

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; [REDACTED] **B6**
CC: Rotstein, David; Norris, Anne; DeLancey, Siobhan; Ceric, Olgica
Sent: 4/20/2018 5:18:50 PM
Subject: RE: hold-call with Dr. Adin re: DCM cases
Attachments: 02-Vet-LIRN-NetworkProceduresVets-12.22.2015.pdf; 03-Vet-LIRN-NetworkProceduresOwners-12.22.2015.pdf

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, please file an official consumer complaint. Instructions on how to report a pet food report can be found at: <https://www.fda.gov/AnimalVeterinary/SafetyHealth/ReportaProblem/ucm182403.htm>. The complaint can be submitted through the Safety Reporting Portal: <https://www.safetyreporting.hhs.gov>. You can attach documents already created that compile your case data. We will review the data and may contact you for possible follow-up.

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 <lisa.freeman@tufts.edu>; Joshua A Stern <jstern@ucdavis.edu>; Fries, Ryan C <rfries@illinois.edu>; [REDACTED] **B6**; [REDACTED] **B6**
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: 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. [REDACTED] **B6** Freeman, [REDACTED] **B6** Fries and Stern - the call details are in the forwarded email below.

Just a brief introduction for the FDA group:

[REDACTED] **B6**

Dr. Lisa Freeman is a Professor of Clinical Nutrition at Tufts University, College of Vet Med

[REDACTED] **B6**

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>

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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



Network Procedures for Veterinary Laboratory Investigation and Response Network Case Investigations

Network Procedures for Veterinarians

1. Introduction

The purpose of this Network Procedure is to facilitate basic interactions between the Vet-LIRN Program Office (VPO) and veterinarians participating in Vet-LIRN case investigations. General procedures such as information flow, sample handling procedures, submission of reports and billing for services are discussed. The focus of most Vet-LIRN case investigations is on diagnostic samples, although occasionally animal food samples will also be submitted. Animal food testing conducted after receiving a consumer complaint is typically handled by FDA's Office of Regulatory Affairs (ORA) Laboratories or accredited laboratories.

- 1.1 In the case of Vet-LIRN investigations, the government is the client.
 - 1.1.1 The government is requesting assistance in its investigation, and is requesting tests or services to be performed by your clinic during this investigation.
 - 1.1.2 The government will pay for these services.
 - 1.1.3 The owner is helping with the government's investigation of a regulated product.
 - 1.1.4 The goal of the investigation is to determine if the product is at fault and why.
 - 1.1.5 The government's investigation may not provide a definitive diagnosis for the patient's illness.

2. Case Background – Consumer complaint

- 2.1 Vet-LIRN obtains information about the cases we investigate from 3 main sources,
 - 2.1.1 Consumer complaints (cc) - obtained by FDA Consumer Complaint Coordinators by phone
 - 2.1.2 Electronic consumer complaint submissions through FDA's Food Safety Reporting Portal, and
 - 2.1.3 Vet-LIRN partner laboratories.

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



Network Procedures for Veterinary Laboratory Investigation and Response Network Case Investigations

3. Communications

- 3.1 VPO will discuss the case with the referring veterinarian and or the owner.
- 3.2 VPO evaluates the case history and determines a need for follow up testing to determine if the food (or drug) is the cause of the illness or death.
- 3.3 VPO contacts the appropriate member laboratory(-ies) (chosen based on location and capabilities) and provides initial information
 - 3.3.1 In some cases only partial history is available
 - 3.3.2 Follow up information will be sent as it becomes available.
- 3.4 VPO proposes the tests to be conducted and prepares billing documents.
- 3.5 VPO makes arrangements with the veterinarian to obtain and ship samples.
 - 3.5.1 VPO receives test results and forwards the results to the veterinarian who will then communicate the results to the owner.

4. Case history

- 4.1 A complete medical history is essential,
 - 4.1.1 age, sex, breed, animal's ID/name,
 - 4.1.2 other animals affected,
 - 4.1.3 duration of problem, lesion distribution (diagrams or photos are welcome),
 - 4.1.4 treatment of problem (especially dose and duration of therapy) and response to treatment.
 - 4.1.5 concomitant drugs or dietary supplements administered (not used for treatment of the reaction, but administered for other reasons at the same time or within a short time of the problem occurrence).
- 4.2 Vet-LIRN Case Numbers:
 - 4.2.1 Include Vet-LIRN case number in all correspondence.
 - 4.2.2 E-mail: include the Vet-LIRN case number as the first part of the subject line. This will help archiving data for each case.
- 4.3 Electronic submission of medical records and laboratory results is preferred.
- 4.4 Histories can also be submitted by FAX to Vet-LIRN (301-210-4685).
- 4.5 Information about follow-up visits related to the investigation and additional laboratory reports should be provided as soon as possible. Phone calls are very useful for



Network Procedures for Veterinary Laboratory Investigation and Response Network Case Investigations

discussing cases in depth, but should be followed up with the medical records and lab reports.

- 4.5.1 Due to time difference around the country, email communication is often the best way to assure information is transferred in a timely manner.

5. Services Requested by VPO

5.1 Services typically tests will fall into 3 categories:

- 5.1.1 Office Examination
- 5.1.2 Clinical laboratory samples
- 5.1.3 Pathology

5.2 Office Examination:

- 5.2.1 To evaluate the current status of the patient.
- 5.2.2 To obtain samples from the patient for further analysis (blood, urine, feces).

5.3 Clinical Laboratory Samples:

- 5.3.1 VPO may ask for repeat analysis of new samples to be run either by the veterinary hospital, or by its usual testing laboratory.
- 5.3.2 Typical tests include clinical hematology, microbial cultures, urinalysis, and fecal examination.
- 5.3.3 Additional testing may be requested and the samples sent to a Vet-LIRN network laboratory.

5.4 Pathology:

- 5.4.1 Either submit the entire carcass or conduct a routine necropsy examination. Record your findings in detail and submit. Histopathology and microbiological cultures as appropriate.
 - 5.4.1.1 Describe all lesions – location, color, size, texture.
 - 5.4.1.2 Culture lesions or intestinal contents as deemed appropriate based on the history.
 - 5.4.1.3 Save tissues for histopathology- be sure to use 10:1 formalin to tissue mass.
- 5.4.2 Histopathology tissues (preserve in 10% neutral buffered formalin 10:1 ratio fixative to tissue):



Network Procedures for Veterinary Laboratory Investigation and Response Network Case Investigations

5.4.2.1 thyroid, thymus, lung, heart, liver, spleen, adrenal, kidney, pancreas, stomach, duodenum, jejunum, ileum, colon, urinary bladder, skeletal muscle, brain.

5.4.2.2 Request a duplicate set of H&E for submission to VPO for archiving.

5.5 Toxicology:

5.5.1 Freeze and hold tissues if there is any indication that a toxic substance may be involved:

5.5.1.1 brain (for organophosphates and carbamates),

5.5.1.2 eyes, liver, kidney, brain, stomach content, fat,

5.5.1.3 if available, serum, EDTA blood, urine.

5.5.2 Following a review of histopathology, VPO may select tissues to be analyzed and request that tissues be sent to a Vet-LIRN laboratory.

