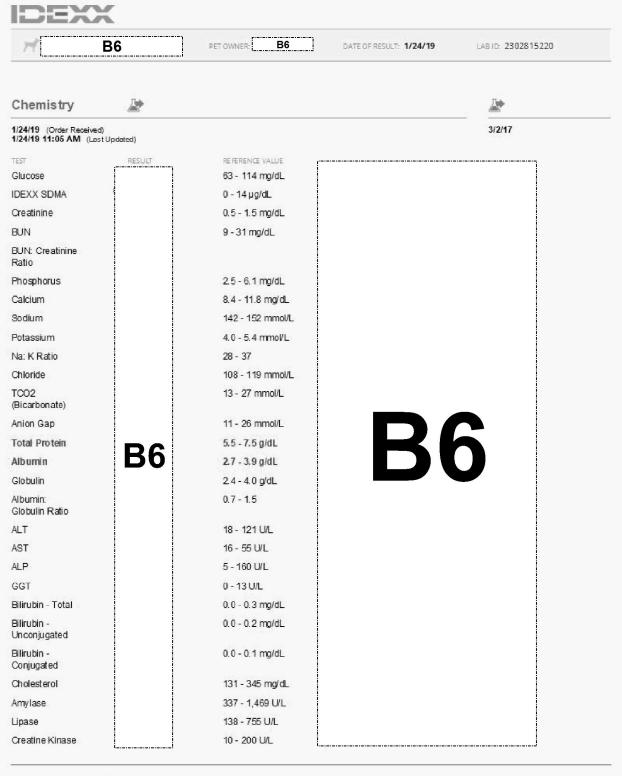
ID EXX Services: Senior Profile with Fecal Dx™ Profile, Glardia, Lab 4Dx® Plus and Reflex Quant C6® and UPC Select, SAMPLE/TEST INFO NEEDED, Cardiopet® proBNP-Canine Add-on\*



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

Page 1 of 4

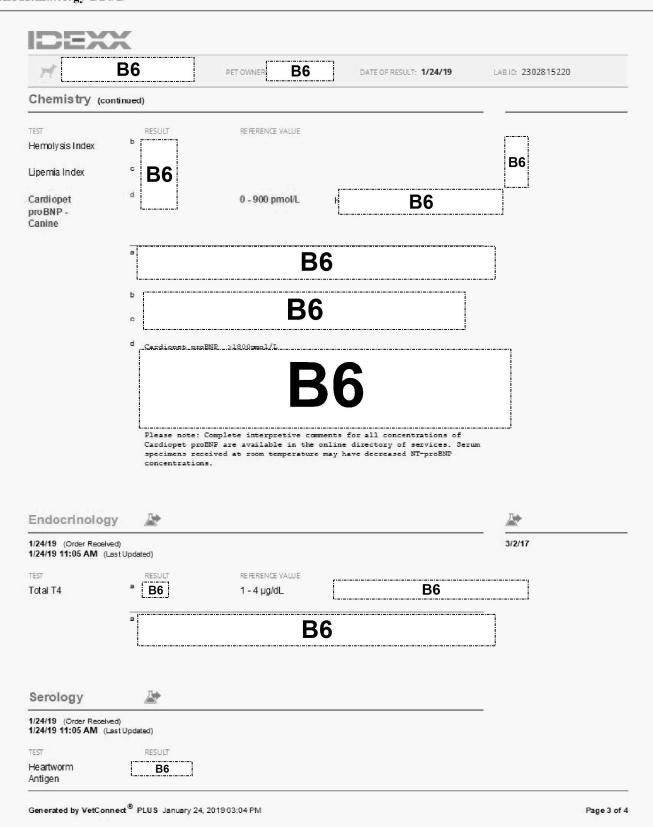
#### IDEXX Hematology 1/24/19



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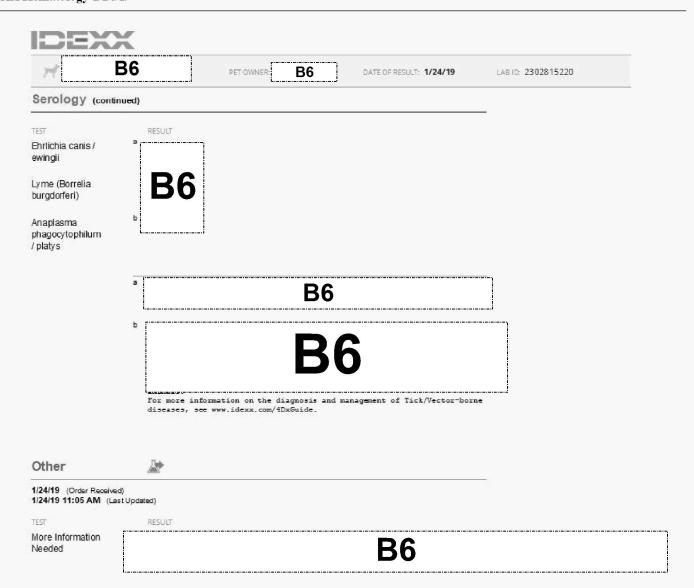
Page 2 of 4

#### IDEXX Hematology 1/24/19



Page 7/34

#### IDEXX Hematology 1/24/19



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Page 4 of 4

cbc and profile 2/1/19

#### Cummings School of Veterinary Medicine

Clinical Pathology Laboratory 200 Westboro Road North Grafton, MA 01536

ļ		
Name/DOB: B6		Provider B6
Patient ID: 438225	Sex: CM	Order Location: V320559: Investigation into
Phone number:	Age: 8	Sample ID: 1902010102
Collection Date: 2/1/2019 11:52 AM	Species: Canine	30 000 TO \$100 000 000 000 000 000 000 000 000 00
Approval date: 2/1/2019 12:57 PM	Breed:	

TEST NAME	IN RANGE	OUT OF RANGE	RANGE	UNITS	REFERENCE RANGE
CBC, Comprehensive	e, Sm Anima	l (Research)			CSTCYR
WBC (ADVIA) RBC (Advia) Hemoglobin (ADVIA) Hematocrit (Advia) MCV (ADVIA) MCH (ADVIA) CHCM MCHC (ADVIA)	В6		[*] [_*_] [_*_] [_*_] [_*_]	K/uL M/uL g/dL % fL pg g/dl g/dL	4.40-15.10 5.80-8.50 13.3-20.5 39-55 64.5-77.5 21.3-25.9 31.9-34.3
RDW (ADVIA) Platelet Count (Advia) Mean Platelet Volume (Advia)		<b>B6</b>	[_*_] [_*_]*	K/uL fl	11.9-15.2 173-486 8.29-13.20
02/01/19 12:12 PM			B6		
Platelet Crit 02/01/19 12:12 PM		B6 B6	[]*	%	0.129-0.403
PDW Reticulocyte Count (Advia) Absolute Reticulocyte Count (Advia) CHr	Bé	<b>B</b> 6	[]* []*	% % K/uL	0.20-1.60 14.7-113.7
MCVr Comments (Hematology)				pg fl	
Microscopic Exam of	Blood Smea	r (Advia)			CSTCYR
Seg Neuts (%) Lymphocytes (%) Monocytes (%) Eosinophils (%) Seg Neutrophils (Abs) Advia	B6		[*_] [*] [_*] [*_]	% % % % K/ul	43-86 7-47 1-15 0-16 2.800-11.500
Advia Lymphs (Abs) Advia Mono (Abs) Advia Eosinophils (Abs)			[*] [_*] [*_]	K/uL K/uL K/uL	1.00-4.80 0.10-1.50 0.00-1.40
mple ID: 1902010102/1				Revie	wedby:

cbc and profile 2/1/19

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

Clinical Pathology Laboratory 200 Westboro Road North Grafton, MA 01536

,		
Name/DOB: B6		Provider B6
Patient ID: 438225	Sex: CM	Order Location: V320559: Investigation into
Phone number:	Age: 8	Sample ID: 1902010102
Collection Date: 2/1/2019 11:52 AM	Species: Canine	
Approval date: 2/1/2019 12:57 PM	Breed:	

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

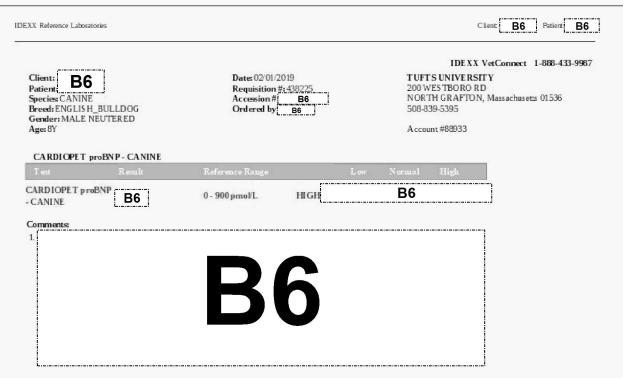
Advia
WB C Morphology
RB C Morphology

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

 Sample ID: 19020101022
 Reviewed by: \_\_\_\_\_\_

 END OF REPORT (Final)
 Page 2

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



#### CBC/CHEM



#### Tufts Cummings School Of Veterinary Medicine

200 Westboro Road North Grafton, MA 01536

#### DUPLICATE

Name/DOB: B6		Provider. B6
Patient ID: 438225	Sex: CM	Order Location: V320559: Investigation into
Phone number:	Age: 8	Sample ID: 1902010102
Collection Date: 2/1/2019 11:52 AM	Species: Canine	50 to 10 - 10 to 1
Approval date: 2/1/2019 12:57 PM	Breed:	

CSTCYR		Ref. Range/Male
WBC (ADVIA)		4.40-15.10 K/u
RBC (Advia)		5.80-8.50 M/u
Hemoglobin (ADVIA)	į	13.3-20.5 g/d
Hematocrit (Advia)		39-55
MCV (ADVIA)	<b>D</b> 0	64.5-77.5 f
MCH (ADVIA)	<b>B6</b>	21.3-25.9 p
CHCM		F
MCHC (ADVIA)		31.9-34.3 g/d
RDW (ADVIA)		11.9-15.
Platelet Count (Advia) H		173-486 K/u
Mean Platelet Volume	į	8.29-13.20
(Advia)		
02/01/19 12:12 PM	B6	
Platelet Crit H	B6	0.129-0.403
02/01/19 12:12 PM	<b>B6</b>	
PDW		
Reticulocyte Count (Advia) H		0.20-1.60
Absolute Reticulocyte H		14.7-113.7 K/u
Count (Advia)	<b>B6</b>	
CHr		
MCVr		
Comments (Hematology)	L	
Microscopic Exam of CSTCYR	Blood Smear (Advia)	D. ( D
	<u> </u>	Ref. Range/Mal
Seg Neuts (%)		43-86
Lymphocytes (%)		7-47° 1-15°
Monocytes (%)		0-16°
Eosinophils (%) Seg Neutrophils (Abs)		2.800-11.500 K/s
Advia	<b>B6</b>	
Lymphs (Abs) Advia		1.00-4.80 K/u
Mono (Abs) Advia		0.10-1.50 K/u
Eosinophils (Abs) Advia WBC Morphology RBC Morphology		0.00-1.40 K/s

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

#### CBC/CHEM



#### Tufts Cummings School Of Veterinary Medicine

200 Westboro Road North Grafton, MA 01536

#### DUPLICATE

			·
Name/DOB:	В6		Provider B6
Patient ID:	438225	Sex: CM	Order Location: V320559: Investigation into
Phone number:		Age: 8	Sample ID: 1902010102
Collection Date:	2/1/2019 11:52 AM	Species: Canine	30 00 10 P 100 P 1
Approval date:	2/1/2019 12:57 PM	Breed:	

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

Sample ID: 1902010102/2

Osmolality (calculated)

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

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

291-315 mmol/L

#### Taurine level

plo 27291 WBB

#### Am

Amino Acid Laboratory Sample Submission Fe	orm
Amino Acid Laboratory, 1089 Veterinary Medicine Drive, Dav	is, Ca 95616
Telephone: 530-752-5058, Fax: 530-752-4698	
Email: ucd.aminoacid.lab@ucdavis.edu	
www.vetmed.ucdavis.edu/labs/amino-acid-laboratory	
	<u> </u>
Veterinarian Contact: B6	

L	
Clinic/Company Name: Tufts Cummings School of	Vet. Med Clinical Pathology Laboratory
Address: 200 Westboro Road, North Grafton MA 019	5369
Email: Clinpath@tufts.edu cardiovet@t	ufts.edu
Telephone:508-887-4669	Fax:508-839-7936
Billing Contact: B6	Email:
Billing Contact Phone: B6	Tax ID:
Patient Name: B6	Species: CANINE
Breed: Fnglish Bulldog	L
Current Diet: Wellness Core	
Sample type: Plasma Whole Blood U	rine Food Other
Test: Taurine Complete Amino Acids	Other:
Taurine Results (lab use only)	
Plasm B6 _ Whole Blood: B6 _	Urine: Food:

	Plasma (nMol/ml)		Whole Blood (nMol/r	
	Normal Range	No known risk for deficiency	Normal Range	No known risk for deficiency
Cat	80-120	>40	300-600	>200
Dog	60-120	>40	200-350	>150

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

#### Diet history 2/1/19

Owner's name  or  change in your pet's appetite over  change in your pet's appetite?  change in your pet's appetite?  change in your pet's appetite over  change in your pet's	er the last 1-2 weeks? less than usual er the same weight  snack, dental chews, duct, and flavor so we	Exc Check all that a Eats more than  Don't know rawhides, and a know exactly we	ellent epply) n usual eny other food ite	s appetite) m that your pet
change in your pet's appetite over the amount as usual the state of the change in your pet (sheck one). Sained weight Stayed about the pet foods, people food, treats, se include the brand, specific province in the table – please provide en	er the last 1-2 weeks? less than usual er the same weight  snack, dental chews, duct, and flavor so we nough detail that we co	Exc Check all that a Eats more than  Don't know rawhides, and a know exactly we	ellent epply) n usual eny other food ite	m that your pet
change in your pet's appetite over the amount as usual the state of the change in your pet (sheck one). Sained weight Stayed about the pet foods, people food, treats, se include the brand, specific province in the table – please provide en	er the last 1-2 weeks? less than usual er the same weight  snack, dental chews, duct, and flavor so we nough detail that we co	Exc Check all that a Eats more that Con't know rawhides, and a know exactly w	ellent epply) n usual eny other food ite	m that your pet
change in your pet's appetite over the amount as usual leats different foods than usual lother eeks, has your pet (check one). Sained weight stayed about le pet foods, people food, treats, se include the brand, specific provint in the table – please provide en	the same weight  snack, dental chews, oduct, and flavor so we nough detail that we constant that we constant that the co	Check all that a Deats more than Don't know rawhides, and a know exactly w	apply) n usual any other food ite what you pet is ea	iting.
me amount as usual	the same weight  snack, dental chews, oduct, and flavor so we nough detail that we constant that we constant that the co	Don't know rawhides, and a	n usual  any other food ite  hat you pet is ea	iting.
Sained weight Stayed about  L pet foods, people food, treats, se include the brand, specific pro	snack, dental chews, duct, and flavor so we nough detail that we c	rawhides, and a e know exactly w	hat you pet is ea	iting.
se include the brand, specific pro	nduct, and flavor so we	e know exactly w	hat you pet is ea	iting.
		ould go to the si	ore and buy the	
specific product and flavor)	-	• 225		
biology Lantil & Council Datata A.	Form	Amount	How often?	Fed since
hicken, Lentil, & Sweet Potato Ad er		1 ½ cup	2x/day	Jan 2018
	microwaved	3 oz	1x/week	Jan 2015
deer navor				Aug 2015
2 Can Od Cl 1/1/2			1x/week	Dec 2015
	974			Dec 2015
413N		74 (OD	2x/day	Dec 2015
€	trat	Spcs.	1x day	1 (
DC				
B0 —				
EVACT BRADIST				
			-	
TORNOLOS				
information can be listed on the	back of this sheet			
Yes No If yes, please list Bra Yes No Yes No	which ones and give	lucosamine, fatty brands and amo	ounts:	her unt per day
□Yes □No				
□Yes □No				
□Yes □No				A 3 8
	Nature's Bounty		500 mg table	ts – 1 per day
t	etary supplements to your pet (for Yes No If yes, please list  Bra  Yes No  Yes No  Yes No  Yes No  Yes No  Yes No	B6  Crac Same a church weth the first treat weth the first treat that the first treat the first treat treat the first treat tr	B6  Crac Brand  tinformation can be listed on the back of this sheet  etary supplements to your pet (for example: vitamins, glucosamine, fatty  Brand/Concentration  Gres No  Gres No	B6  B6  Complete Charles  B6  Complete Charles  Treat  Complete Charles  Treat  Complete Charles  Treat  Complete Charles  Treat  Treat

#### Troponin 2/1/19



Comments:

# 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: clinpath@tufts.edu GI Lab Assigned Clinic ID: 11405 508 887 4669 Dr. Freeman Phone: Tufts University-Clinical Pathology Lab 9 508 839 7936 Attn: В6 Animal Name: 200 Westboro Road **B6** North Grafton, MA 01536 Owner Name: USA Species: Canine Feb 12, 2019 Date Received: GI Lab Accession: **B6** Test Result Control Range Assay Date Ultra-Sensitive Troponin I Fasting В6 ≤0.06 02/12/19

#### Troponin 2/1/19

Important Notices: Internal Medicine Conference

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

#### Ongoing studies

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

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

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

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

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

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

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

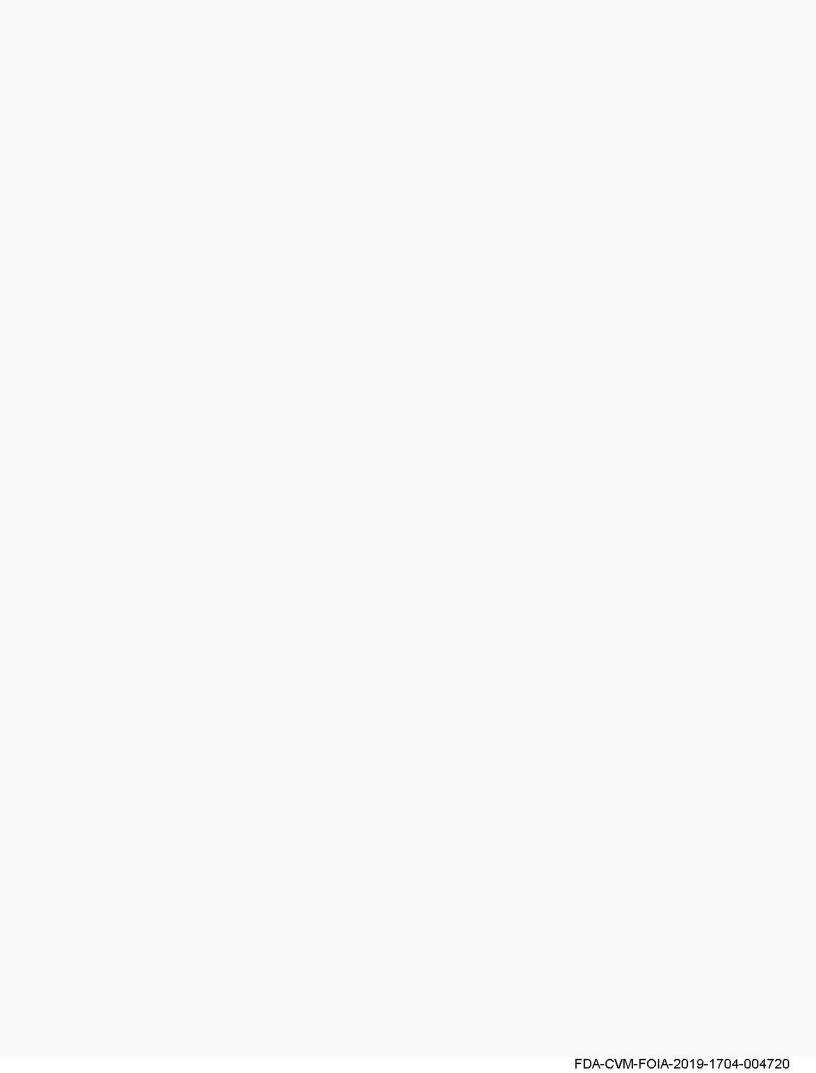
Use our preprinted shipping labels to save on shipping. Call 979-862-2861 for assistance. The GI Lab is not here to accept packages on the weekend. Samples may be compromised if you ship for arrival on Saturday or Sunday or if shipped via US Mail.

GI Lab Contact Information

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

X 7:4 - 1	. D		14.
Vital	sк	esu.	ITS

vitais Results		
2/1/2019 11:00:04 AM	Weight (kg)	<b>B6</b>
Patient History		
01/28/2019 03:52 PM	Appointment	
02/01/2019 08:05 AM	UserForm	
02/01/2019 08:05 AM	UserForm	
02/01/2019 10:37 AM	UserForm	
02/01/2019 10:38 AM	UserForm	
02/01/2019 10:44 AM	Purchase	
02/01/2019 11:00 AM	Vitals	
02/01/2019 12:03 PM	UserForm	<b>B6</b>
02/01/2019 12:50 PM	Appointment	
02/01/2019 12:58 PM	Prescription	
02/20/2019 12:08 PM	Patient Merge	
02/21/2019 04:32 PM	Purchase	
02/21/2019 04:32 PM	Purchase	
		i i





B6
Male(Neutered)
Canine English Bulldog Brown/White
Patient ID:438225

#### STANDARD CONSENT FORM

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

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

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

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

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

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

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

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

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

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

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

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

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

Owner's name:	B6	Date: 2/1/2019	
Owner's address	K	B6	
	36		10 - 19

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

The owner of the animal owner to pay the veterinar described above		has granted me authority to obtain medical treatment and to bind thi ices provided at Cummings School pursuant to the terms and conditions
Authorized Agent - Please R	<b>Print</b>	Agent's Signature
Street Address		Date
Town/City Sta	te	<u></u>



Patient ID: 438225

B6 Canine

B6 Years Old Male (Neutered) English
Bulldog

Body Weight: Weight (kg) 0.00

### Brachycephalic Consent Form Anesthesia, Sedation and Hospitalization

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

#### Overview

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

#### Respiratory problems

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

#### Cooling problems

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

#### Stomach and intestinal problems

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

#### Restraint challenges

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

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

#### Sedation and anesthesia

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

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

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

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

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

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

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

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

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

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

-√ <b>y</b> YES	■NO	
X		
My pet has demo	instrated difficulty eating, such as gaggi	ng, vomiting, and regurgitation.
YES YES	√NO	
	$\wedge$	
My pet is receivin	ig or has recently received a non-steroid	dal anti-inflammatory drug (e.g., Rimadyl
<b>YES</b>	₩NO	
Your signature in	dicates that you have read and understa	and the above information and give your
consent for treat		
Owner signature	<b>B6</b>	
	DU	
Date: 2/1/2019		
Duc. 44201		

# Cummings Veterinary Medical Center

Cardiology Liaison: 508-887-4696

D-Ji---

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

#### Discharge Instructions

The Post !		B6	Patient ID: 438225
Name B6	Name:		**************************************
Species: Canine	Address	B6	
Brown/White Male (Neutered) English		ь	
Buildog	I		<del>.</del>
<b>Birthdate:</b> B6			
<b>L</b>			
Attending Cardiologist:			
John E. Rush DVM, MS, DACVIM (	Cardiolomá D	ACUEOC	
JUNIE MENTOVINI, INS, DACVINI	Carming After		
<b>B6</b>			
DO			
Cardiology Resident:			
	B6		
Cardiology Technician:			<del>-</del>
		]	
<b>B6</b>		į	
DU			
<u> </u>			
Veterinary II utritionist : Dr. Lisa Free	man .		
Student: B6 V19			
<u> </u>			
Admit Date: 2/1/2019 10:36:11 AM			
Discharge Date: 2/1/2019			
•			
Diagnoses: Arrhythmogenic right ventrict	dar cardioman	nathu (ADM) with mada	acheight koort andersamment vandries be
premature depolarizations, and left ventri	-		
premature depotarzations, and lest venius	ouar dysiurio	art basspisanubarerr	oi diesrealed cardiomyopatriy
<b>Clinical findings:</b> B6 has been diagnos			
cardiomyopathy (ARVC). This disease is on			
muscle by fat and/or scartissue which ma	y result in serio	ous ventricular arrhythmi	ias (abnormal heart rhythms originating
from the lower chamber of the heart), car	diacenlargem	ent and congestive heart	failure, or both. Dogs with ARVC may
experience syncope (fainting) or sudden d			
changes in the heart muscle, we can conti		-	_
The following diagnostic test results were			<del></del>
THE WINNIE AND IDOR REPLECTING MAGE	للاللا للكا الكلالا		

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

and tricuspid valve regurgitation. The hepatic veins are markedly distended.

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

Echocardiogram findings: The right ventricle is moderate to markedly enlarged. The left ventricle is mildly dilated with the left ventricular free wall thinned. There is reduced vigor of contraction of the left ventricle. The left atrium is mildly to oderately enlarged. There is some mitral

option of purchasing the Kardia Mobile device which will allow you to monitor the heart rate and rhythm at home (www.alivecor.com). If you have any concerns, please call or have your dog evaluated by a veterinarian. Our emergency clinic is open 24 hours/day.  B6 may also benefit from wearing a Holter EKG, which is a harnessed EKG that he would wear for 24 hours. We can place that here, and send him home for the 24 hours duration. He would then return here the next day where we can		
remove the Holter and analyze his heart rythmn to fully assess his arrhythmia. Call if you decide to do this test.  Recommended Medications:		
<b>B6</b>		
NEXT DOSE DUE: You can start B6 at any time.		
Diet suggestions: Dogs with ARVC may benefit from the addition of omega-3 fatty acids (fish oil) to the diet. Diets such as the Royal Carnin Boxer or Early Cardiac diet, or Hill's j/d have ample fish oil and may not require much (or any) additional supplementation. Additional information on supplements such as fish oil or other supplements that you might have questions about may be found on the Tufts HeartSmart web site: (http://vet.tufts.edu/heartsmart/diet/).		
<ul> <li>The FDA is currently investigating an apparent association between diet and a type of heart disease called dilated cardiomyopathy. The exact cause is still unclear, but it appears to be associated with boutique diets and those containing exotic ingredient or are grain-free. Therefore, we are currently recommending that dogs do not eat these types of diets.</li> <li>Werecommend switching B6 in commercial diet made by a well-established company that is not grain-free and does not contain any exotic ingredients, such as langaroo, duck, lamb, venison, lentils, peas, beans, buffalo, tapioca, barley, and chickpeas.</li> <li>The FDA issued a statement regarding this issue (https://www.fda.gov/AnimalVeterinary/NewsEvents/CVMUpdates/uom613305.htm) and a recent article published by Dr. Lisa Freeman on the Currmings School's Petioodology blog can further explain these findings (http://vetnutrition.tufls.edu/2018/06/a-broken-heart-risk-of-heart-disease-in-boutique-or-grain-free-diets-and-exotic-ingredients/).</li> <li>Our nutritionists have compiled a list of dog foods that are good options for dogs with heart disease.</li> </ul>		
Dry Food Options:  Royal Carnin Early Cardiac (veterinary diet)		
Royal Canin Boxer		
Purina Pro Plan Adult Weight Management Purina Pro Plan Bright Mind Adult Small Breed Formula		
Canned Food Options:		
Hill's Science Diet Adult Beef and Barley Entree Hill's Science Diet Adult 1-6 Healthy Cuisine Roasted Chicken, Carrot, and Spinach Stew		
Royal Canin Mature 8+		
We recommend slowly introducing one of the diets on the above list as follows: 25% of the new diet mixed with 75% old diet for 2-3 days, then 50:50, etc. Hopefully you can find a diet on the list that $B6$ will enjoy!		
If your dog has special nutritional needs or requires a homecooked diet, we recommend you schedule an appointment with our nutritionists (508-887-4696).		
Discreise recommendations: Generally we recommend limited activity for dogs with heart disease - Leash walk only is ideal. Repetitive or strenuous high energy activities (repetitive ball chasing, running fast off-leash, etc.) are not recommended as these activities may result in worsened arrhythmia or even sudden death.		
Retherh visits: Wewmald like to retherk: D.C. in 3 months at which point we can discuss additional medications and		

treatments as needed (: purchase the AliveCora			-	ammend recheck E	:CGs every3mon	ths, or you can
Thank you for entrusting cardiovet@tults.edu fo	r scheduling	and non-emerg	ent questions o		at (508)-887-4690	i or email us at
Please visit our HeartSm	<b>art website</b> 1	for more inform	ation			
Please visit our HeartSm	art website	for more inform	ation			
http://vet.tufts.edu/hes	<u>irtsmart/</u>					
Prescription Refill Discloid For the safety and well-b year in order to obtain pre	eing of our p		must have had a	on examination by	one of our vetering	rions within the post
Ordering Food: Please check with your p please call 7-10 days in a online retailers with a pre	dvance (508-	887-4629) to ens				
Clinical Trials: Clinical trials are studies promising new test or tre						disease process or a
Case	В6	Owner.	В6	Discharge	Instructions	

# **Cummings** Veterinary Medical Center

AT TUFTS UNIVERSITY Cardiology Liaison: 508-887-4696

Prior heart murmur? N

Prior ATE? N

**B6** 

Patient ID: 4382.75

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

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

Date: 2/1/2019
Attending Cardiologist:
■ John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC
B6
Cardiology Resident:
B6
Cardiology Technician:
- <b>B6</b>
Student B6 V19
Presenting Complaint: Here for possible entry to DCM study. Half-sister B6 came in last month for CHF. B6 had high proBNP on bloodwork B6
Concurrent Diseases: Anaplasmosis(+) on IDEXX panel. History of B6 rauma when young.
General Medical History:
<b>B6</b>
Fasted today. Had reason for concern of DCM based on diet and sister, came in based on NTproBNP level.
<u>Diet and Supplements</u> : Grain free diet-Wellness Core. Chicken and Turkey wet food 4oz BID. Fish dry food 1/4 cup BID. No supplements or treats.
Cardiovascular History: Prior CHF diagnosis? N

Prior arrhythmia?N  Monitoring respiratory rate and effort at hom 20-30 at rest.  Cough? N  Shortness of breath or difficulty breathing? So Syncope or collapse? N  Sudden onset lameness? N  Exercise intolerance? N- Normally low energy.  Current Medications Pertinent to CV System: Medication: B6  Administration Frequency: B6  Need refills? N  Cardiac Physical Examination:	-
	<b>B6</b>
Muscle condition:	
☑ Normal ☑ Mild muscle loss	Moderate cachesia Marked cachesia
Cardiovascular Physical Exam:  Murmur Grade:  None  I/VI  II/VI  III/VI	□ rv/vr □ v/vr □ vv/vr
Murmur location/description:	
Jugular vein:  Bottom 1/3 of the neck  Middle 1/3 of the neck	1/2 way up theneck Top 2/3 of theneck
Arterial pulses:  Weak - obese and difficult to palpate Fair Good Strong	Bounding Pulse deficits Pulsus paradious Other:
Arrhythmia: None Sinus arrhythmia Premature beats infrequent	Bradycardia Tachycardia
Gallop:  Yes	Pronounced

✓ No ✓ Intermittent	Other:
Pulmonary assessments:  Eupneic  Mild dyspnea  Marked dyspnea  Normal BV sounds	☐ Pulmonary crackles ☐ Wheezes ☑ Upper airway stridor ☐ Upper airway stridor ☐ Pulmonary crackles ☐ Wheezes
Abdominal exam:  Mormal Hepatomegaly Abdominal distension mostly adipose tissue?	■ Mild ascites ■ Marked ascites
<u>Problems</u> : Related dog with DCM Has a high NT-proBNP	
<u>Differential Diagnoses</u> : DCM vs other	
Diagnostic plan:  ■ Echocardiogram ■ Chemistry profile ■ ECG ■ Renal profile ■ Blood pressure	<ul> <li>□ Dialysis profile</li> <li>□ Thoracic radiographs</li> <li>☑ NT-proBNP</li> <li>☑ Troponin I</li> <li>☑ Other tests: Study bloodwork</li> </ul>
Echocardiogram Findings: General/2-D findings	B6
	B6
Doppler findings B6	
Mitral inflow:  Summated  Normal  Delayed relaxation	Pseudonormal Restrictive
ECG findings:	В6
have a component of diet-related cardiomyop:	rent LV dysfunction which is either related to ARVC or could athy. There was not enough arrhythmia seen today to clearly olter monitor could be performed for a better assessment d be evaluated serially
	B6

🔳 IIIa

#### **Final Diagnosis:**

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

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

ISACHC Classification:

la la **☑** lb

IIIb

**ACVIM Classification:** 

■ A

C ■ B1 

**■** B2

M-Mode

**IVSd** 

LVIDd

LVPWd

**IVSs** 

**LVIDs** 

**LVPWs** 

EDV(Teich)

ESV(Teich)

EF(Teich)

%FS

SV(Teich)

Ao Diam

LA Diam

LA/Ao

Max LA

TAPSE

#### M-Mode Normalized

**IVSdN** 

LVIDdN

LVPWdN

**IVS**sN

**LVIDsN** 

LVPWsN

Ao Diam N

LA Diam N

cm cm

cm

cm cm

cm ml

ml

% %

ml cm

cm

cm cm

(0.290 - 0.520) !

 $\{1.350 - 1.730\}$ 

 $\{0.330 - 0.530\}$ 

 $\{0.430 - 0.710\}$ 

 $\{0.790 - 1.140\}$ 

(0.530 - 0.780)!

 $\{0.680 - 0.890\}$ !

 $\{0.640 - 0.900\}$ !

2D

**SALA** cm Ao Diam cm SALA / Ao Diam IVSd cm LVIDd cm LVPWd cm EDV(Teich) ml IVSs cm LVIDs. cm **LVPWs** cm ESV(Teich) ml EF(Teich) % %FS % SV(Teich) ml **LV Major** cm LV Minor cm **Sphericity Index LVLd LAX** cm **LVAJ LAX** cm LVEDV A-L LAX ml **LVEDV MOD LAX** ml **LVLs LAX** cm LVAs LAX cm **LVESV A-L LAX** ml **B6 LVESV MOD LAX** ml HR **BPM** % **EF A-L LAX** % **LVEF MOD LAX** SV A-L LAX ml SV MOD LAX ml CO A-L LAX l/min CO MOD LAX l/min Doppler MR Vmax m/s MR maxPG mmHg MV EVel m/s MV DecT ms MV Dec Slope m/s MV A Vel m/s MV E/A Ratio E' m/s E/E' A. m/s S' m/s **AV Vmax** m/s AV maxPG mmHg **PV Vmax** m/s PV maxPG mmHg TR Vmax m/s

# Cummings Veterinary Medical Center



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

В6	Male (Neutered
Canine B	nglish Bulldog
Brown/W	/hite
4382.75	

2/12/2019

Dear B6			
Thank you for referring	В6	with their pet	В6

If you have any questions, or concerns, please contact us at 508-887-4988.

Thank you,

John Rush DVM, DACVIM (Cardiology), DACVECC

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

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

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

Freeman - EON-380742

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

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

A "PDF" report by name "2063133-report.pdf" is attached to this email notification for your reference. Please note that all documents received in the report are compressed into a zip file by name "2063133-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-380742

ICSR #: 2063133

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

AE Date	01/15/2019	Number Fed/Exposed	6
Best By Date		Number Reacted	3
Animal Species	Dog	Outcome to Date	Stable
Breed	Bulldog		
Age	B6 Years		
District Involved	PFR-New England DO		

#### **Product information**

**Individual Case Safety Report Number: 2063133** 

Product Group: Pet Food

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

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

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

**Submission Type:** Initial

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

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

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

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

#### **Sender information**

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

#### **Owner information**

**B6** 

USA

To view this PFR Event, please click the link below: **B6** 

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

В6

**B6** 

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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through your local district FDA office.

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Report Details - EON-	380742			
ICSR:	2063133			
Type Of Submission:	Initial			
Report Version:	FPSR.FDA.PETF.V.V1			
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	associated with the product)	
Reporting Type:	Voluntary			
Report Submission Date:	2019-02-25 07:43:42 EST			
Reported Problem:	Problem Description:	far, 3 have been diag proBNP and 2 others	nosed 1/15/19 Eating BEG diet. 6 dogs being gnosed with DCM/ARVC. One other had a s will be tested Diet has been changed to F recheck in 3 months. I have sample of dry	normal NT- Royal Canin Early
	Date Problem Started:	: 01/15/2019		
	Concurrent Medical Problem:			
	Pre Existing Conditions:	s: Anxiety - takes fluoxetine		
	Outcome to Date:			
Product Information:	Product Name:		-free ocean fish dry Wellness core grain fre anned Wellness Hearty Cuts grain-free in g	
	Product Type:	<u> </u>		
	Lot Number:	7		
	Product Use	Description:	Please see diet history	
	Information:	Dood i piloti i i i oddo doo dii o i ii oo o o		
	Manufacturer /Distributor Information:			
	Purchase Location Information:	**************************************		
Animal Information:	Name:	B6		
	Type Of Species:	Dog		
	Type Of Breed:	: Bulldog		
	Gender:	: Female		
	Reproductive Status:	; Neutered		
		t: 19.8 Kilogram		
	Age:	B6 Years		
	Number of Animals Given the Product:	6		
	Number of Animals Reacted:	3		
	Owner Information:	Owner Information provided:		
		Contact:	Name: Phone Email	
		Address:	B6	
			United States	
	Healthcare Professional Information:	Practice Name:	Tuffs Cummings School of Votorings Ma	dicine
			Tufts Cummings School of Veterinary Med	aidifle
		Contact:	\$ Example 1 of the control of the co	
			Phone: (508) 887-4523	
			Email: lisa.freeman@tufts.edu	

		Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States
Sender Information:	Name:	Lisa Freeman	
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States	
	Contact:	Phone:	5088874523
		Email:	lisa.freeman@tufts.edu
	Permission To Contact Sender:	Yes	
Preferred Method Conta		Email	
Additional Documents:			
	Attachment:	rpt_medical_record_preview.pdf	
	Description:	: Med records	
	Type:	: Medical Records	

From: Freeman, Lisa <lisa.freeman@t 4:36:23="" b6="" b6<="" peloquin,="" pm="" re:="" sarah="" sent:="" subject:="" th="" to:=""><th>ıfts.edu&gt;</th></lisa.freeman@t>	ıfts.edu>
Thanks!! Lisa	
Sent from my iPhone	
Or <b>B6</b> at 8:49 AM, Peloquin, Sarah < Sarah.P	eloquin@fda.hhs.gov> wrote:
Hi Lisa,	
The tissues can be collected in the same way as B6 tissues until next week, and we could send the boxes	(formalin and frozen). Then the vet should hold the to him then.
I'll email him to clarify as well.	
Thanks! Sarah	
Sarah Peloquin, DVM Veterinary Medical Officer tel: 240-402-1218	
From: Freeman, Lisa < Lisa.Freeman@tufts.edu > Sent: B6 10:01 AM To: Peloquin, Sarah < Sarah.Peloquin@fda.hhs.gov > Cc: Jones, Jennifer L < Jennifer.Jones@fda.hhs.gov >; Subject: RE: B6	Guag, Jake < <u>Jake.Guag@fda.hhs.gov</u> >
Hi Sarah Just to clarify – all of the tissue in the freezer or some Thanks Lisa	n the freezer and some in formalin?
From: Peloquin, Sarah < <u>Sarah.Peloquin@fda.hhs.gov</u> Sent: B6 3:56 AM To: Freeman, Lisa < <u>Lisa.Freeman@tufts.edu</u> > Cc: Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> >; Subject: RE: B6	
Yes, -20 degrees should be fine.	
Thanks, Lisa! Sarah	
Sarah Peloquin, DVM Veterinary Medical Officer tel: 240-402-1218	
From: Freeman, Lisa < Lisa Freeman@tufts.edu > Sent: B6 3:54 AM To: Peloquin, Sarah < Sarah.Peloquin@fda.hhs.gov >	

Cc: Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> >; Guag, Jake < <u>Jake.Guag@fda.hhs.gov</u> > Subject: RE: <u>B6</u>
Hi Sarah Can they be frozen at -20? I'm sure the primary care vet doesn't have a -80 freezer Thanks Lisa
From: Peloquin, Sarah < <u>Sarah.Peloquin@fda.hhs.gov</u> > Sent: B6 9:51 AM To: Freeman, Lisa < <u>Lisa.Freeman@tufts.edu</u> > Cc: Jones, Jennifer L < <u>Jennifer.Jones@fda.hhs.gov</u> >; Guag, Jake < <u>Jake.Guag@fda.hhs.gov</u> > Subject: RE: B6
Hi Lisa!
I hope you've been well. Jake also forwarded your email to me—thank you for following up with us.
If possible, the body and/or samples could be held frozen until next week. I'll discuss with Jen when she gets back, since I'm unsure where we are with our post-mortem samples. I'll make sure we follow up with you.
Thanks again, and have a great weekend! Sarah
Sarah Peloquin, DVM Veterinary Medical Officer tel: 240-402-1218
From: Freeman, Lisa <lisa.freeman@tufts.edu> Sent B6 9:26 AM To: Peloquin, Sarah <sarah.peloquin@fda.hhs.gov> Subject: FW: B6</sarah.peloquin@fda.hhs.gov></lisa.freeman@tufts.edu>
Dear Sarah Got an out of office message from Jennifer so updating you so you can hopefully help to facilitate Thanks Lisa
From: Tufts Veterinary Clinical Nutrition Service  Sent: B6 9:09 AM  To: Jones, Jennifer L < Jennifer. Jones@fda.hhs.gov >; Guag, Jake < Jake. Guag@fda.hhs.gov >  Cc B6 @tufts.edu >  Subject: B6
Dear Jennifer and Jake I just heard from B6 the primary care vet for B6 She is the dog from the household in which at least 3 dogs were affected with diet-associated DCM. This was the first case from the household which was identified when she came in for congestive heart failure.
The owners contacted him and said they will be bringing her in today to be euthanized for worsening heart failure. He's volunteered to get heart and liver samples as he did from B6 Jake – could you send him shipping materials? His email is
<b>B6</b>
Thanks very much

Lisa

FDA-CVM-FOIA-2019-1704-004742

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

From:	PFR Event <pfreventcreation@fda.hhs.gov></pfreventcreation@fda.hhs.gov>
То:	Cleary, Michael *; HQ Pet Food Report Notification; B6
Sent:	2/25/2019 1:20:54 PM
Subject:	Wellness CORE Grain-Free Ocean Whitefish dry-Wellness Core grain free turkey: Lisa Freeman - EON-380745
Attachments:	2063135-report.pdf; 2063135-attachments.zip

A PFR Report has been received and PFR Event [EON-380745] has been created in the EON System.

A "PDF" report by name "2063135-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 "2063135-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-380745

ICSR #: 2063135

**EON Title:** PFR Event created for Wellness CORE Grain-Free Ocean Whitefish dry Wellness Core grain free turkey chicken liver and turkey liver formula canned Wellness Core Hearty Cuts grain-free in gravy chicken and turkey recipe; 2063135

AE Date	02/20/2019	Number Fed/Exposed	6
Best By Date		Number Reacted	3
Animal Species	Dog	Outcome to Date	Stable
Breed	Bulldog		
Age	<b>B6</b> Years		
District Involved	PFR-New England DO		

#### **Product information**

**Individual Case Safety Report Number: 2063135** 

**Product Group:** Pet Food

**Product Name:** Wellness CORE Grain-Free Ocean Whitefish dry Wellness Core grain free turkey, chicken liver, and turkey liver formula canned Wellness Core Hearty Cuts grain-free in gravy chicken and turkey recipe **Description:** Eating BEG diet - 2 other dogs in household diagnosed with DCM **B6**already reported) RDVM screened this dog with NT-proBNP which was elevated so we evaluated at Tufts

2/20/19 Probable <b>B5</b> diet-associated DCM but no arrhythmia detected (enlarged recontractility) Changing diet to Royal Canin Early Cardiac and will re-evaluate in 3 moending  Submission Type: Initial  Papert Type: Adverse Event (a symptom, reaction or disease associated with the pro-	onths. Taurine a	
Report Type: Adverse Event (a symptom, reaction or disease associated with the pro Outcome of reaction/event at the time of last observation: Stable Number of Animals Treated With Product: 6 Number of Animals Reacted With Product: 3	duct)	
Product Name	Lot Number or ID	Best By Date
Wellness CORE Grain-Free Ocean Whitefish dry Wellness Core grain free turkey, chicken liver, and turkey liver formula canned Wellness Core Hearty Cuts grain-free in gravy chicken and turkey recipe		
Sender information Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA		
Dwner information  B6  USA		
Γο view this PFR Event, please click the link below:  B6		
Γο view the PFR Event Report, please click the link below:		

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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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-	290745					
ICSR:	2063135					
Type Of Submission:	Initial					
Report Version:	FPSR.FDA.PETF.V.V1					
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	associated with the product)			
Reporting Type:	Voluntary					
Report Submission Date:	2019-02-25 08:12:41 EST					
Reported Problem:	Problem Description:	Eating BEG diet - 2 other dogs in household diagnosed with DCM (B6 - already reported) RDVM screened this dog with NT-proBNP which was elevated so we evaluated at Tufts 2/20/19 Probable B5 //diet-associated DCM but no arrhythmia detected (enlarged right ventricle, reduced contractility) Changing diet to Royal Canin Early Cardiac and will re-evaluate in 3 months. Taurine and troponin pending				
	Date Problem Started:	02/20/2019				
	Concurrent Medical Problem:					
	Pre Existing Conditions:		B6			
	Outcome to Date:	Stable		200		
Product Information:	Product Name:		in-Free Ocean Whitefish dry Welli key liver formula canned Wellness and turkey recipe			
	Product Type:					
	Lot Number:					
	Product Use Information:	Description:	Please see diet history for more i			
	Manufacturer					
	/Distributor Information:					
	Purchase Location Information:					
Animal Information:	Name:	B6				
	Type Of Species:	1				
	Type Of Breed:					
	-	r: Female				
	Reproductive Status:	<del>-</del>	tota norakin nora a noraki a noraki na nata a n	a biota a biota a biota distributa di biota a b		
	-	24.2 Kilogram <b>B6</b> Years				
	Assessment of Prior	<u> </u>	ran narawa na a na wa a na a na ana a na a			
	Health:	19 19 19 19 19 19 19 19 19 19 19 19 19 1				
	Given the Product:	4				
	Number of Animals Reacted:	<b>3</b>				
	Owner Information:	Owner Information provided:	Yes			
		Contact:	Name:			
			Phone: BC	000		
			Email:			
		Address:	<b>B6</b>			

	Healthcare Professional	Practice Name:	Tufts Cumming	s School of Veterinary Medicine
	Information:	Contact:	Name:	Lisa Freeman
			Phone:	(508) 887-4523
			Email:	lisa.freeman@tufts.edu
		Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States	
Sender Information:	Name:	Lisa Freeman		
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States		
	Contact:	ct: Phone: 5088874523		
		Email:	lisa.freeman@t	ufts.edu
	Permission To Contact Sender:	Yes		
	Preferred Method Of Contact:	Email		
Additional Documents:				
	Attachment:	rpt_medical_record_	preview.pdf	
	Description:	Med records		
	Tymes	: Medical Records		

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

To: Jones, Jennifer L

**Sent:** 11/13/2018 10:12:07 PM

**Subject:** RE: 800.267-EON-358523 B6

Attachments: taurine B6 pdf; taurin B6 pdf; taurin B6 pdf

Hi Jen

Attached are 3 taurine levels on dogs I've already reported – B6 , B6 and B6

I'll try to get the rest reported this week. I got a little backed up with so many. Do I have the record for most reports? ©

Also, Darcy Adin and I are collaborating on some studies so would love to catch up at some point if you think a conference call would be worthwhile.

Thanks!

Lisa

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

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

Sent: Tuesday, November 13, 2018 3:13 PM
To: Freeman, Lisa < lisa.freeman@tufts.edu>
Subject: RE: 800.267-EON-358523 B6

Thanks, Lisa. You can send the updates to me. I'm the primary POC for the DCM cases, and Dr. Peloquin will be handling the other cases.

Jennifer Jones, DVM Veterinary Medical Officer

www.petfoodology.org

Tel: 240-402-5421





From: Freeman, Lisa <<u>Lisa.Freeman@tufts.edu</u>>
Sent: Tuesday, November 13, 2018 3:02 PM

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

**Subject:** RE: 800.267-EON-358523- **B6** 

Hi Jen.

I've noted in a few submissions that I haven't yet talked to the owners but on any others, you should be able to contact them

Should I continue to send updates on cases I've submitted to you or is it better to send to someone else on your

The cases are continuing to come in so I've got some additional cases to submit.

Thanks

Lisa

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

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

Sent: Tuesday, November 13, 2018 2:45 PM To: Freeman, Lisa < lisa.freeman@tufts.edu > Subject: 800.267-EON-358523- B6

Hi Lisa,

Should I assume that it's ok to contact the owners for an interview when you submit the complaints? Hope you're well. Just want to check, Jen

#### 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

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





## **Amino Acid Laboratory Sample Submission Form**

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

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

Email: ucd.aminoacid.lab@ucdavis.edu

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

<b>B6</b>	
SHIP w ICE PACKS,TAU PANEL Lithium Heparin	JRINE

Veterinarian Conta	act: B6	]				
Clinic/Company Na	ame: <u>Tufts Cummin</u>	gs School of Vet. Med	d Clinical Pathology	Laboratory_		
Address: 200 West	boro Road, North Gra	ifton MA 015369				
Email: Clinpath@	tufts.edu & Car	diovete-	tufts, edu	1.		
Telephone: _	B6	Fax: _	В6			
Billing Contact:	B6	Email	: B6			
Billing Contact Pho	one: B6	Tax IC	);			
Patient Name:	B6	Speci	es: <u>Canin</u>	<u> </u>		
Breed: Dok	reman	Owne	er's Name: _	36		
Current Diet :	arth born	gruin Ree	1 welli	ISS.		
Sample type: (	Plasma Whole	Blood Urine	Food Other _	÷,		
Test: Taurine	Complete Amin	o Acids Other:				
Taurine Resul	ts (lab use only) Whole Blood:	DC				
Plasma: B6	Whole Blood:	<b>BO</b> Urine	e: F	food:		
, .	Plasma (nMol/ml) Whole Blood (nMol/ml)					
	Normal Range	No known risk	Normal Range	No known risk		
		for deficiency		for deficiency		
Cat	80-120	>40	300-600	>200		

>40

200-350

60-120

Dog

>150

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



## **Amino Acid Laboratory Sample Submission Form**

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

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

Email: ucd.aminoacid.lab@ucdavis.edu

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



Veterinarian Conta	act: B6	]			
Clinic/Company Na	ame: <u>Tufts Cummin</u>	gs School of Vet. Med	d Clinical Patholog	y Laboratory	
Address: 200 West	tboro Road, North Gra	afton MA 015369			
Email: Clinpath@	tufts.edu / Car	diovet@to	ifts. edy.		
Telephone:	B6	Fax: _	B6		
Billing Contact:	В6	Email	: B6		
Billing Contact Pho	one: B6	Tax II	D:		
Patient Name:	B6	Speci	es: <u>Caniné</u>		
	30X41	Owne	er's Name: _	<b>B6</b>	,
Current Diet :	Plasma Whole	super premi	in dry chicke	n luegs redry	Purna
Sample type:	Plasma Whole	Blood Urine	Food Other _	Newm	an's cur
	Complete Amin			Ch (C	ken Ince
	ts (lab use only)				
Plasma: <b>B6</b>	Whole Blood:	B6 Urine	e: F	-ood:	_
	Plasma (ı	nMol/ml)	Whole Bloc	od (nMol/ml)	
	Normal Range	No known risk	Normal Range	No known risk	
		for deficiency		for deficiency	
Cat	80-120	>40	300-600	>200	
Dog	60-120	>40	200-350	>150	

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

PL: 24421 WB: 24422

### **Amino Acid Laboratory Sample Submission Form**

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

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

Email: ucd.aminoacid.lab@ucdavis.edu

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

Veterinarian Contac	ct: B6				
Clinic/Company Na	me: Tufts Cumming	s School of Vet. Med	Clinical Pathology	Laboratory	
Address: 200 Westb	ooro Road, North Gra	fton MA 015369			
Email: Clinpath@t	ufts.edu Card	LIOVET @ to	1975, edy		
Telephone:	B6	Fax: _	В6		
Billing Contact:	В6	Email	B6		
Billing Contact Pho			:		
Patient Name:	B6	Specie	es: <u>Jolo</u>	den	
Breed: Gold	Ven		r's Name:	36	
Current Diet : B	senetul-	wason	grain free	taste shu	ld and
Sample type:	Plasma Whole	Blood Urine	Food Other	Na	Belance
Test: Taurine	Complete Amino	o Acids Other:			
Taurine Result	ts (lab use only)				
Plasma: <b>B6</b>			e: Fo	ood:	
⊣	.;	- <u>t</u> -		***************************************	
	Plasma (ı	nMol/ml)	Whole Bloo	d (nMol/ml)	
	Normal Range	No known risk	Normal Range	No known risk	
		for deficiency		for deficiency	
Cat	80-120	>40	300-600	>200	
D	60-120	>40	200-350	>150	

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

From:	Related PFR Event <pfrsignificantactivitycreation@fda.hhs.gov></pfrsignificantactivitycreation@fda.hhs.gov>
То:	Rotstein, David; Cleary, Michael *; HQ Pet Food Report Notification;  B6
Sent:	6/11/2019 7:17:00 PM
Subject:	Earthborn grain free weight management dry: Lisa Freeman - EON-390207
Attachments:	2068098-report.pdf; 2068098-attachments.zip

A PFR Report has been received and Related PFR Event [EON-390207] has been created in the EON System.

A "PDF" report by name "2068098-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 "2068098-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-390207

ICSR #: 2068098

**EON Title:** Related PFR Event created for Earthborn grain free weight management dry; 2068098

AE Date	11/05/2018	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Died Euthanized
Breed	Doberman Pinscher		
Age	<b>B6</b> Years		
District Involved	PFR-New England DO		

#### **Product information**

**Individual Case Safety Report Number: 2068098** 

Product Group: Pet Food

Product Name: Earthborn grain free weight management dry

**Description:** Diagnosed with DCM, CHF, and atrial fibrillation 11/5/18. Currently hospitalized. Taurine submitted to UC Davis. Unclear if related to diet, given breed but eating boutique, grain-free diet. Only prior history is traumatic injury in 2015. Genetic testing - negative for DCM1 & DCM2 Normal taurine levels - plasma **B6**, whole blood **B6** Patient was humanely euthanized **B6** due to worsening CHF. Specimens were not collected for evaluation per owner.

**Submission Type:** Followup

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

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

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

Product Name	Lot Number or ID	Best By Date
Earthborn grain free weight management dry		

This report is linked to:

**Initial EON Event Key: EON-370708** 

**Initial ICSR: 2058678** 

#### **Sender information**

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

$\sim$		. •
Owner	intorn	ration
OWILL	1111 () 1 11	

**B6** 

USA

To	view	this	Related	<b>PFR</b>	Event,	please	click	the	link	belo	)W:
								i i			

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

**B6** 

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through your local district FDA office.

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

{							
Report Details - EON-	390207						
ICSR:	2068098						
Type Of Submission:	Followup						
Report Version:	FPSR.FDA.PETF.V.V1	a a trada a métrida a brita a la brita da brita a a britán a brita da brita da brita a brita da brita da brita					
Type Of Report:	Adverse Event (a symptom,	reaction or disease a	ssociated with the product)				
Reporting Type:	Voluntary						
Report Submission Date:	j						
Initial Report Date:	11/09/2018						
Parent ICSR:	2058678						
Follow-up Report to FDA Request:	Yes						
Reported Problem:	Problem Description:	Disanced with DCN	1, CHF, and atrial fibrillation 11/5/18. Currently hospitalized.				
reported Froblem.		Taurine submitted to UC Davis. Unclear if related to diet, given breed but eating boutique, grain-free diet. Only prior history is traumatic injury in 2015. Genetic testingnegative for DCM1 & DCM2 Normal taurine levels - plasma B6 whole blood B6 Patient was humanely euthanized B6 due to worsening CHF. Specimens were not collected for evaluation per owner.  em Started: 11/05/2018  ent Medical Problem:  me to Date: Died Euthanized					
	Outcome to Date:						
	Date of Death:	B6					
Product Information:	Product Name:	Earthborn grain free	weight management dry				
	Product Type:	}T					
	Lot Number:						
	Package Type:	BAG					
	Product Use Information:						
	Manufacturer /Distributor Information:						
	Purchase Location Information:						
Animal Information:	Name:	B6					
	Type Of Species:	Dog					
	Type Of Breed:	Doberman Pinscher					
	Gender:	Male					
	Reproductive Status:	Neutered					
	5	45.2 Kilogram					
	? (	<b>B6</b> Years					
	Assessment of Prior Health:	<del>(1000000000000000000000000000000000000</del>					
	Number of Animals Given the Product:	1					
	Number of Animals Reacted:	1					
	Owner Information:	Owner Information provided:	Yes				
		Contact:	Name: B6				
		511636	Phone: B6				
			Email: B6				
		A .1.1	, ————————————————————————————————————				
		Address:	B6				

			B6 United States		
	Healthcare Professional	Practice Name:	Tufts Cumming	s School of Veterinary Medicine	
	Information:	Contact:	Name:	Lisa Freeman	
			Phone:	(508) 887-4523	
			Email:	lisa.freeman@tufts.edu	
		Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States		
Sender Information:	Name:	Lisa Freeman			
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States			
	Contact:	Phone:	5088874523		
		Email:	lisa.freeman@t	ufts.edu	
	Permission To Contact Sender:				
	Preferred Method Of Contact:	Email			
Additional Documents:					
	Attachment:	Follow-up med recor	rds pt 4.pdf		
	Description:	Med records			
	Туре:	Medical Records			
	Attachment:	Follow-up med recor	rds pt 2.pdf		
	Description:				
		Medical Records			
	Attachment:	Follow-up med recor	rds pt 3.pdf		
		Med records			
		Medical Records			
	Attachment:	Follow-up med recor	rds pt 1.pdf		
		Med records	, ,		
	·	: Medical Records			

В6

3/14/2019 3:34:06 PM

Page 1 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

**ECG** from Cardio

В6

3/14/2019 3:34:06 PM

Page 2 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

**ECG** from Cardio

В6

3/14/2019 3:34:20 PM

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Tufts University Tufts Cummings School of Vet Med Cardiology

**B6** 

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Tufts University Tufts Cummings School of Vet Med Cardiology

**B6** 

3/14/2019 3:34:39 PM

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Tufts University Tufts Cummings School of Vet Med Cardiology

**ECG** from Cardio

В6

3/14/2019 3:34:39 PM

Page 2 of 2

Tufts University Tufts Cummings School of Vet Med Cardiology

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

**To:** Jones, Jennifer L **Sent:** 12/27/2018 1:55:26 PM

Subject: updates

Hi Jen

I'm finally digging out from other deadlines so am back to reporting cases to you. I'll submit a bunch online but wanted to let you know that B6 died B6 Hope you get some time off to enjoy the holidays!

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

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

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

B6

Sent: 6/10/2019 2:56:47 PM

Subject: PureVita Venison & Red Lentils Grain-Free Dry Dog Food B6
EON-390031

Attachments: 2067992-report.pdf; 2067992-attachments.zip

A PFR Report has been received and Related PFR Event [EON-390031] has been created in the EON System.

A "PDF" report by name "2067992-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 "2067992-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-390031

ICSR #: 2067992

**EON Title:** Related PFR Event created for PureVita Venison & Red Lentils Grain-Free Dry Dog Food,

NutriSource Adult Chicken and Rice formula; 2067992

AE Date	03/01/2019	Number Fed/Exposed	1
Best By Date		Number Reacted	1
<b>Animal Species</b>	Dog	Outcome to Date	Better/Improved/Recovering
Breed	American Pit Bull Terrier		
Age	B6 Years		
District Involved	PFR-New England DO		

#### **Product information**

**Individual Case Safety Report Number: 2067992** 

**Product Group:** Pet Food

**Product Name:** Pure Vita Venison & Red Lentils Grain-Free Dry Dog Food, NutriSource Adult Chicken and

Rice formula

**Description:** Patient presented to rDVM in March of 2019 for acute onset of a non-productive cough, exercise intolerance and decreased appetite. Patient was diagnosed in CHF secondary to DCM - suspect diet-related.

Product Name	Lot Number or ID	Best By Date
NutriSource Adult Chicken and Rice formula		
PureVita Venison & Red Lentils Grain-Free Dry Dog Food		
200 Westboro Road North Grafton, MA 01536 USA  Dwner information USA  USA		
Γο view this Related PFR Event, please click the link below:  B6		

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

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

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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 ICSR:	2067992				
Type Of Submission:	Followup				
Report Version:	FPSR.FDA.PETF.V.V1				
Type Of Report:		reaction or disease associated with the product)			
Reporting Type:	Voluntary				
	e: 2019-06-10 10:48:40 EDT				
Initial Report Date:	04/29/2019				
Parent ICSR:	2066404				
Follow-up Report to FDA Request:	Yes				
Reported Problem:	Problem Description:	Patient presented to rDVM in March of 2019 for acute onset of a non-productive cough, exercise intolerance and decreased appetite. Patient was diagnosed in CHF secondary to DCM - suspect diet-related. Patient was placed on B6  B6 and taurine. Taurine levels prior to supplementation was WNL.			
	Date Problem Started:	03/01/2019			
	Concurrent Medical	No			
	Problem:	Date: Better/Improved/Recovering			
Product Information:	Product Name:	NutriSource Adult Chicken and Rice formula			
r roddot imormation.	Product Name.  Product Type:				
	Lot Number:	I GLI UUU			
	[	9B15P 18581			
	Package Type:				
	Package Size:				
	Possess Opened Product:				
	Product Use Information:				
	Manufacturer /Distributor Information:				
	Purchase Location Information:				
	Product Name:	PureVita Venison & Red Lentils Grain-Free Dry Dog Food			
	Product Type:	Pet Food			
	Lot Number:				
	Package Type:	BAG			
	Product Use Information:				
	Manufacturer /Distributor Information:				
	Purchase Location Information:				
Animal Information:	Name:	B6			
	Type Of Species:	ymmentematik			
	( )	American Pit Bull Terrier			
	Gender:	<u></u>			
	Reproductive Status:	Neutered			
		32 Kilogram			
		B6 Years			
	Assessment of Prior Health:				

	Number of Animals Given the Product:	1					
	Number of Animals Reacted:	1					
	Owner Information:	Owner Information provided:					
		Contact:		B6 B6			
			Phone: Email:	<u>, во</u> В6			
		Address:	-				
	Healthcare Professional	Practice Name:	Tufts Cumming	s School of Vete	erinary Medicine		
	Information:	Contact:	Name:	B6			
			Phone:	B6	<u> </u>		
			Email:	В6			
		Address:	North Grafton	Massachusetts 01536			
		Practice Name:	Tufts University				
		Contact:		Lisa Freeman			
				(508) 887-4523			
		Type of Veterinarian:	Referred veteri	lisa.freeman@t narian	uits.eau		
		Permission to Release Records to FDA:	Yes				
Sender Information:	Name:	В6					
		200 Westboro Road North Grafton Massachusetts 01536 United States	d				
	Contact:	Phone:	В6				
		Email:	B6				
	Permission To Contact Sender:						
	Preferred Method Of Contact:	Email					
	Reported to Other Parties:	None					
Additional Documents:							
	Attachment:	Diet Hx 5-3-2019.pdf					
		m: Med records					
	Туре:	Medical Records					
	Attachment:	Recheck chem 21 5	-3-2019.pdf				
	Description:						
	Туре:	pe: Laboratory Report					

Attachment:		troponin 5-30-2019.pdf
Description:	Lab work	
Туре:	Laboratory Re	port



200 Westboro Road

North Grafton, MA 01536

**B6** 

USA

## **Gastrointestinal Laboratory**

#### Dr. J.M. Steiner

## **Department of Small Animal Clinical Sciences**

#### **Texas A&M University 4474 TAMU**

College Station, TX 77843-4474

**B6** Website User ID @tufts.edu

Tufts Cummings School of Vet Med - Cardiology/Nutrition

GI Lab Assigned Clinic ID: 23523

Phone: 508 887 4696

Fax:

**Animal Name:** Owner Name: Species: Canine

May 30, 2019 Date Received:

Tufts Cummings School of Vet Med -Cardiology/Nutrition Tracking Number: 444116

GI Lab Accession: **B6** 

<u>Test</u>	<u>Result</u>	Reference Interval	<u>Assay Date</u>
Ultra-Sensitive Troponin I Fasting	<b>B6</b> ng/mL	≤0.06	05/31/19
	<b>B6</b>	l	

Comments:

**GI Lab Contact Information** 

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

444116

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

	's name	<b>30</b>		Owner's name:	<b>B6</b>		Today's	date: <u>5[3[9</u>
1.	· · · · · · · · · · · · · · · ·	-	our pet's app	etite? (mark the p	טווונטוויששיווופיונ	ਾਦੇlow that bes	t represents yo <i>Excellent</i>	our pet's appetite)
	Example:	Poor				-	Excellent	
		Poor				P	_Excellent	
2.	Eats about	the same a	mount as usu	t's appetite over that □Eats less usual □Other_	than usual	■Eats more	that apply) e than usual	
3.	Over the last Lost weight	few weeks, □Gaine	has your pet d weight	(check one) Stayed about the	same weight	□Don't know		
1.				le food, treats, sna the last 2 years.	ack, dental chev	vs, rawhides, a	and any other f	ood item that your pet
	Please provid	de enough d	detail that we	could go to the sto	ore and buy the	exact same fo	ood - examples	are shown in the table
			cific product		Form	Amount	How often?	Dates fed
	Nutro Grain F	ree Chicke	n, Lentil, & Si	veet Potato Adult	dry	1 ½ cup	2x/day	Jan 2016-present
	85% lean har	mburger			microwaved	3 oz	1x/week	June -Aug 2016
	Pupperoni or	iginal beef f	flavor		treat	1/2	1x/day	Sept 2016-present
	Rawhide				treat	6 inch twist	1x/week	Dec 2018-present
	20141	6010	BUNDE		Lav	3/4	27/241	APril 2019 - Present
	Screvul d	1000 Ta	Rest 1 Kin	aV.	5 4~	2766	2 1 1 1	APAIL 2014 - Prese
	7 (18706 G	147 148	OCTF FINANCE	00000 100			C 7 5 9 X	
	11 00 1	5 (181)	C 1 Savorir	PRANUT + Banana	Treat	41/2	1	APRIL SOIY - Pres
	MCTO VI	WLIELY	5~4P5 \$	IGC BIRCS	trat	1/4	6 Y dyx	APAIL 2019 - Pro
	*Any addition	al diet infor	mation can be	e listed on the bac	ck of this sheet	4		
2.	Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, supplements)?  Taurine Carnitine  Yes No  Yes No  Yes No						d amounts: 2 a	Amount per day
	Carnitine Antioxidants	LIY€	es ⊔No					
	Multivitamin Fish oil		es □No				_	
	Coenzyme Q Other (please	(10 □Y€ e list):	es •No				_	
	Example: Vita	pple: Vitamin C Nature's Bounty						ng tablets – 1 per day
3.	How do you			et?				
	put them put them	directly in r in my pet's in a Pill Po	my pet's mout dog/cat food cket or simila	h without food				
	= · par mem	10003 (113	J. 100d0)					

## **Tufts Cummings School Of Veterinary Medicine**

200 Westboro Road North Grafton, MA 01536

Name/DOB: B6		Provider: <b>B6</b>
Patient ID <b>B6</b>	Sex: CM	Order Location: Foster Hospital for Small Animals
Phone number:	Age: 2	Sample ID: B6
Collection Date: 5/3/2019 11:51 AM	Species: Canine	\/
Approval date: 5/3/2019 12:55 PM	Breed: Pit Bull	

Research Chemistry	Profile - Small Animal (Cobas)	
DNOYES	processors.	Ref. Range/Males
Glucose		67-135 mg/dL
Urea		8-30 mg/dL
Creatinine		0.6-2.0 mg/dL
Phosphorus		2.6-7.2 mg/dL
Calcium 2		9.4-11.3 mg/dL
Magnesium 2+		1.8-3.0 mEq/L
Total Protein		5.5-7.8 g/dL
Albumin		2.8-4.0  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		8.0-19.0
NA/K		29-40
Total Bilirubin	<u> </u>	0.10 <b>-</b> 0.30 mg/dL
Alkaline Phosphatase	Hemolysis may affect result(s)	12-127 U/L
GGT	B6	0-10 U/L
ALT		14-86 U/L
AST		9-54 U/L
Creatine Kinase	Hemolysis may affect result(s)	22-422 U/L
Cholesterol		82-355 mg/dL
Triglycerides	B6	30-338 mg/dl
Amylase		409-1250 U/L
Osmolality (calculated)		291-315 mmol/L
Comments (Chemistry)	B6 hemolysis	

Sample ID: 1905030068/1 END OF REPORT (Final) Reviewed by: \_\_\_\_\_

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

**Sent:** 11/9/2018 10:52:44 PM

Subject: Zignature trout & salmon dry: Lisa Freeman - EON-370715

Attachments: 2058683-report.pdf; 2058683-attachments.zip

A PFR Report has been received and PFR Event [EON-370715] has been created in the EON System.

A "PDF" report by name "2058683-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 "2058683-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-370715

ICSR #: 2058683

**EON Title:** PFR Event created for Zignature trout & salmon dry; 2058683

AE Date	11/07/2018	Number Fed/Exposed	3
Best By Date		Number Reacted	2
Animal Species	Dog	Outcome to Date	Stable
Breed Retriever - Labrador			
Age	3 Years		
<b>District Involved</b> PFR-New England DO			

#### **Product information**

**Individual Case Safety Report Number: 2058683** 

**Product Group:** Pet Food

**Product Name:** Zignature trout & salmon dry

**Description:** Older housemate diagnosed with DCM and CHF. Screening **B6** because he has been eating the same diet. Does not have clearcut DCM on echo but has reduced cardiac contractility. Taurine pending and owner

has changed diet and started taurine supplementation

**Submission Type:** Initial

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

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

Number of Animals Treated With Product: 3 Number of Animals Reacted With Product: 2

Product Name	Lot Number or ID	Best By Date
Zignature trout & salmon dry		

#### **Sender information**

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

(	Owner information		
	<b>B6</b>		
	B6	USA	

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

To view the PFR Event Report, please click the link below:	
<b>B</b> 6	

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Report Details - EON-	370715		
ICSR:	2058683		
Type Of Submission:	Initial		
Report Version:	FPSR.FDA.PETF.V.V1		
Type Of Report:	Adverse Event (a symptom, reaction or disease associated with the product)		
Reporting Type:	Voluntary		
Report Submission Date:			
Reported Problem:	Problem Description:	Older housemate diagnosed with DCM and CHF. Screening <b>B6</b> because he has been eating the same diet. Does not have clearcut DCM on echo but has reduced cardiac contractility. Taurine pending and owner has changed diet and started taurine supplementation	
	Date Problem Started:		
	Concurrent Medical Problem:		
	Outcome to Date:	Stable	
Product Information:	Product Name:	Zignature trout & sal	mon dry
	Product Type:		
	Lot Number:	3	
	Package Type:		
	Product Use Information:	Description:	trout & salmon from 09/30/15-10/01/18. 1.25 cups twice daily of Zignature. The primary cookies he ate was Earthborn Holistic Grain-Free, all varieties, and he might have had 3-4 cookies per day. The only other cookies he would have eaten were misc. varieties brought by misc. delivery people (propane, UPS, etc.) and not regularly. If we
			ever had to give medication, we always used the Greenies Pill Pockets.
	Manufacturer /Distributor Information:		
	Purchase Location Information:		
Animal Information:	Name:	B6	
	Type Of Species:	Dog	
	Type Of Breed:	Retriever - Labrador	
	Gender:	Male	
	Reproductive Status:	Neutered	
	Weight:	25.9 Kilogram	
	Age:	3 Years	
	Assessment of Prior Health:	Excellent	
	Number of Animals Given the Product:	3	
	Number of Animals Reacted:	2	
	Owner Information:	Owner Information provided:	Yes
		Contact:	Name: B6
			Phone: B6
			Email: B6
		Address:	
		, 1331033.	<b>B6</b>

			<b>B6</b> United States			
	Healthcare Professional	Practice Name:	Tufts Cumming	s School of Veterinary Medicine		
	Information:	Contact:	Name:	Lisa Freeman		
			Phone:	(508) 887-4523		
			Email:	lisa.freeman@tufts.edu		
		Address:	200 Westboro North Grafton Massachusetts 01536 United States			
Sender Information:	Name:	Lisa Freeman				
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States				
	Contact:	Phone:	5088874523			
		Email:	lisa.freeman@t	ufts.edu		
	Permission To Contact Sender:					
	Preferred Method Of Contact:	Email				
Additional Documents:						
		compiled medical re	cord.pdf			
	Description:					
	Type:	Medical Records				

# Diet Hx 1/24/19

R	Diames seems		and an en man a man in the on man	h		
et's name:	6 Own	er's name :	Е	36	Today's date:	1/24/19
Haw would you see	ess your pet's appetite				manta ini a	(f.
Example: Poc		r (mark ma po	int on the line be		resenis your per ellent	rs appenie)
Poo	T.		K -	<u>_</u>	ellent )	
					The state of the s	
DEats about the sar	change in your pet's a ne amount as usual ifferent foods than usu	DEats less	e last 1-2 weeks' than usual	? (check all that a DEats more that	apply) n usual	
	eks, has your pet (che ained weight Sta		same weight 🏻 🗖	Don't know		
Please list below AL currently eats. Pleas	L pet foods, people for e include the brand, s	od, treats, sna pecific product	ck, dental chews, , and flavor so w	rawhides, and a e know exactly w	iny other food ite hat you pet is ea	em that your pet
Food (include spec	ific product and flav	or) For	m Amo	ount How	often?	Fed since
Examples are shown	n in the table – please	provide enoug	h detail that we c	ould go to the st	ore and buy the	<u>reu since</u> exact same for
	· · · · · · · · · · · · · · · · · · ·					
	specific product and		Form	Amount	How often?	Fed since
	icken, Lentil, & Sweet	Potato Adult	dry	1 ½ cup	2x/day	Jan 2018
85% lean hamburge			microwaved	3 oz	1x/week	Jan 2015
Pupperoni original bi	eef flavor		treat	1/2	1x/day	Aug 2015
Rawhide			treat	6 inch twist	1x/week	Dec 2015
YURALA PRA	PUN SPORT	30 20	10QV	1,50	2 Kay	10/18
Vistala C	DEES - HAR	D HED	<u> </u>	51dau	1-4-15-15-15-15-15-15-15-15-15-15-15-15-15-	
5,260 505 GRSCERY	ares red Bi	ZZ 1V 2		기색공		L-71X
						-
						1
						***************************************
*Any additional diet i	nformation can be liste	d on the back	of this sheet	- Control of the Cont	1	<del></del>
supplements)?  Taurine	ary supplements to yo Yes IINo If yes, I	blease list which Brand/C	th ones and give oncentration	brands and amo	unts: Amo	ther ount per day 5⊇/day
Carnitine	DYes DNo		V LABS			<u> </u>
Antioxidants	□Yes □No	***************************************		······································		- wi v munin
Multivitamin	OYes ONo			-	- destroyers to the second	
Fish oil	□Yes □No □Yes □No					
Coenzyme Q10 Other (please list):	LIYES LINO					
the second of the second secon		Nati	ıre's Bounty		500 mg table	its – 1 per day
Example: Vitamin C					***************************************	
Take 1 Ta	PETER SOCIEDAD MANAGEMENTON					
Take 1 Ta	Personal and Perso	www.	<del> </del>	***************************************		
Example: Vitamin C		was the control of th				
Example: Vitamin C  How do you administ	er pills to your pet?	Model Control of the		200000000000000000000000000000000000000		
Example: Vitamin C  How do you administ  I do not give any n  I put them directly	nedications in my pet's mouth with	MATERIA STATE OF THE STATE OF T				
How do you administ  I do not give any n  I put them directly	nedications in my pet's mouth with	out food	nego felencia (in incidente de la companio del la companio de la companio del la companio de la companio del la companio de la companio de la companio del la compan			

# Diet Hx 5/1/2019

		CARDIOLOGY	DIET HISTOR	RY FORM		432033
et's name.	B6	e answer the follo _ Owner's name :				date: 5   1   9
How would yo Example:	u assess your pet's a	ppetite? (mark the po	oint on the line I	! pelow that bes		30.37
	Poor			<u> </u>	Excellent	
Eats about t	ced a change in your ne same amount as t efer different foods th	pet's appetite over th usual □Eats less nan usual □Other_	e last 1-2 week than usual	s? (check all t □Eats more		_
Over the last for Court of the	ew weeks, has your p □Gained weight	pet (check one) Stayed about the	same weight	□Don't know		
currently eats	and that you have fed	d in the last 2 years.				ood item that your pet
			1900.0			are shown in the table
	clude specific produ ee Chicken, Lentil, &		Form	Amount	How often?	Dates fed
85% lean ham		Sweet Potato Adult	dry	1 ½ cup	2x/day	Jan 2016-present
	rinal beef flavor		microwaved	3 oz	1x/week	June -Aug 2016
apperoni ong Rawhide	illal Deel llavoi		treat treat	5/2	1x/day	Sept 2016-present
	SPULL SHIVER	CHALLON		6 inch twist	1x/week	Dec 2018-present
BY BY	EF + KICE	DARCENOEU	DRY	11/2 C	2x lday	10/18-preso
RUMAGA HAR	o variety so	aps little	TREKT	2-4	Perday	1/19 - presen
Caryon	of Train - He Reward -	Brecon Brecon	mar	3-6	perdan	- 1/19 - presen
		be listed on the back				
supplements)?	Yes INo	ts to your pet (for exa If yes, please list whi Brand/0	imple: vitamins ch ones and giv Concentration	, glucosamine, /e brands and	, fatty acids, or a amounts:	Amount per day
Taurine	√QYes □No	NOID 100	OMA			2/dain
Carnitine	□Yes □No	μ,	).			
Antioxidants	□Yes □No				_	
Multivitamin	□Yes □No				_	
Fish oil	Yes ONo					
Coenzyme Q1	U LIYES LINO					
Other (please I Example: Vitar		Nat	ure's Bounty		500 mg	tablets – 1 per day
					4	
☐ I do not give	minister pills to your any medications	******				
DI put them in	irectly in my pet's mo my pet's dog/cat foo a Pill Pocket or simi	od .				
	foods (list foods):					

# Idexx NT-proBNP 5/1/2019

Client B6 Patient B6 IDEXX Reference Laboratories IDEXX VetConnect 1-888-433-9967 Client: B6 Date: 05/01/2019 TUFTS UNIVERSITY 200 WESTBORO RD NORTH GRAFTON, Massachusetts 01536 Patient B6 Species CANINE Breed: GOLDEN\_RETRIEVE Gender: MALE NEUTERED Requisition #: 1.0.
Accession # B6 Ordered by B6 508-839-5395 Age: 3Y Account #88933 CARDIOPET proBNP - CANINE CARDIOPET proBNP - B6 **B6** 0 - 900 pmol/L CANINE Please note: Complete interpretive comments for all concentrations of Cardiopet

proBNP are available in the online directory of services. Serum specimens received

at room temperature may have decreased NI-proBNP concentrations.

Page 1 of 1

# **Troponin 5/31/2019**



USA

#### Gastrointestinal Laboratory

#### Dr. J.M. Steiner

#### Department of Small Animal Clinical Sciences

### Texas A&M University 4474 TAMU

College Station, TX 77843-4474

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



GI Lab Assigned Clinic ID: 23523

B6 ;
Tufts Cummings School of Vet Med - Cardiology/Nutrition 200 Westboro Road North Grafton, MA 01536

Animal Name: Owner Name: Species: Date Received:

Phone:

Fax:

B6 Canine

508 887 4696

May 30, 2019

Date Received:

GI Lab Accession: B6

Tufts Cummings School of Vet Med -Cardiology/Nutrition Tracking Number: 432033

yakit telepa yakisi Med

\_\_\_\_\_

Test Result Reference Interval Assay Date

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

B6 sq/mL ≤0.06 05/31/19

Comments:		

GI Lab Contact Information

Phone: (979) 862-2861 Fax: (979) 862-2864 Email: gilab@cvm.tamu.edu vetmed.tamu.edu/gilab From: Related PFR Event <pfrsignificantactivitycreation@fda.hhs.gov>

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

B6

Sent: 3/28/2019 9:01:34 PM

Subject: Rachel Ray peak open range recipe (beef: Lisa Freeman - EON-383627)

Attachments: 2064872-report.pdf; 2064872-attachments.zip

A PFR Report has been received and Related PFR Event [EON-383627] has been created in the EON System.

A "PDF" report by name "2064872-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 "2064872-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-383627

ICSR #: 2064872

**EON Title:** Related PFR Event created for Rachel Ray peak open range recipe (beef venison lamb); 2064872

AE Date	10/06/2018	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	Boxer (German Boxer)		
Age	B6 Years		
District Involved	PFR-New England DO		

# **Product information**

**Individual Case Safety Report Number: 2064872** 

Product Group: Pet Food

**Product Name:** Rachel Ray peak open range recipe (beef, venison, lamb)

**Description:** DCM and arrhythmias diagnosed at time of **B6** surgery so unclear if sepsis/post-op or true DCM. Had recheck echo 10/31/18 and still has DCM. Taurine pending. Owner has changed diet to Royal Canin Boxer

**Submission Type:** Followup

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

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

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

Product Name	Lot Number or ID	Best By Date
Rachel Ray peak open range recipe (beef, venison, lamb)		

This report is linked to:

**Initial EON Event Key: EON-370720** 

**Initial ICSR: 2058685** 

# **Sender information**

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

$\sim$		•	c		, •	
Own	er	ın	tor	m	atio	n

**B6** 

**ISA** 

To view this Related	PFR Event, please	click the link below
	DC	<u>-</u>

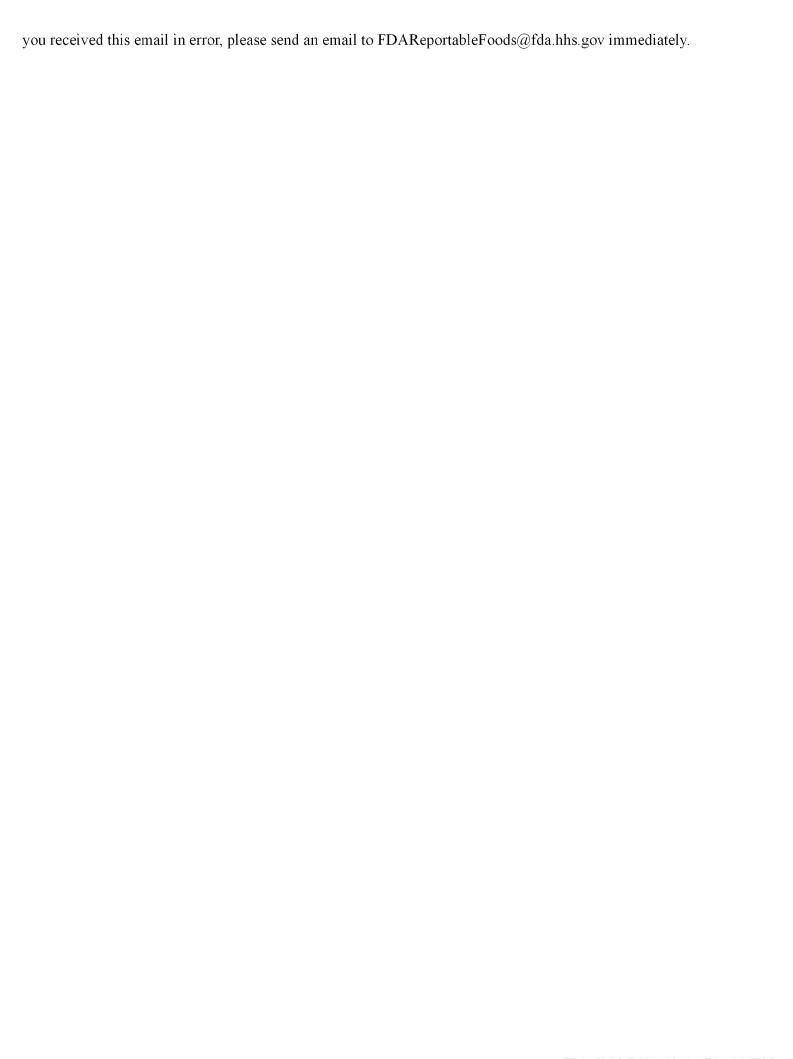
To view the Related PFR Event Report, please click the link below:
<b>B6</b>

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



Report Details - EON-	4					
ICSR:	2064872					
Type Of Submission:	Followup			a anna a collota a nova a dinota a nova a monta a nova amonta a nova a nova a		
Report Version:	FPSR.FDA.PETF.V.V1					
Type Of Report:	74 75	reaction or disease	associated with the product)			
Reporting Type:	Voluntary					
Report Submission Date:	3					
Initial Report Date:	11/09/2018					
Parent ICSR:	2058685					
Follow-up Report to FDA Request:	Yes		<u> </u>			
Reported Problem:	Problem Description:	op or true DCM. Had	as diagnosed at time of <b>B6</b> surgery d recheck echo 10/31/18 and still has diet to Royal Canin Boxer			
	Date Problem Started:	10/06/2018				
	Concurrent Medical Problem:	Yes				
	Pre Existing Conditions:	2	B6			
	Outcome to Date:	Stable				
Product Information:	Product Name:	Rachel Ray peak open range recipe (beef, venison, lamb)				
	Product Type:	: Pet Food				
	Lot Number:	### ### ###				
	Package Type:	BAG				
	Product Use Information: Manufacturer	Description:	Rachael Ray's since about 2017- pri Purina One chicken and rice. The Ra him was "PEAK- open range receipt some with lamb or beef. The dry was can of newman's organic chicken an cooked chicken breasts and rice as a rice every other week and used cup canned food. Mixed it in with the dry Thursday switched him to Royal Car with 1/2 can of science diet healthy of carrots and spinach stew mixed with dry food	achael Ray that I fed some with chicken is served with one half a d brown rice. I also well as hamburger and of this instead of the food. I have as of last hin dry food for Boxers cusine-roasted chicken,		
	/Distributor Information:					
	Information:					
Animal Information:	Name:	В6				
	Type Of Species:	Dog				
	Type Of Breed:	Boxer (German Box	er)			
	Gender:	Male				
	Reproductive Status:	s. Intact				
	· · · · · · · · · · · · · · · · · · ·	t: 34.8 Kilogram				
		e: <b>B6</b> Years				
	Assessment of Prior Health:					
	Number of Animals Given the Product:					
	Number of Animals Reacted:	7				
	Owner Information:	Owner Information	Yes			

		provided:		
		Contact:	Name:	B6
			Phone:	B6
			Email:	B6
		Address:	В6	
			United States	
	Healthcare Professional	Practice Name:	Tufts Cumming	s School of Veterinary Medicine
	Information:	Contact:	Name:	Lisa Freeman
			Phone:	(508) 887-4523
			Email:	lisa.freeman@tufts.edu
		Address:	200 Westboro North Grafton Massachusetts 01536 United States	
Sender Information:	Name:	Lisa Freeman		
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States		
	Contact:	Phone:	5088874523	
		Email:	lisa.freeman@t	rufts.edu
	Permission To Contact Sender:	Yes		
	Preferred Method Of Contact:	Email		
Additional Documents:				
	Attachment:	Diet Hx 3-27-19.pdf		
	The latest and a second second	Diet History 3/27/19		
	Туре:	Medical Records		
	Attachment:	Med rec 3.pdf		
		Medical record		
	Type:	Medical Records		
	Attachment:	Med rec 1.pdf		
		Medical record		
	Туре:	Medical Records		
	Attachment:	Med rec 2.pdf		
		Medical record		
	Туре:	Medical Records		
	Attachment:	BNP 3-28-19.pdf		
	Description:			
	Туре:	Medical Records		

Client: **B6** Patient: **B6** 

IDEXX VetConnect 1-888-433-9987

Client: B6
Patient: B6
Species: CANINE
Breed:

Gender: MALE Age: 8Y Date: 03/27/2019
Requisition #: 1A
Accession # B6
Ordered by B6

**TUFTS UNIVERSITY** 200 WESTBORO RD NORTH GRAFTON, Massachusetts 01536 508-839-5395

Account #88933

CARDIOPET proBNP - CANINE

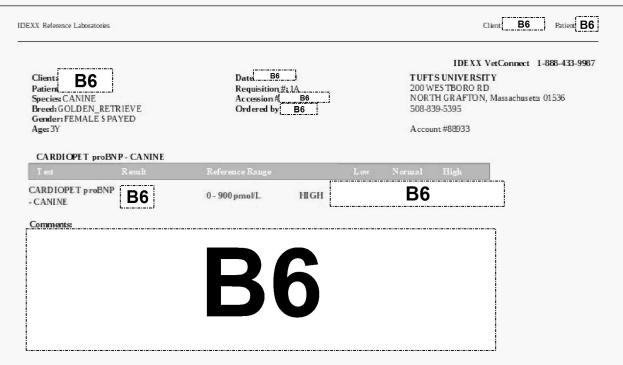
Test	Result					High	
CARDIOPET proBNP - CANINE	В6	0 - 900 pmol/L	HIGH		В	6	
Comments:							
1.		В	6	)			

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

# Diet Hx 5/3/2019

Owner's name ow would you assess your pet's appetite? (mark the power's ample:  Poor	ne weight I dental chew and buy the form dry nicrowaved treat treat dry lice of this sheet	s? (check all the DEats more	Excellent  Excellent  hat apply) than usual	our pet's appetite)  ood item that your pet
ave you noticed a change in your pet's appetite over the lateats about the same amount as usual	ne weight I dental chew and buy the form dry nicrowaved treat treat dry lice of this sheet	s? (check all the DEats more) Don't know s, rawhides, and exact same for the count of the count	represents you  Excellent  Excellent  hat apply) than usual  and any other for  od - examples  How often?  2x/day  1x/week  1x/week  2 x (du/ 3 x (week)	ood item that your pet  are shown in the table  Dates fed Jan 2016-present June -Aug 2016 Sept 2016-present Dec 2018-present Jun 2019-yersent
ave you noticed a change in your pet's appetite over the lateats about the same amount as usual	ne weight I dental chew and buy the form dry nicrowaved treat treat AM	s? (check all the DEats more)  Don't know s, rawhides, and exact same for the count of the count	nat apply) than usual  and any other frod - examples  How often? 2x/day 1x/week 1x/week 2 x Au/ 3 x Week	Dates fed Jan 2016-present June -Aug 2016 Sept 2016-present Dec 2018-present Jun June -Aug 2016 Aug 2016-present Dec 2018-present Jun June -Aug 2016 June -A
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Eats about the same amount as usual Seems to prefer different foods than usual Other	ne weight I dental chew and buy the Form dry nicrowaved treat treat AM	Deats more  Don't know s, rawhides, a exact same for  Amount 1 ½ cup 3 oz ½ 6 inch twist	nd any other food - examples  How often?  2x/day  1x/week  1x/day  1x/week  2 X Au,  3 X Week	Dates fed Jan 2016-present June -Aug 2016 Sept 2016-present Dec 2018-present Jun June -Aug 2016 Aug 2016-present Dec 2018-present Jun June -Aug 2016 June -A
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Any additional diet information can be listed on the back of o you give any dietary supplements to your pet (for exampupplements)?  EYES DNO  Brand/Conarritine  Brand/Conarrity  Brand/Conarritine  Brand/Conarrity  Brand/Co	Form dry nicrowaved treat treat YLAT	Amount 1 ½ cup 3 oz ½ 6 inch twist	How often?  2x/day 1x/week 1x/day 1x/week 2 X A U 3 X Week	Dates fed Jan 2016-present June -Aug 2016 Sept 2016-present Dec 2018-present Jun June -Aug 2016 Aug 2016-present Dec 2018-present Jun June -Aug 2016 June -A
Food (include specific product and flavor)  utro Grain Free Chicken, Lentil, & Sweet Potato Adult  5% lean hamburger  upperoni original beef flavor  awhide  Um na	Form dry nicrowaved treat treat AM YEA This sheet	Amount 1 ½ cup 3 oz ½ 6 inch twist	How often?  2x/day  1x/week  1x/day  1x/week  2 X Au  3 X Week	Dates fed Jan 2016-present June -Aug 2016 Sept 2016-present Dec 2018-present Jun 2017   present
autro Grain Free Chicken, Lentil, & Sweet Potato Adult    Sweet Potato Adult   Sweet Potato Adult	dry nicrowaved treat treat d/M YEAT YEAT THIS sheet	1 ½ cup 3 oz ½ 6 inch twist	2x/day 1x/week 1x/day 1x/week 2 X du/ 3 X Week	Jan 2016-present June -Aug 2016 Sept 2016-present Dec 2018-present Jun 2017 - June Su
autro Grain Free Chicken, Lentil, & Sweet Potato Adult    Sweet Potato Adult   Sweet Potato Adult	treat treat treat d/M Yeat Yeat Yeat treat	3 oz ½ 6 inch twist	1x/week 1x/day 1x/week 2 X du/ 3 X Week	June -Aug 2016 Sept 2016-present Dec 2018-present Jun 2017 - present
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aurine	ones and giv			
arnitine         □Yes         □No				Amount per day
Yes			_	
Iultivitamin         □Yes         □No				
ish oil				
oenzyme Q10 □Yes □No			-	
oenzyme Q10			-	
			-	
	o Pountu		E00	a tablata t nor decr
xample: Vitamin C Nature	s's Bounty		500 m	g tablets – 1 per day
			-	
ow do you administer pills to your pet? Ú do not give any medications				
I put them directly in my pet's mouth without food				
✓ put them in my pet's dog/cat food I I put them in a Pill Pocket or similar product				
I I put them in a Pill Pocket or similar product I I put them in foods (list foods):				

# Idexx NT-proBNP 5/3/2019



# **Troponin 5/31/2019**



#### Gastrointestinal Laboratory

#### Dr. J.M. Steiner

#### Department of Small Animal Clinical Sciences

# Texas A&MUniversity 4474 TAMU

College Station, TX 77843-4474

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



GI Lab Assigned Clinic ID: 23523

**B6** Tufts Cummings School of Vet Med - Cardiology/Nutrition 200 Westboro Road North Grafton, MA 01536

USA

Test

Phone: Fax:

Animal Name: Owner Name:

Species:

Date Received:

508 887 4696

В6

Canine May 30, 2019

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

**B6** 

434853

Ultra-Sensitive Troponin I Fasting

Result B6 ng/mL Reference Interval ≤0.06

Assay Date

05/31/19

Comments:

GI Lab Contact Information

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

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

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

Cardiology Liaison: 508-887-4696

Date:

**B6** 



# **Cardiology Appointment Report** DCM STUDY

Attending Cardiologist  John E. Rush DVM, MS, DACVIM	(Cardiology), DAC	CVECC
B6	(carage)	
Cardiology Resident:		
	B6	<u> </u>
Cardiology Technician: B6		
Student B6 V'20		
<u>Presenting Complaint</u> : DCM study reche concerns.	ck; o reports doir	ing well at home, good energy, no other
Concurrent Diseases: None		
	_	y rDVM for elevated BNP B6, rDVM prompted nild systolic dysfunction w/mild IAE. Transitioned
Diet and Supplements:		

Purina sensitive stomach

# Cardiovascular History:

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

Shortness of breath or difficulty breathing? N Syncope or collapse? N Sudden onset lameness? N Exercise intolerance? N

Current Medications Pertinent to CV S	ystem:
<b>B6</b>	
Cardiac Physical Examination:	
	<b>B6</b>
Muscle condition:  Normal  Mildmuscleloss	☐ Moderate cachecia ☐ Marked cachecia
Cardiovascular Physical Exam: Murmur Grade:  None  I/VI II/VI III/VI	□ rv/vi □ v/vi □ vi/vi
Murmur location/description:	
Jugular vein:  Bottom 1/3 of the neck  Middle 1/3 of the neck	☐ 1/2 way up theneck ☐ Top 2/3 of theneck
Arterial pulses:  Weak Fair Good Strong	Bounding Pulse delicits Pulsus paradoxus Other:
Arrhythmia:  None Sirus arrhythmia Premature beats	Bradycardia Tachycardia
Gallop: □ Yes ☑ No □ Intermittent	Pronounced Other:
Pulmonary assessments:	Pulmonary graddes

<ul> <li>✓ Mild dyspnea</li> <li>✓ Marked dyspnea</li> <li>✓ Normal BV sounds</li> </ul>	☐ Wheezes ☐ Upper airway stridor
Abdominal exam:  Normal Hepatomegaly Abdominal distension	Mild ascites Marked ascites
<u>Problems</u> : Hx of asymptomatic heart disease	
<u>Differential Diagnoses</u> : Nutritional DCM	
Diagnostic plan:  Echocardiogram Chemistry profile ECG Renal profile Blood pressure  Echocardiogram Findings:	☐ Dialysis profile ☐ Thoracic radiographs ☑ NT-proBNP ☑ Troponin I ☐ Other tests:
	<b>B6</b>
Mitral inflow:  Summated  Normal  Delayed relaxation	Pseudonormal Restrictive
ECG findings: B6	
Assessment and recommendations: Stable systolic function compared to previous e	xams, despite mild increase in LV cavity size (r/o daily
variation or interobserver variation).	B6
	B6

# Final Diagnosis:

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

#### **Heart Failure Classification Score:** ISACHC Classification: IIIa 🔲 la **⊿** lb IIIb **ACVIM Classification:** ■ A ■ B1 **■** B2 M-Mode **IVSd** cm LVIDd cm LVPWd cm IVSs. cm **LVIDs** cm LVPWs cm EDV(Teich) ml ESV(Teich) mΙ EF{Teich} % %FS % **B6** SV(Teich) ml Max LA cm Time ms HR **BPM** CO(Teich) l/min CI(Teich) I/minm Ao Diam cm LA Diam cm LA/Ao **TAPSE** cm **EPSS** cm M-Mode Normalized (0.290 - 0.520) **IVSdN** LVIDdN (1.350 - 1.730)! **B6** $\{0.330 - 0.530\}$ ! LVPWdN **IVS**sN (0.430 - 0.710)! LVIDsN $\{0.790 - 1.140\}$ ! LVPWsN $\{0.530 - 0.780\}$ **2D** IVSd cm **B6** LVIDd cm LVPWd cm EDV(Teich) ml

	,·	
I <b>V</b> Ss		cm
LVIDs		cm
LVPWs		cm
ESV(Teich)		ml
EF(Teich)		%
%FS		%
SV(Teich)		ml
LV Major	B6	cm
LV Minor	БО	cm
Sphericity Index		
LVLd A4C		cm
LVEDV MOD A4C		ml
LVLs A4C		cm
LVESV MOD A4C		ml
LVEF MOD A4C		%
SV MOD A4C		ml
<u>Doppler</u>	,	
MV E Vel		m/s
MV DecT		ms
MV Dec Slope		m/s
MV A Vel		m/s
MV E/A Ratio		
E		m/s
E/E'		
Α'	<b>B6</b>	m/s
S'	<b>D</b> 0	m/s
IVRT		ms
AV Vmax		m/s
AV maxPG		mmHg
PV Vmax		m/s
PV maxPG		mmHg
E'		m/s
_		

A'

m/s

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

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

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

Freeman - EON-380742

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

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

A "PDF" report by name "2063133-report.pdf" is attached to this email notification for your reference. Please note that all documents received in the report are compressed into a zip file by name "2063133-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-380742

ICSR #: 2063133

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

AE Date	01/15/2019	Number Fed/Exposed	6
Best By Date		Number Reacted	3
Animal Species	Dog	Outcome to Date	Stable
Breed	Bulldog		
Age	B6 Years		
District Involved	PFR-New England DO		

#### **Product information**

**Individual Case Safety Report Number: 2063133** 

Product Group: Pet Food

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

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

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

**Submission Type:** Initial

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

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

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

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

# **Sender information**

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

$\sim$		. •
Owner	intorm	iation
O 11 11 CI	1111 (1111	

**B6** 

**USA** 

To view this PFR Event, please click the	HIIK	Dei	low:
DC		-1	

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

**B6** 

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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Report Details - EON-3	380742					
ICSR:	2063133					
Type Of Submission:	Initial					
Report Version:	FPSR.FDA.PETF.V.V1					
Type Of Report:	Adverse Event (a symptom, reaction or disease associated with the product)					
Reporting Type:	Voluntary					
Report Submission Date:	2019-02-25 07:43:42 EST					
Reported Problem:	Problem Description:	DCM and CHF diagnosed 1/15/19 Eating BEG diet. 6 dogs being fed t far, 3 have been diagnosed with DCM/ARVC. One other had a normal proBNP and 2 others will be tested Diet has been changed to Royal C Cardiac and we will recheck in 3 months. I have sample of dry and car				
	Date Problem Started:	01/15/2019				
	Concurrent Medical Problem:					
	Pre Existing Conditions:	B6				
	Outcome to Date:	Stable				
Product Information:	Product Name:		-free ocean fish dry Wellness core grain free turkey, chicken inned Wellness Hearty Cuts grain-free in gravy chicken and			
	Product Type:	Pet Food				
	Lot Number:					
	Product Use Information:		Please see diet history			
	Manufacturer /Distributor Information:	H2				
	Purchase Location Information:					
Animal Information:	Name:	B6				
	Type Of Species:					
	Type Of Breed:	::4 				
	Gender:					
	Reproductive Status:					
	2 8 000 0 100	19.8 Kilogram				
	::	B6 Years				
	Number of Animals Given the Product:	** <del>*</del>				
	Number of Animals Reacted:					
	Owner Information:	Owner Information provided:	Yes			
		Contact:	Name: B6			
			Phone: B6			
			Email: B6			
		Address:	<b>B6</b>			
			United States			
	Healthcare Professional	Practice Name:	Tufts Cummings School of Veterinary Medicine			
	Information:	Contact:	-			
			Phone: (508) 887-4523			
			Email: lisa.freeman@tufts.edu			
	3	1				

			01536 United States
Sender Information:	Name:	Lisa Freeman	
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States	
	Contact:	Phone:	5088874523
		Email:	lisa.freeman@tufts.edu
	Permission To Contact Sender:	Yes	
	Preferred Method Of Contact:	Email	
Additional Documents:			
	Attachment:	rpt_medical_record_	_preview.pdf
	Description:	Med records	
	Type:	Medical Records	

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

To: Jones, Jennifer L

**Sent:** 10/18/2018 2:19:15 PM

Subject: Updates: Taurine Result for B6 and B6

**Attachments:** T\_23038.jpg; T\_23040.jpg

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

From: Tufts Veterinary Cardiology Service Sent: Wednesday, October 17, 2018 9:28 AM To: Freeman, Lisa < lisa.freeman@tufts.edu>

Subject: FW: Taurine Result

Veterinary Cardiology Service Tufts University Cummings School of Veterinary Medicine

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

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

Sent: Tuesday, October 16, 2018 6:37 PM

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

Subject: Taurine Result

Hello -

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

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

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

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

Thank you -

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

Phone: 530-752-5058

Email: ucd.aminoacid.lab@ucdavis.edu

23038 PL

# **Sample Submission Form**

Amino Acid Laboratory University of California, Davis 1020 Vet Med 3B 1089 Veterinary Medicine Drive Davis, CA 95616

T-1 (520)752 5050 5-

Tel: (530)752-5058, Fax: (530)752-4698

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

UC CUSTOMERS Non-federal fun to bill:	ONLY: ds ID/Account Number	
	B6 B6 4:09 SHIP w ICE PACK PANEL Lithium Heparin	(S,TAURINE

Vet/Tech Contact: B6	
Company Name: Tufts Cummings School of Vet N	Med - Clinical Pathology Laboratory
Address: 200 Westboro Road	/
North Grafton, MA 01536	
Email: clinpath@tufts.edu; cardiovet@tufts.edu	<u> </u>
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	
Sample Type: Plasma Whole Blood Complete Amine	Besterostand Besterostand
Taurine Results (nmol/ml)	
Plasma: B6 Whole Blood: B6	Urine: Food:

# Reference Ranges (nmol/ml)

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

23040

# **Sample Submission Form**

Amino Acid Laboratory University of California, Davis 1020 Vet Med 3B 1089 Veterinary Medicine Drive Davis, CA 95616

Vet/Tech Contact:

Tel: (530)752-5058, Fax: (530)752-4698

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

**B6** 

UC CUSTOMERS Non-federal fun to bill:	S ONLY:  ads ID/Account Number
	B6 B6 B6 2:42 PM SHIP w ICE PACKS, TAURINE (WHOLE BLOOD) Lithium Heparin

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

# Reference Ranges (nmol/ml)

		Plasma	Who	ole Blood
	Normal Range	No Known Risk for	Normal Range	No Known Risk for
		Taurine Deficiency		<b>Taurine Deficiency</b>
Cat	80-120	>40	300-600	>200
Dog	60-120	>40	200-350	>150

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

**Sent:** 10/8/2018 7:12:54 PM

Subject: Taste of the Wild Pacific Stream (dry): Lisa Freeman - EON-367849

Attachments: 2055795-report.pdf; 2055795-attachments.zip

A PFR Report has been received and PFR Event [EON-367849] has been created in the EON System.

A "PDF" report by name "2055795-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 "2055795-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-367849

ICSR #: 2055795

**EON Title:** PFR Event created for Taste of the Wild Pacific Stream (dry); 2055795

AE Date	02/02/2018	Number Fed/Exposed	2
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	Doberman Pinscher		
Age	<b>B6</b> Years		
District Involved	PFR-New England DO		

# **Product information**

**Individual Case Safety Report Number: 2055795** 

Product Group: Pet Food

**Product Name:** Taste of the Wild Pacific Stream (dry)

**Description:** DCM and CHF diagnosed 2/2/18. Owner did not change diet after diagnosis. Just rechecked echo and no improvement. Taurine levels pending and will echo other dog in household on same diet to screen.

**Submission Type:** Initial

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

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

**Number of Animals Treated With Product: 2** 

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

Product Name	Lot Number or ID	Best By Date
Taste of the Wild Pacific Stream (dry)		

# **Sender information**

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

Owner information	
<b>B6</b>	TISA

	To view this PFR Event, please click the link below:
	B6
	To view the PFR Event Report, please click the link below:
-	<b>B6</b>

\_\_\_\_\_

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Report Details - EON-	367849		
ICSR:	2055795		
Type Of Submission:	Initial		
Report Version:	FPSR.FDA.PETF.V.V1		
Type Of Report:	Adverse Event (a symptom,	, reaction or disease ε	issociated with the product)
Reporting Type:	Voluntary		
Report Submission Date:	) ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************	
Reported Problem:	Problem Description:		nosed 2/2/18. Owner did not change diet after diagnosis. Just no improvement. Taurine levels pending and will echo other same diet to screen.
	Date Problem Started:	02/02/2018	
	Concurrent Medical Problem:	0.00 0.00	
	Pre Existing Conditions	B6	
	Outcome to Date:	Stable	
Product Information:	Product Name:	Taste of the Wild Pag	cific Stream (drv)
	Product Type:		
	Lot Number:		
	Package Type:		
	Product Use Information:		
	Manufacturer /Distributor Information:	2.9 2.4	
	Purchase Location Information:	V-4	
Animal Information:	Name:	B6	
FILLIAN III. W. S.	Type Of Species:	1j	
		Doberman Pinscher	
	Gender:	::9 ::	
	Reproductive Status:	:	
		26.8 Kilogram	
	)	B6 Years	8
	Assessment of Prior Health:	Excellent	
	Number of Animals Given the Product:	2	
	Number of Animals Reacted:	7.5	
	Owner Information:	Owner Information provided:	Yes
		Contact:	Name: B6
			Phone: B6
			Email: B6
		Address:	
			<b>B6</b>
			United States
	Healthcare Professional Information:		Tufts Cummings School of Veterinary Medicine  Name: Lisa Freeman  Phone: (508) 887-4523

			Email: lisa.freeman@tufts.edu
		Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States
Sender Information:	Name:	Lisa Freeman	
		200 Westboro Rd North Grafton Massachusetts 01536 United States	
	Contact:		5088874523
		Email:	lisa.freeman@tufts.edu
	Permission To Contact Sender:		
	Preferred Method Of Contact:	Email	
Additional Documents:			
	Attachment:	B6 compiled recor	
		<b>B6</b> compiled reco	rds
	туре.	Medical Records	

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

 To:
 Jones, Jennifer L

 Sent:
 10/11/2018 9:32:04 PM

 Subject:
 B6 Taurine result

Attachments: T\_22910.jpg

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

From: Tufts Veterinary Cardiology Service Sent: Thursday, October 11, 2018 4:57 PM To: Freeman, Lisa lisa.freeman@tufts.edu>

Cc: B6

Subject: FW: Taurine result

Veterinary Cardiology Service Tufts University Cummings School of Veterinary Medicine

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

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

Sent: Thursday, October 11, 2018 4:55 PM

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

Subject: Taurine result

Hello -

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

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

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

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

Thank you -

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

Phone: 530-752-5058

Email: <u>ucd.aminoacid.lab@ucdavis.edu</u>

# Taurine deficiency in dogs with dilated cardiomyopathy: 12 cases (1997–2001)

Andrea J. Fascetti, VMD, PhD, DACVN, DACVIM; John R. Reed, DVM, MS, DACVIM; Quinton R. Rogers, PhD, DACVN; Robert C. Backus, DVM, PhD

**Objective**—To determine signalment, history, clinical signs, blood and plasma taurine concentrations, electrocardiographic and echocardiographic findings, treatment, and outcome of dogs with low blood or plasma taurine concentrations and dilated cardiomyopathy (DCM).

Design—Retrospective study.

**Animals**—12 client-owned dogs with low blood or plasma taurine concentrations and DCM.

**Procedure**—Medical records were reviewed, and clinical data were obtained.

**Results**—All 12 dogs were being fed a commercial dry diet containing lamb meal, rice, or both as primary ingredients. Cardiac function and plasma taurine concentration improved with treatment and taurine supplementation. Seven of the 12 dogs that were still alive at the time of the study were receiving no cardiac medications except taurine.

Conclusions and Clinical Relevance—Results suggest that consumption of certain commercial diets may be associated with low blood or plasma taurine concentrations and DCM in dogs. Taurine supplementation may result in prolonged survival times in these dogs, which is not typical for dogs with DCM. Samples should be submitted for measurement of blood and plasma taurine concentrations in dogs with DCM, and taurine supplementation is recommended while results of these analyses are pending. (*J Am Vet Med Assoc* 2003;223:1137–1141)

**B4** 

В4

**B4** 

# Assessment of protein and amino acid concentrations and labeling adequacy of commercial vegetarian diets formulated for dogs and cats

Kayo Kanakubo, BVSc; Andrea J. Fascetti, VMD, PhD; Jennifer A. Larsen, DVM, PhD

**Objective**—To determine measured crude protein (CP) and amino acid (AA) concentrations and assess labeling adequacy of vegetarian diets formulated for dogs and cats.

Design—Cross-sectional study.

Sample—13 dry and 11 canned vegetarian diets for dogs and cats.

**Procedures**—Concentrations of CP and AAs were determined for each diet. Values were compared with the Association of American Feed Control Officials (AAFCO) Dog and Cat Food Nutrient Profiles. Product labels were assessed for compliance with AAFCO regulations.

**Results**—CP concentration (dry-matter basis) ranged from 19.2% to 40.3% (median, 29.8%). Minimum CP concentrations for the specified species and life stage were met by 23 diets; the remaining diet passed appropriate AAFCO feeding trials. Six diets did not meet all AA minimums, compared with the AAFCO nutrient profiles. Of these 6 diets, 1 was below AAFCO minimum requirements in 4 AAs (leucine, methionine, methionine-cystine, and taurine), 2 were below in 2 AAs (lysine and tryptophan), and 1 was below in 1 AA (tryptophan). Only 3 and 8 diets (with and without a statement of calorie content as a requirement, respectively) were compliant with all pet food label regulations established by the AAFCO.

**Conclusion and Clinical Relevance**—Most diets assessed in this study were not compliant with AAFCO labeling regulations, and there were concerns regarding adequacy of AA content. Manufacturers should ensure regulatory compliance and nutritional adequacy of all diets, and pets fed commercially available vegetarian diets should be monitored and assessed routinely. (*J Am Vet Med Assoc* 2015;247:385–392)



JAVMA, Vol 247, No. 4, August 15, 2015

Scientific Reports

#### From this month's AJVR =

#### Electrocardiogram reference intervals for clinically normal wild-born chimpanzees (Pan troglodytes)

Rebeca Atencia et al

**Objective**—To generate reference intervals for ECG variables in clinically normal chimpanzees (*Pan* troglodytes).

**Animals**—100 clinically normal (51 young [< 10 years old] and 49 adult [≥ 10 years old]) wild-born chimpanzees.

**Procedures**—Electrocardiograms collected between 2009 and 2013 at the Tchimpounga Chimpanzee Rehabilitation Centre were assessed to determine heart rate, PR interval, QRS duration, QT interval, QRS axis, P axis, and T axis. Electrocardiographic characteristics for left ventricular hypertrophy (LVH) and morphology of the ST segment, T wave, and QRS complex were identified. Reference intervals for young and old animals were calculated as mean ± 1.96 • SD for normally distributed data and as 5th to 95th percentiles for data not normally distributed. Differences between age groups were assessed by use of unpaired Student t tests.

Results—Reference intervals were generated for young and adult wild-born chimpanzees. Most animals had sinus rhythm with small or normal P wave morphology; 24 of 51 (47%) young chimpanzees and 30 of 49 (61%) adult chimpanzees had evidence of LVH as determined on the basis of criteria for humans.

**Conclusions and Clinical Relevance**—Cardiac disease has been implicated as the major cause of death in captive chimpanzees. Species-specific ECG reference intervals for chimpanzees may aid in the diagnosis and treatment of animals with, or at risk of developing, heart disease. Chimpanzees with ECG characteristics outside of these intervals should be considered for follow-up assessment and regular cardiac monitoring. (Am J Vet Res 2015;76:688-693)



See the midmonth issues of IAVMA for the expanded table of contents for the AJVR or log on to avmajournals.avma.org for access to all the abstracts.

See discussions, stats, and author profiles for this publication at: https://www.researchgate.net/publication/6712303

### Taurine and Carnitine in Canine Cardiomyopathy

Article in Veterinary Clinics of North America Small Animal Practice · December 2006	
DOI: 10.1016/j.cvsm.2006.08.010 · Source: PubMed	

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Sherry L Sanderson University of Georgia

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Vet Clin Small Anim 36 (2006) 1325-1343

#### VETERINARY CLINICS SMALL ANIMAL PRACTICE

## Taurine and Carnitine in Canine Cardiomyopathy

Sherry Lynn Sanderson, DVM, PhD

Department of Physiology and Pharmacology, University of Georgia, College of Veterinary Medicine, 501 DW Brooks Drive, Athens, GA 30602, USA

ilated cardiomyopathy (DCM) is one of the most common acquired cardiovascular diseases in dogs [1–4]. Although few studies of the prevalence of DCM in the overall population of dogs have been reported, estimates range from 0.5% to 1.1% [5,6]. Only degenerative valvular disease and, in some regions of the world, heartworm infection are more common causes of cardiac morbidity and mortality in dogs. DCM is seen most commonly in large and giant breeds of dogs, although its frequency seems to be increasing in medium-sized breeds, such as the English and American cocker spaniels [4–8]. It has been reported rarely in small and miniature breeds of dogs [9].

DCM is particularly challenging to veterinarians because the cause is often unknown and can vary among dog breeds [10]. Because most cases of DCM in dogs are classified as idiopathic, most therapies can be classified as "Band-Aid therapies" that palliate the effects of this disease for a short duration but do little to address the primary disease process. Therefore, DCM is almost always a progressive disease, and most dogs will eventually succumb to their disease. Survival times in dogs with DCM are variable and can be influenced by several factors, including breed. However, the prognosis for survival of dogs with DCM remains poor, with reported survival rates of 17.5% at 1 year and 7.5% at 2 years [11–13]. Until recently, reported cases of DCM reversal in dogs were very rare.

With advancements in echocardiology, diagnostic capabilities in canine cardiology have improved dramatically over the past 2 decades. Therapeutic advances have made surprisingly little progress. Symptomatic treatment is the standard care and outcome remains poor.

Recently, more promising therapies for dogs with DCM have resulted from a clearer understanding of the importance of biochemistry and nutrition in managing this disease. Nutrition is now widely accepted as an important adjunct to medical therapy in dogs with DCM.

E-mail address: sanderso@vet.uga.edu

0195-5616/06/\$ – see front matter doi:10.1016/j.cvsm.2006.08.010

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SANDERSON

From:	PFR Event <pre>creation@fda.hhs.gov&gt;</pre>
То:	Cleary, Michael *; HQ Pet Food Report Notification B6
Sent:	1/22/2018 11:28:12 PM
Subject:	California Natural Grain-Free Kangaroo and Red Lentils Recipe: <b>B6</b> - EON-345833
Attachments:	2040529-report.pdf; 2040529-attachments.zip

A PFR Report has been received and PFR Event [EON-345833] has been created in the EON System.

A "PDF" report by name "2040529-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 "2040529-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-345833

ICSR #: 2040529

EON Title: PFR Event created for California Natural Grain-Free Kangaroo and Red Lentils Recipe; 2040529

AE Date	08/18/2017	Number Fed/Exposed	4
Best By Date		Number Reacted	4
Animal Species	Dog	Outcome to Date	Died Euthanized
Breed	Retriever - Labrador		
Age	5 Years		
District Involved	PFR <b>B6</b> DO		

#### **Product information**

**Individual Case Safety Report Number: 2040529** 

Product Group: Pet Food

Product Name: California Natural Grain-Free Kangaroo and Red Lentils Recipe

**Description:** B6 had been diagnosed with a new heart murmur a couple of months earlier, then developed difficulty breathing and cough and was diagnosed with congestive heart failure. Echocardiogram showed evidence of dilated cardiomyopathy and chronic degenerative valve disease. B6 is the biologic niece of

**B4** - FDA ICSR ID 2040528

**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: Died Euthanized

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

Product Name	Lot Number or ID	Best By Date
California Natural Grain-Free Kangaroo and Red Lentils Recipe		

Sender information	
B6	
USA	
Owner information	_
<b>B6</b>	USA
L	j

To view this PFR Event, please click the link bel	ow:
B6	

To view the PFR 1	Event Report, please click the link below:
	R6
В6	
i	1

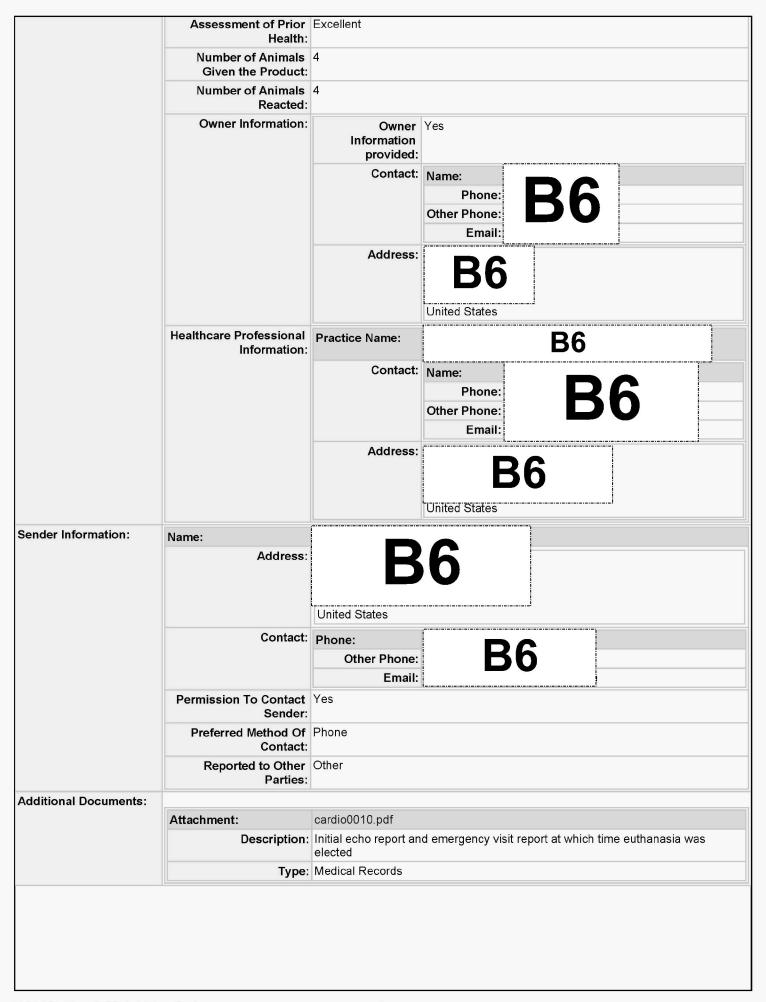
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Failure to adhere to the above provisions could result in removal from the approved distribution list. If you think you received this email in error, please send an email to FDAReportableFoods@fda.hhs.gov immediately.

Report Details - EON-	345833				
ICSR:	2040529				
Type Of Submission:	Initial				
Report Version:	FPSR.FDA.PETF.V.V1				
Type Of Report:	Adverse Event (a symptom, reaction or disease associated with the product)				
Reporting Type:	Voluntary				
Report Submission Date:	:) ;;				
Reported Problem:	Problem Description:	B6 had been diagnosed with a new heart murmur a couple of months earlier, then developed difficulty breathing and cough and was diagnosed with congestive heart failure. Echocardiogram showed evidence of dilated cardiomyopathy and chronic degenerative valve disease. B6 is the biologic niece of B6 FDA ICSR ID 2040528			
	Date Problem Started:	08/18/2017			
	Concurrent Medical Problem:	Yes			
	Pre Existing Conditions	B6	B6		
	Outcome to Date:	?			
	Date of Death:	B6 7			
Product Information:	Product Name:	California Natural G	rain-Free Kangaroo and Red Lentils Recipe		
	Product Type:	Pet Food			
	Lot Number:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	Package Type:	BAG			
	Possess Unopened Product:				
	Possess Opened Product:	No			
	Product Use Information:	Description:	B6 had been fed this product for years for management of food allergy.		
		Last Exposure Date:			
		Product Use Stopped After the Onset of the Adverse Event:	Yes		
		Adverse Event Abate After Product Stop:			
		Product Use Started Again:	No		
		Perceived Relatedness to Adverse Event:	Probably related		
	Manufacturer /Distributor Information:				
	Purchase Location Information:				
Animal Information:	Name:	B6			
	Type Of Species:	Dog			
	Type Of Breed:	d: Retriever - Labrador			
	Gender:	er: Female			
	Reproductive Status:	Neutered			
	Weight:	ht: 25.6 Kilogram			
	Age:	ge: 5 Years			



PL 2 1015

WB 21016

#### **Amino Acid Laboratory Sample Submission Form**

Amino Acid Laboratory 1089 Veterinary Medicine Drive Davis, Ca 95616

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

Email: ucd.aminoacid.lab@ucdavis.edu

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

Veterinarian Contact:	В6				
Clinic/Company Name	В6				
Address:	В6				
Email:	В6				
Telephone:		B6		<u>52</u>	
Billing Contact E	36		Email	В6	1
Patient Name B6			Species: Can	ine	
Breed: Goldendoodle			Owner's Nan	ne:	B6
Current Diet : Zignature	Kangaroo				
Sample type: Plasma	Whole Blood	Urine Fo	ood Other _		
Test: Taurine Cor	mplete Amino Acids	Other:			
Taurine Results (lab use Plasma: <b>B6</b> V	only) Vhole Blood: <b>B</b>	6 Urine	e: Food	d:	
	i	<del>-</del>			<del></del>

	Plasma	Plasma (nMol/ml)		od (nMol/ml)
	Normal Range	No known risk for deficiency	Normal Range	No known risk for deficiency
Cat	80-120	>40	300-600	>200
Dog	60-120	>40	200-350	>150

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

Report Details - EON-	365610			
ICSR:	2054966			
Type Of Submission:	Initial			
Report Version:	FPSR.FDA.PETF.V.V1			
Type Of Report:	Adverse Event (a symptom, reaction or disease associated with the product)			
Reporting Type:	Voluntary			
Report Submission Date:	.g)			
Reported Problem:	Problem Description:	DCM and CHF - had been having respiratory signs for ~1 month prior to diagnosis at Tufts Littermate is B6 (already reported by owner after being diagnosed with DCM and CHF in July 2018) Owner has another Great Dane at home (~1 year of age) eating the same diet that will be screened soon Owner approved submission of this report and talking to FDA Will send rest of medical records by email (sorry - too many to upload)		
	Date Problem Started:	09/12/2018		
	Concurrent Medical Problem:	Yes		
	Pre Existing Conditions:	Dermatitis		
	Outcome to Date:	Stable		
Product Information:	Product Name:	4Health beef stew canned		
	Product Type:	Pet Food		
	Lot Number:			
	Package Type:	CAN		
	Product Use Information:	Description: 2 tablespoons 3x/day since Jan, 2017		
	Manufacturer /Distributor Information:			
	Purchase Location			
	Information:			
	Product Name:	Taste of the Wild Prey Beef dry (will provide full diet history)		
	Product Type:	Pet Food		
	Lot Number:			
	Package Type:	BAG		
	Product Use	Description: 9 cups/day		
	Information:	First Exposure Date: 06/01/2018		
	Manufacturer /Distributor Information:			
	Purchase Location Information:			
Animal Information:	Name:	B6		
	Type Of Species:	Dog		
	Type Of Breed:	Great Dane		
	Gender:			
	Reproductive Status:	;; Neutered		
	-5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	t: 69.5 Kilogram		
	Age:	e: B6 Years		
	Assessment of Prior Health:	Excellent		
	Number of Animals Given the Product:	2		
	Number of Animals Reacted:	1		
	Owner Information:	Owner Yes		

Healthcare Professional Information:   Practice Name:
Healthcare Professional Information:  Healthcare Professional Information:  Contact:  Contact:  Contact:  Address:  Contact:  Name:  Lisa Freeman  Phone: (508) 887-4523  Email: lisa.freeman@tufts.edu  Address:  O1536 United States   Sender Information:  Address:  Contact:  Phone:  Contact:  D186  United States  Tuffs Cummings School of Veterinary Medicine  Tufts Cummings School of Veterinary Medicine  Toffs Cummings School of Veterinary Medicine  Tufts Cummings School of Veterinary Medicine
Healthcare Professional Information:  Practice Name: Tufts Cummings School of Veterinary Medicine  Contact: Name: Lisa Freeman Phone: (508) 887-4523 Email: lisa.freeman@tufts.edu  Address: 200 Westboro Rd North Grafton Massachusetts 01536 United States  Sender Information:  Name: Lisa Freeman  Address: 200 Westboro Rd North Grafton Massachusetts 01536 United States  Contact: Phone: 5088874523
Information:   Contact:   Name:   Lisa Freeman   Phone:   (508) 887-4523   Email:   lisa.freeman@tufts.edu
Contact: Name: Lisa Freeman   Phone: (508) 887-4523   Email: lisa.freeman@tufts.edu
Address: 200 Westboro Rd North Grafton Massachusetts 01536 United States  Sender Information: Lisa Freeman  Address: 200 Westboro Rd North Grafton Massachusetts 01536 United States  Contact: Phone: 5088874523
Address: 200 Westboro Rd North Grafton Massachusetts 01536 United States   Name: Lisa Freeman  Address: 200 Westboro Rd North Grafton Massachusetts 01536 United States  Contact: Phone: 5088874523
Address:  200 Westboro Rd North Grafton Massachusetts 01536 United States  Contact: Phone: 5088874523
Address: 200 Westboro Rd North Grafton Massachusetts 01536 United States  Contact: Phone: 5088874523
Email: lisa.freeman@tufts.edu
Permission To Contact Sender:
Preferred Method Of Contact:
Additional Documents:
Attachment: taurine.pdf
Description: Taurine results
Type: Laboratory Report

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#### **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

Vet/Tech Cont				
Company Nam		Ó	, <u>////// 200////////////////////////////</u>	
Address:	B6			
	B6		www.mansanananananananananananananananananan	A COMMISSION OF THE PROPERTY O
Email:	B6			
Tel:_	B6	Fax:	B6	
Billing Contact	B6		, TAX ID:	
Email:	<b>B6</b>	_ Tel	:B6	5
Patient Name: Species: 6	G I Vanvi			
Sample Type: Test Items:	Plasma Whole Block Taurine Complete	: <del></del>	Food O	her:
Taurine Result	s (nmol/ml)	36		
Plasma:	Whole Blood:	<b>DO</b> Uri	ne:	Food:

#### Reference Ranges (nmol/ml)

	F	lasma	Whole Blood		
	Normal Range	No Known Risk for	Normal Range	No Known Risk for	
		Taurine Deficiency	A - 2" A - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Taurine Deficiency	
Cat	80-120	>40	300-600	>200	
Dog	60-120	>40	200-350	>150	

# REPORT INFORMATION

# **Report Profile**

Report Version FPSR.FDA.PETF.V.V1

Report Category Pet Food Safety Report

**Submitted** 2018-09-16 11:38:42 EST

**FDA ICSR ID** 2054966

Submitted by lisa.freeman@tufts.edu

# **Report Identifying Information**

Enter a title to help you identify this

report

**B6** 

Regulatory Status Voluntary

Type of Submission Initial

What type of report are you submitting? Adverse Event (a symptom, reaction or disease associated with the product)

# **Contact Information - Reporter Sender**

May the FDA contact you to follow-up, if

necessary?

Preferred method of contact: Email

Confirm Email lisa.freeman@tufts.edu

First Name Lisa

Last Name Freeman

**Primary Phone** 5088874523

Other Phone <blank>

Email lisa.freeman@tufts.edu

Country United States

Street Address Line 1 200 Westboro Rd

Street Address Line 2 <blank>

City/Town North Grafton

State Massachusetts

ZIP/Postal Code 01536

### **Contact Information - Healthcare Professional**

Veterinary Practice Name Tufts Cummings School of Veterinary Medicine

First Name Lisa

Last Name Freeman

Primary Phone (508) 887-4523

Email lisa.freeman@tufts.edu

Country United States

Street Address Line 1 200 Westboro Rd

City/Town North Grafton

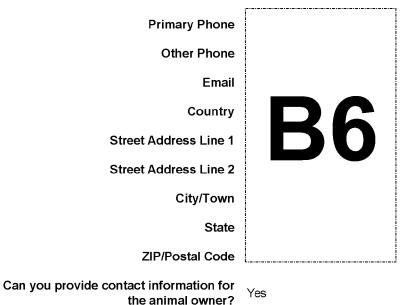
State Massachusetts

ZIP/Postal Code 01536

#### **Contact Information - Animal Owner**

First Name

Last Name



### **Contact Information - Receiver**

Indicate any other parties that you notified about this issue

<blank>

#### **Relevant Details**

Animal Name/Identifier **B6** 

Number of animals given the product 2

Number of animals reacted

Species Dog

**Breed** Great Dane

Age **B6** 

Select Unit of Measure Years

Weight 69.5

Select Unit of Measure Kilogram

Gender Male

Reproductive status Neutered

Was the animal pregnant at time of <blank> event?

Was the animal lactating at time of event? <blank>

Prior to the event, what was the animal's

Excellent overall state of health?

# **Problem Details**

Please describe:

**B6** 

#### **Product Information**

Full name of product as it appears on the

package label

Taste of the Wild Prey Beef dry (will provide full diet history)

Product Type Pet Food

**UPC from label** <black>

Package Type BAG

Package Size <blank>

Select Unit of Measure <black>

Last date of product purchase (estimate if

necessary)

Number purchased on this date <blank>

Do you have a package/container of unopened product from this purchase?

<blank>

<blank>

Do you have a package/container of opened product from this purchase?

<blank>

#### **Product Lots**

#### **Product Use Details**

Describe how the product was used or

9 cups/day

Date the product was first given to the

06/01/2018 animal

Date last fed the animal product from this

purchase:

administered

<blank>

Were there any other foods or products

given to the animal during this time <blank>

Describe how the product was stored before and after opening

<blank>

# **Contact Information**

#### **Relatedness Details**

Amount of time from use of product to onset of the event:

<blank>

Select Unit of Measure

<blank>

Was product use stopped after the onset of the adverse event?

<blank>

How strongly do you believe this product is related to the adverse event?

<blank>

#### **Location Name and Address**

Store/place of purchase <blank>

Country <blank>

Street Address Line 1 <blank>

Street Address Line 2 <blank>

City/Town <blank>

State <blank>

ZIP/Postal Code <blank>

#### **Product Information**

Full name of product as it appears on the

package label

4Health beef stew canned

Product Type Pet Food

UPC from label <blank>

Package Type CAN

Package Size <blank>

Select Unit of Measure <blank>

Last date of product purchase (estimate if

necessary)

<blank>

Number purchased on this date <blank>

Do you have a package/container of

<blank>

Do you have a package/container of opened product from this purchase?

unopened product from this purchase?

<blank>

#### **Product Lots**

#### **Product Use Details**

Describe how the product was used or

administered

2 tablespoons 3x/day since Jan, 2017

Date the product was first given to the

animal

Date last fed the animal product from this

purchase:

period?

<blank>

<blank>

Were there any other foods or products given to the animal during this time

<blank>

Describe how the product was stored

before and after opening

<blank>

#### **Contact Information**

#### **Relatedness Details**

Amount of time from use of product to onset of the event:

<blank>

Select Unit of Measure

<blank>

Was product use stopped after the onset of the adverse event?

<blank>

How strongly do you believe this product is related to the adverse event?

<blank>

# **Location Name and Address**

Store/place of purchase <blank>

Country <blank>

Street Address Line 1 <blank>

Street Address Line 2 <blank>

City/Town <blank>

State <blank>

ZIP/Postal Code <blank>

# **Description and Details**

Date problem started 09/12/2018

Date of recovery <blank>

DCM and CHF - had been having respiratory signs for ~1 month prior to diagnosis at Tufts Littermate is \_\_\_\_\_\_ (already reported by owner after being diagnosed

Describe what happened

with DCM and CHF in July 2018) Owner has another Great Dane at home (~1 year of age) eating the same diet that will be screened soon Owner approved submission of this report and talking to FDA Will send rest of medical records by email (sorry - too

many to upload)

Was a veterinarian consulted? <blank>

Outcome to date Stable

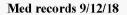
#### **Attached Files**

FILENAME taurine.pdf

Description of Attachment Taurine results

Attachment Type Laboratory Report











# Cummings Veterinary Medical Center

**Foster Hospital for Small Animals** 

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

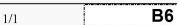
Client: Veterinarian Patient ID:	<b>B6</b>
Patient ID.	
Visit ID:	

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

# **Lab Results Report**

Chemistry 21 (Cobas)	9/13/2018 11:43:20 AM	Accession ID: B6	
Test	Results	Reference Range	Units
GLUCOSE		67 - 135	mg/dL
UREA		8 - 30	mg/dL
CREATININE		0.6 - 2	mg/dL
PHOSPHORUS		2.6 - 7.2	mg/dL
CALCIUM2		9.4 - 11.3	mg/dL
T. PROTEIN		5.5 - 7.8	g/dL
ALBUMIN		2.8 - 4	g/dL
GLOBULINS		2.3 - 4.2	g/dL
A/G RATIO		0.7 - 1.6	
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





# Cummings Veterinary Medical Center

**Foster Hospital for Small Animals** 

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

Client:	
Veterinarian	R6
Patient ID:	DU
Visit ID:	[]

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

# Lab Results Report

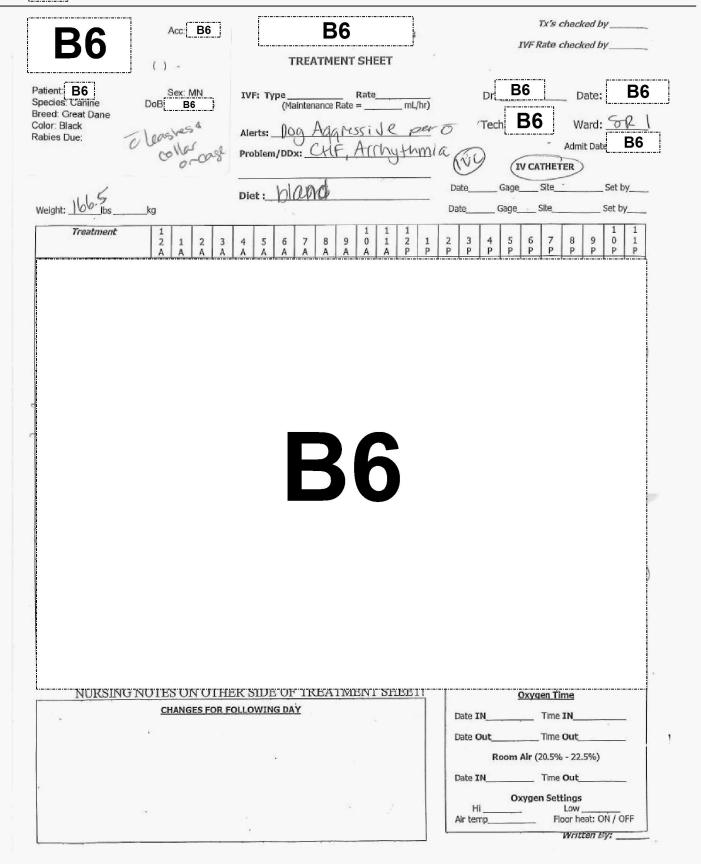
Chemistry 21 (Cobas)	9/1	4/2018 12:28:20 PM	Accession ID: B6	
Test	Results		Reference Range	Units
GLUCOSE			67 - 135	mg/dL
UREA			8 - 30	mg/dL
CREATININE			0.6 - 2	mg/dL
PHOSPHORUS			2.6 - 7.2	mg/dL
CALCIUM2			9.4 - 11.3	mg/dL
T. PROTEIN			5.5 - 7.8	g/dL
ALBUMIN			2.8 - 4	g/dL
GLOBULINS			2.3 - 4.2	g/dL
A/G RATIO			0.7 - 1.6	
SODIUM			140 - 150	mEq/L
CHLORIDE	<b>B6</b>		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)	<u>[</u>		291 - 315	mmol/L





	B6 Date Performed: 09/11/	2018 09:48 РМ	
Patient lofo: ID B6 Name: B6 Owner: B6 Provider: 26	Species: Canine Breed: Great Dane Birthdate   B6 Sex: MN	Clinic: B	6
IVLS-20180911 213512 74864.pdf	<u></u>		
GLU		74-143 mg/dL	
CREA		0.5-1.8 mg/dL	
BUN		7-27 mg/dL	
BUNICREA			
PHOS		2.56.8 mg/dL	
CA		7.9-12.0 mg/dL	
TP		5.28.2g/dL	
ALB		2.34.0g/dL	
GLOB		2.54.5g/dL	
ALB/GLOB			
ALT		10-125U/L	
ALKP		23-212U/L	
GGT	B6	0-11 U/L	Kh
TBIL		0.00.9mg/dL	<b>B6</b>
CHOL		110-320 mg/dL	
AMYL		500-1500 U/L	
LIPA		200-1800 U/L	
Na		144-160 mmol/L	
ĸ		3.5-5.8 mmol/L	
Na/K			
a		109-122 mmol/li	
Osm Calc		m	
RBC		5.65-8.87M/µL	
нст		37.3-61.7%	
HGB		13.1-20.5g/dL	

	61.6-73.5fL	
	21.2-25.9pg	
	32.0-37.9g/dL	
	13.6-21.7%	
	%	
	10.0-110.0K/µL	
	22.3-29.6pg	
	5.05-16.76K/µL	
	%	
	%	
	%	
<b>B6</b>	%	
	%	<b>B6</b>
	2.95-11.64К/µL	
	1.05-5.10K/µL	
	0.16-1.12К/µL	
	0.06-1.23К/µL	
	0.00-0.10К/µL	
	148-484K/µL	
	8.7-13.2fL	
	9.1-19.4fL	
	B6	32.0-37.9g/dL 13.6-21.7%  % 10.0-110.0K/µL 22.3-29.6pg 5.05-16.76K/µL % % % % 2.95-11.64K/µL 1.06-5.10K/µL 0.16-1.12K/µL 0.06-1.23K/µL 148-484K/µL 148-484K/µL 8.7-13.2fL



B6  stient B6 secies: Canine eed: Great Dane olor: Black abies Due:	() SoB		IN.		IVF	∹: Ту		REA						1				,		late c			,	
eed: Great Dane Nor: Black			IN S		IVF	: Ту	ре																(	
												ve hy			a					-	W	ard:		-
16.5					Die		.,,,,,,	XC				-1		_	Da	В		Gage	18	THET Site	20			
Weight: 166 1bs	kg								,	_					Da	ite		Sage_		Site		_	Set by	
Treatment	1 2 A	1 A	2 A	3 A	4 A	5 A	6 A	7 A	8 A	9 A	0 A	1 A	1 2 P	1 P	2 P	3 P	4 P	5 P	6 P	7 P	8 P	9 P	1 0 P	1 1 P
Food		_															_						_	
Water		-									1		7,01						-			_		
Stool		-		,					-			-	-								,		7	
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NURSING						. 70		4	EA	TM	ĖNI	SH	EE'	Γ!		1			Охус	jen Ti	me	,		4
	C	HANG	GES F	OR F	OLLO	WIN	IG DA	ΑY							1	Date 1	(N		-	Time	IN_		9	-
															1	Date (	Out_			Time	Out			-
							437										R	oom	Air (	20.5%	6 - 22	.5%)		
																Date 1	IN_			Time	Out			_



#### **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: (5	30)752-4698

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

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

Vet/Tech Con Company Nar	•	E	36	- A-1		
Address:	В	6				
	В6	<u> </u>		· · · · · · · · · · · · · · · · · · ·		
Email		В6				
Tel:	B6	27,000,000,000,000,000	Fax:	В6		
Billing Contac	t:	B6		TAXID		······································
Email:		В6	Tel:	E	36	
Patient Name Species: Owner's Nam	<u>êat</u> J.Za	6 nℓ B6				
Sample Type: Test Items:	☐ Plasn ☑ Tauri	The same of the sa	lood Urine [ e Amino Acid	Food Other:	Other:	
Taurine Resul		nl) Whole Blood:	B6 Urin	ie:	Food:_	· · · · · ·

#### Reference Ranges (nmol/ml)

	f	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	

			DIET HISTOR			1 .
		er the falla	noiteann anima	e shout vour p	et	al. 1.
Р	et's name: <b>B6</b> Owne	r's name	B	j _	_ Today's date	:9//a//8
1.	How would you assess your pet's appetite?  Example: Poor				resents your pe	et's appetite)
	Poor			Exc	ellent	
2.	Have you noticed a change in your pet's ap □Eats about the same amount as usual □Seems to prefer different foods than usua	Eats less		? (check all that a		
3.	Over the last few weeks, has your pet (checulost weight Gained weight GStaye	k one) ed about the	same weight	Don't know		
4.	Please list below <u>ALL</u> pet foods, people food currently eats. Please include the brand, specific production of the prod	ecific produc	ack, dental chews t, and flavor so w	, rawhides, and a ve know exactly w	ny other food it hat you pet is e	em that your pet eating.
	Food (include specific product and flavo	r) Fo	<u>rm Am</u>	ount How	often?	Fed since
	Examples are shown in the table – please p	rovide enouç	gh detail that we	could go to the sto	ore and buy the	e exact same food.
	Food (include specific product and	Flavor	Form	Amazumt	11	
	Nutro Grain Free Chicken, Lentil, & Sweet F		dry	Amount 1 ½ cup	How often?	Fed since
	85% lean hamburger	Oldio Flour	microwaved	3 oz	2x/day 1x/week	Jan 2018
	Pupperoni original beef flavor		treat	1/3	1x/day	Jan 2015 Aug 2015
	Rawhide		treat	6 inch twist	1x/week	Dec 2015
que						200 2010
	Taste of the Wild Factor Street	M DUDA	an	19 CAD2	3 timps	Appll 2006
	4 Hailth ROOL + Stews	4	Tuef	2,46 espors	7 live C	
	test of Wild Prev Bea	$\Box$	136	CX +4 0 62001	STIME	190 SOL
			+ 7	- Cups	0 times	JUNG 2017
	Huring the Plan Sawar Son	situs Skin	dry	8-10 cups	3 times	8106-PHA
	Fregge ared liver train		Freat	4-5 pieas	1 124 00	0 0000
1	*Any additional diet information can be listed	on the back	of this sheet	1 9-2 PICO 1	1 unce	JUNE 2018
5.	Do you give any dietary supplements to you supplements)?	pet (for exa ease list which Brand/C	mple: vitamins, g ch ones and give Concentration	brands and amou	acids, or any o	ther ount per day
	2 1110000001100 mg   0.0 mg   40					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Multivitamin	· · · · · · · · · · · · · · · · · · ·	When the same state of the sam			
			77.00	· · · · · · · · · · · · · · · · · · ·		
	Other (please list): Example: Vitamin C		ure's Bounty			ets – 1 per day
				The same and the s	·····	<del></del>
,	How do you administer pills to your pet?  I do not give any medications  put them directly in my pet's mouth witho  I put them in my pet's dog/cat food					
	☐ I put them in a Pill Pocket or similar produc ☐ I put them in foods (list foods):	ct				

	Please answer the follo			_ 4	1 1	
	B6		!	et	alia lia	
Ре	t's name Owner's name	В	b [	_ Today's date	: 411a118	
1.	How would you assess your pet's appetite? (mark the po			roponia value e	1	
	Example: Poor_				ers appetite)	
			EXC	ellent		
	Poor		Fyc	ellent		
				J.1.011.L		
2.	Have you noticed a change in your pet's appetite over the DEats about the same amount as usual Defeats less Deems to prefer different foods than usual Dother	e last 1-2 weeks than usual	s? (check all that a	pply) usual		
3.	Over the last few weeks, has your pet (check one)  Lost weight Gained weight Stayed about the	same weight 🛭	Don't know			
4.	Please list below <u>ALL</u> pet foods, people food, treats, snacurrently eats. Please include the brand, specific product	ck, dental chews , and flavor so w	s, rawhides, and a ve know exactly w	ny other food it hat you pet is e	em that your pet eating.	
	Food (include specific product and flavor) For	m Am	ount How	offen?	Fed since	
	Examples are shown in the table – please provide enoug	h detail that we	could go to the sta	ore and huv the	exact same food	
1	- 1984)			no and buy are	oxuot sumo 1000.	
	Food (include specific product and flavor)	Form	Amount	How often?	Fed since	
	Nutro Grain Free Chicken, Lentil, & Sweet Potato Adult	dry	1 ½ cup	2x/day	Jan 2018	
	85% lean hamburger	microwaved	3 oz	1x/week	Jan 2015	
	Pupperoni original beef flavor Rawhide	treat	1/2	1x/day	Aug 2015	
	Rawnide	treat	6 inch twist	1x/week	Dec 2015	
-	Taste of the Wild Partic Stepam Duna	4	150		8 11 5 1	
Ì	1958 - 12 OSIA TO THE SHOPAM POLYM	dry	19 CAD2	3 times	April 2000	
Ī	4 Haith Book + Stew	wet	2 46 PSDONS	2+m65	7-10-17-17	
ĺ	Task of Wild Prev Beat	300	2 6 r 52	3 times	Jan 2017	
1		1	CAD	<u> </u>	On M OUIT	
ŀ	Hunny to Plan Sower Sensin Sin	dry	8-10 cups	3 times	8106-PUA	
-	10070 dood hook doo	1			333	
L	truck area liven trait	+12a+	4-5 preas	1 unce	JUN 2018	
	*Any additional diet information can be listed on the back	of this sheet		aday	**************************************	
5.	Taurine	h ones and give oncentration	brands and amou	acids, or any o ints: Amo	ther ount per day	
	Other (please list):  Example: Vitamin C Nature's Bounty 500 mg tablets – 1 p					
		4 4 4		<u> </u>		
	The state of the s	2011 - 2011	- was a second of the second o			
in the second	How do you administer pills to your pet?  I do not give any medications  put them directly in my pet's mouth without food  I put them in my pet's dog/cat food  I put them in a Pill Pocket or similar product  I put them in foods (list foods):					

# Cummings Veterinary Medical Center

Dations

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

#### Discharge Instructions

Name B6	Name	B6		Patient ID: B6
Species: Canine	Address			
Black Male (Neutered) Great Dane	100	<b>B6</b>		
Birthdate: B6	·			
Attending Cardiologist:  John E. Rush DVM, MS, DACVIM	(Cardiology), D/	VCVEOC		
B0				
Cardiology Resident:		i 		
В	6			
Cardiology Technician:	<u>-</u>			
B6				
Student: B6 , <b>V'19</b>				
Admit Date: 9/12/2018 11:24:19 AM Discharge Date: 9/14/2018				
Diagnoses:				
Dilated cardiomyopathy (DCM) with cong	estive heart fail	ure.		
Atrial fibrillation with ventricular arrhythm	nia			
Case summary: Thank you for bringing B6 to Tufts for muscle disease called dilated cardiomyop				
characterized by thinning of the walls of t				
chambers of the heart. Many dogs with D require medical management. B6 has	CM will also ha	ve significant	arrhythmias whi	ich can be life threatening and also
fibrillation and ventricular arrhythmias. Th				
meaning that fluid is backing up into the k				
the changes to the heart muscle, however				
comfortable and have him breathing easi				_ , ,
Diagnostic test results and findings:				

#### ------

Echocardiogram findings: All chambers of the heart are enlarged. There is severe dysfunction of the heart's ability to contract. The mitral valve leaflets are not dosing together well due to the dilation of the heart (they are being pulled apart as the heart increases in size). Moderate amount of pleural effusion (fluid around the lungs) and ascites (fluid in the abdomen).

ECG findings: The ECG showed atrial fibrillation with occasional ventricular arrhythmia. Atrial fibrillation is an abnormal heart rhythm. Once dogs develop atrial fibrillation it is extremely rare for them to regain their normal

heart rhythm. Our main goal now is to decrease the heart rate as much as possible since right now his heart rate is too high. The ventricular arrhythmia that he is having is malignant, meaning it can potentially lead to collapsing episodes and unfortunately even death. The amiodarone medication he is on will hopefully further control this ventricular rhythm as i further saturates the heart tissue as we keep dosing it.

Labwork findings: His kidneys are tolerating the medications well right now. We will want to recheck these values soon.

#### Monitoring at home:

- We would like you to monitor your dog's breathing rate and effort at home, ideally during sleep or at a time of rest.
   The doses of drugs will be adjusted based on the breathing rate and effort.
- O In general, most dogs with heart failure that is well controlled have a breathing rate at rest of less than 35 breaths per minute. In addition, the breathing effort, noted by the amount of bely 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 entro dose (B6) 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 dinic.
- O There are instructions for monitoring breathing, and a form to help keep track of breathing rate and drug closes, on the Tufts HeartSmart web site (http://vet.tufts.edu/heartsmart/at-home-monitoring/).
- We also want you to watch for weakness or collapse, a reduction in appetite, worsening cough, or distention of the belly as these findings indicate that we should do a recheck examination.
- If you have any concerns, please call or have your dog evaluated by a veterinarian. Our emergency clinic is open 24hours/day.

Recommended Medications:		
Recommended Medicalions		
	<b>B6</b>	

Diet suggestions:

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

Your dog's usual diet may also have more sodium than recommended - we want him/her to continue to eat his/her normal diet for the first 7 to 14 days so we can make sure he is tolerating medications well, but after that time we would recommend slowly introducing one of the lower sodium diets on the HeartSmart list (25% of the new diet and 75% old diet for 2-3 days, then 50.50, etc.). We also want  $\frac{100}{100}$  to eat a main stream, non grain-free diet from now on.

#### Exercise Recommendations:

For the first 7 to 10 days after starting medications for heart failure we recommend very limited activity. Leash walking only is ideal, and short walks to start. Once the heart failure is better controlled, then slightly longer walks are acceptable. However, if you find that 86 is lagging behind or needs to stop on a walk then this was too long a walk and shorter walks are advised in the future. Repetitive or strenuous high energy activities (repetitive ball chasing running fast off-leash, etc.) are generally not advised at this stage of heart failure.

#### Recheck Visits:

Arecheck visit is recommended in 1-2 weeks after any medication adjustments are made. At this visit wewill check your dog's breathing effort and heart function, check his ECG, and check for fluid around the lungs and in the belly. Please call or email to schedule this appointment with us. A recheck echocardiogram is recommended in 3-4 months.

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

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

#### Prescription Refill Discloimer:

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

#### Ordering Food:

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

#### Clinical Trials:

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

Case: B6 Owner B6 Discharge Instructions

# REPORT INFORMATION

# **Report Profile**

Report Version FPSR.FDA.PETF.V.V1

Report Category Pet Food Safety Report

**Submitted** 2018-09-16 11:38:42 EST

**FDA ICSR ID** 2054966

Submitted by lisa.freeman@tufts.edu

# **Report Identifying Information**

Enter a title to help you identify this report B6

Regulatory Status Voluntary

Type of Submission Initial

What type of report are you submitting? Adverse Event (a symptom, reaction or disease associated with the product)

# **Contact Information - Reporter Sender**

May the FDA contact you to follow-up, if

necessary?

Preferred method of contact: Email

Confirm Email lisa.freeman@tufts.edu

First Name Lisa

Last Name Freeman

**Primary Phone** 5088874523

Other Phone <blank>

Email lisa.freeman@tufts.edu

Country United States

Street Address Line 1 200 Westboro Rd

Street Address Line 2 <blank>

City/Town North Grafton

State Massachusetts

ZIP/Postal Code 01536

# **Contact Information - Healthcare Professional**

Veterinary Practice Name Tufts Cummings School of Veterinary Medicine

First Name Lisa

Last Name Freeman

**Primary Phone** (508) 887-4523

Email lisa.freeman@tufts.edu

Country United States

Street Address Line 1 200 Westboro Rd

City/Town North Grafton

State Massachusetts

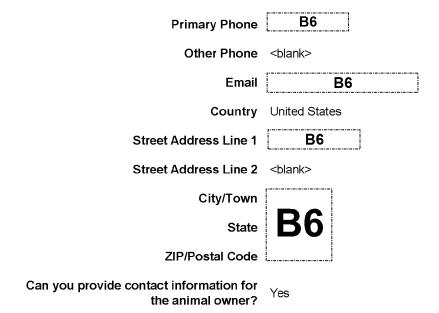
ZIP/Postal Code 01536

# **Contact Information - Animal Owner**

**First Name** 

**B6** 

**Last Name** 



# **Contact Information - Receiver**

Indicate any other parties that you notified about this issue

<blank>

#### **Relevant Details**

Animal Name/Identifier B6 Number of animals given the product 2 Number of animals reacted Species Dog **Breed** Great Dane Age B6 Select Unit of Measure Years Weight 69.5 Select Unit of Measure Kilogram Gender Male Reproductive status Neutered Was the animal pregnant at time of <blank> event? Was the animal lactating at time of event? <blank> Prior to the event, what was the animal's Excellent

overall state of health?

# **Problem Details**

Please describe:

**B6** 

#### **Product Information**

Full name of product as it appears on the

package label

Taste of the Wild Prey Beef dry (will provide full diet history)

Product Type Pet Food

UPC from label <blank>

Package Type BAG

Package Size <blank>

Select Unit of Measure <blank>

Last date of product purchase (estimate if

necessary)

Number purchased on this date <blank>

Do you have a package/container of unopened product from this purchase?

<blank>

<blank>

Do you have a package/container of opened product from this purchase?

<black>

# **Product Lots**

# **Product Use Details**

Describe how the product was used or

9 cups/day

administered

Date the product was first given to the animal

06/01/2018

Date last fed the animal product from this

purchase:

<blank>

Were there any other foods or products given to the animal during this time

<blank>

Describe how the product was stored before and after opening

<blank>

# **Contact Information**

#### **Relatedness Details**

Amount of time from use of product to

onset of the event:

Select Unit of Measure <blank>

of the adverse event?

How strongly do you believe this product is related to the adverse event?

<blank>

#### **Location Name and Address**

Store/place of purchase <blank>

Country <blank>

Street Address Line 1 <blank>

Street Address Line 2 <blank>

City/Town <blank>

State <blank>

ZIP/Postal Code <blank>

# **Product Information**

Full name of product as it appears on the

package label

4Health beef stew canned

Product Type Pet Food

UPC from label <blank>

Package Type CAN

Package Size <blank>

Select Unit of Measure <blank>

Last date of product purchase (estimate if

necessary)

<blank>

Number purchased on this date <blank>

Do you have a package/container of

<blank>

Do you have a package/container of opened product from this purchase?

unopened product from this purchase?

<black>

#### **Product Lots**

#### **Product Use Details**

Describe how the product was used or

administered

2 tablespoons 3x/day since Jan, 2017

Date the product was first given to the

animal <br/>
shank>

Date last fed the animal product from this

purchase: <blank>

Were there any other foods or products given to the animal during this time

:his time <blank>
period?

Describe how the product was stored

# **Contact Information**

#### **Relatedness Details**

Amount of time from use of product to onset of the event:

<blank>

Select Unit of Measure

<blank>

Was product use stopped after the onset of the adverse event?

<blank>

How strongly do you believe this product is related to the adverse event?

<blank>

# **Location Name and Address**

Store/place of purchase <blank>

Country <blank>

Street Address Line 1 <blank>

Street Address Line 2 <blank>

City/Town <blank>

State <blank>

ZIP/Postal Code <blank>

# **Description and Details**

Date problem started 09/12/2018

Date of recovery <blank>

DCM and CHF - had been having respiratory signs for ~1 month prior to diagnosis at Tufts Littermate is B6 (already reported by owner after being diagnosed with DCM and CHF in July 2018) Owner has another Great Dane at home (~1 year of

Describe what happened age) eating the same diet that will be screened soon Owner approved submission of

this report and talking to FDA Will send rest of medical records by email (sorry - too

many to upload)

Was a veterinarian consulted? <blank>

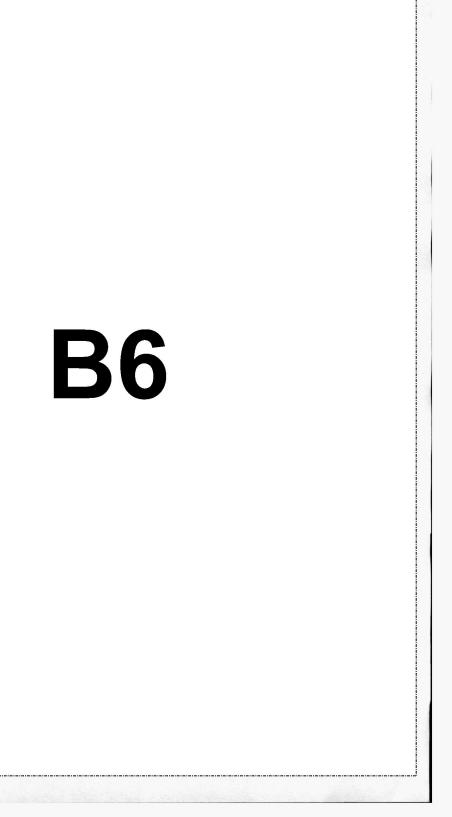
Outcome to date Stable

# **Attached Files**

FILENAME taurine.pdf

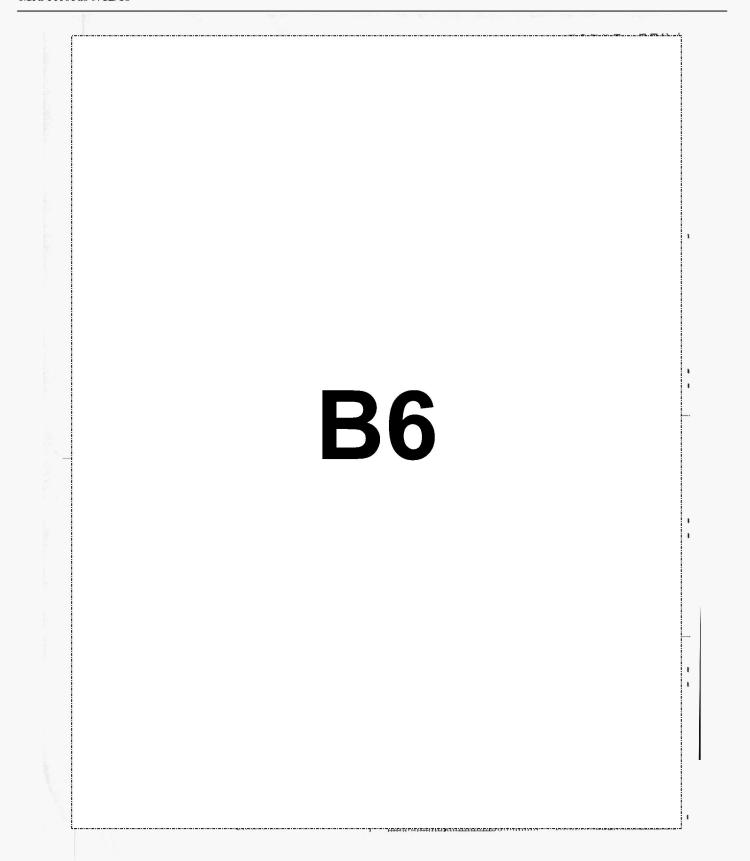
Description of Attachment Taurine results

Attachment Type Laboratory Report









# Cummings Veterinary Medical Center

**Foster Hospital for Small Animals** 

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

Client:	
Veterinarian:	R6
Patient ID:	DU
West ID.	

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

# Lab Results Report

Chemistry 21 (Cobas)	9/13/2018 11:43:20 AM	Accession ID: B6	
Test	Results	Reference Range	Units
GLUCOSE		67 - 135	mg/dL
UREA		8 - 30	mg/dL
CREATININE		0.6 - 2	mg/dL
PHOSPHORUS		2.6 - 7.2	mg/dL
CALCIUM2		9.4 - 11.3	mg/dL
T. PROTEIN		5.5 - 7.8	g/dL
ALBUMIN		2.8 - 4	g/dL
GLOBULINS		2.3 - 4.2	g/dL
A/G RATIO		0.7 - 1.6	
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





1/1

# Cummings Veterinary Medical Center

**Foster Hospital for Small Animals** 

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

Client:	
Veterinarian	B B B
Patient ID:	DU
Visit ID:	

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

# **Lab Results Report**

Chemistry 21 (Cobas)	9/14/2018 12:28:20 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





В6

2,6

20658

#### **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

Vet/Tech Cont Company Nam	· •	В	6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Address:_	B6				
	В6			· · · · · · · · · · · · · · · · · · ·	
Emai	В	6		<u> </u>	
Tel:	B6	,	Fax:	B6	
Billing Contact		B6		TAX ID:	·
Email:	В	6	_ Tel:	B6	
Patient Name:					
Owner's Name	3. *.	B6			
Sample Type: Test Items:	Plasma \( \sqrt{Taurine} \)		od Urine [ Amino Acid	Food Otl	ner:
Taurine Result	s (nmol/ml)		B6		
Plasma:	Who	le Blood:	Urin	e	Food:

#### Reference Ranges (nmol/ml)

	Plasma		Whole Blood	
	Normal Range	No Known Risk for	Normal Range	No Known Risk for
		Taurine Deficiency	A - 2" A - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Taurine Deficiency
Cat	80-120	>40	300-600	>200
Dog	60-120	>40	200-350	>150

CARDIOLOGY DIET HISTORY FORM Please answer the following questions about your pet **B6** Pet's name: Owner's name Today's date 9/5/18 How would you assess your pet's appetite? (mark the boint on the line below that best represents your pet's appetite Example Excelient Poor have you noticed a change in your pet's appetite over the last 1-2 weeks? (check all that apply) Eats about the same amount as usual DEats less than usual DEats more than usual Seems to prefer different foods than usual DOther\_ Over the last few weeks, has your pet (check one) ☑Lost weight ☐Gained weight ☐Stayed about the same weight ☐Don't know 4. Please list below ALL pet foods, people food, treats, snack, dental chews, rawhides, and any other food item that your pet currently eats. Please include the brand, specific product, and flavor so we know exactly what you pet is eating. Food (include specific product and flavor) Form Amount How often? Examples are shown in the table - please provide enough detail that we could go do the store and buy the exact same food Food (include specific product and flavor) Form Amount How often? Fed since Nutro Grain Free Chicken, Lentil. & Sweet Potato Adult dry 1 1/2 CUD 2x/day Jan 2018 85% lean namburger microwaved 3 oz 1x/week Jan 2015 Pupperoni original beef flavor treat 1/2 1x/day Aug 2015 Rawhide whole amin) 6 inch twist treat 1x/week Dec 2015 Honest Kitchen Turkey Roof or Chicken moist Nav. 2017 Bravo ramped - votate- rabbit MOIST can Costos canned - cotate Pizzle Sticks - Bravo dried Egoniaux - Fravo dried Zuch - votate (Tiga started again) Deforest Kitchen Veggie & Faut max-add mean Hound Apoked - turkey, here , Sal mon -"Any additional diet information can be listed on the back of this sneet."

If all ESSEMBLAN from E Tri Mal for E TreatS

Do you give any dietary supplements to your pet (for example: whamins, glucosamine, fatty acids, or any other Tyes The liftyes, please list which ones and give brands and amounts supplements)? Brand/Concentration Amount per day Taurine □Yes ☑No Carnitine TYPS DING Antioxidants TYes The Multivitamir TYes Tho Fish oil MYes UNO Nordic Northerala Coenzyme Q10 □Yes □Kic Otner (please list): Example: Vitamin C Nature's Bounty 500 mg tablets - 1 per day How do you administer pills to your pet? ☐ I do not give any medications Di put them directly in my pet's mouth without food ☐ i put them in my pet's dog/cat food ☐ I put them in a Pill Pocket or similar product Dr but them in foods (list foods): Chepse. liver wurst

20543

#### Amino Acid Laboratory Sample Submission Form

Amino Acid Laboratory

1089 Veterinary Medicine Drive

Davis, Ca 95616

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

Email: ucd.aminoacid.lab@ucdavis.edu

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

Veterinarian Cont	act: B	6	A THE STATE OF THE	
Clinic/Company N	ame:	B6		
Address:		B6		encompanion del la proposition de la companion
Emaily	¥			_1
Telephone:	B6	Fax	K 	<u></u>
Billing Contact:			E	
Patient Name:	B6		cles:  < 9	MATERIAL STATE OF COLUMN STATE
Breed: <u>Lock</u>	den Retriev	er Owi	ner's Name:	В6
Current Diet :				
Sample type:	Plasma Whole	Blood) Urine	Food Other _	TOO CONTINUE AND A SECOND ASSOCIATION OF THE
Test: Taurine	) Complete Ami	no Acids Other	**	and the second s
Taurine Resu	Its (lab use only)	D6		78.1 43.1 (20.1)
Plasma:	Whole Blood	t. DO Uri	ne:	Food:
Mark and company a		1001000100000100001000001		rittennerentanfrikerettinlerenssassasskilladdissessaddis
	Plasma	(nMol/ml)	Whole Blo	od (nMol/ml)
	Normal Range	No known risk for deficiency		No known risk for deficiency

>40

>40

80-120

60-120

Cat

Dog

300-600

200-350

>200

>150

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

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:** 9/7/2018 8:54:26 PM

Subject: Another Tufts! FW: Zignature Kangaroo limited ingredient grain free dry: Lisa Freeman -

EON-364572

Attachments: 2054747-report.pdf; 2054747-attachments.zip

David Rotstein, DVM, MPVM, Dipl. ACVP CVM Vet-LIRN Liaison CVM OSC/DC/CERT 7519 Standish Place B6 (BB)





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

Sent: Friday, September 07, 2018 4:44 PM

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

<HQPetFoodReportNotification@fda.hhs.gov>;

Subject: Zignature Kangaroo limited ingredient grain free dry: Lisa Freeman - EON-364572

A PFR Report has been received and PFR Event [EON-364572] has been created in the EON System.

A "PDF" report by name "2054747-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 "2054747-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

**EON Key:** EON-364572

ICSR #: 2054747

**EON Title:** PFR Event created for Zignature Kangaroo limited ingredient grain free dry; 2054747

AE Date	07/23/2016	Number Fed/Exposed	
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Recovered Completely

Breed	Mixed (Dog)	
Age	5 Years	
District Involved	PFR-New England DO	

**Product information** 

**Individual Case Safety Report Number: 2054747** 

Product Group: Pet Food

Product Name: Zignature Kangaroo limited ingredient grain free dry

**Description:** Developed DCM and CHF on Zignature Kangaroo limited ingredient grain free dry. Changed to Hill's ideal balance chicken and rice dry at time of diagnosis and has improved significantly on last echo

(6/13/18) - fractional shortening and heart size now normal and starting to wean off meds

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: Recovered Completely

Number of Animals Reacted With Product: 1

Product Name	Lot Number or ID	Best By Date
Zignature Kangaroo limited ingredient grain free dry		

#### Sender information

Lisa Freeman 200 Westboro Rd North Grafton, MA 01536 USA

#### Owner information

**B6** 

USA

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

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

**B6** 

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Report Details - EON-	364572			
ICSR:	2054747			
Type Of Submission:	Initial			
Report Version:	FPSR.FDA.PETF.V.V1			
Type Of Report:	Adverse Event (a symptom, reaction or disease associated with the product)			
Reporting Type:	Voluntary			
Report Submission Date:	2018-09-07 16:41:17 EDT			
Reported Problem:	Problem Description:	dry. Changed to Hill's ideal balance chicken and rice dry at time of diagnosis an has improved significantly on last echo (6/13/18) - fractional shortening and hea size now normal and starting to wean off meds		
	Date Problem Started:	07/23/2016		
	Concurrent Medical Problem:	No		
	Outcome to Date:	Recovered Complete	ely	
Product Information:	Product Name:	Zignature Kangaroo limited ingredient grain free dry		
	Product Type:	Pet Food		
	Lot Number:			
	Package Type:	: BAG		
	Storage Conditions:	Owner may be able to figure out exact date of starting Zignature based on online purchases		
	Product Use Information:			
	Manufacturer /Distributor Information:			
	Purchase Location Information:			
Animal Information:	Name:	B6		
	Type Of Species:	Dog		
	Type Of Breed:	Mixed (Dog)		
	Gender:	Male		
	Reproductive Status:	Neutered		
	Weight:	26.2 Kilogram		
	Age:	5 Years		
	Assessment of Prior Health:	Excellent		
	Number of Animals Reacted:	1		
	Owner Information:	Owner Information provided:	Yes	
		Contact:	Name:	
			Phone: <b>B6</b>	
			Email:	
		Address:		
			B6	
			United States	
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	Healthcare Professional Information:	Practice Name:	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		
	Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States		
	Contact:	Phone:	5088874523	
		Email:	lisa.freeman@tufts.edu	
	Permission To Contact Sender:	Yes		
	Preferred Method Of Contact:	Email		
Additional Documents:				
	Attachment:	cardio consult 7-23-16.pdf		
		Will send the rest by email - too many files to upload indivudually  Medical Records		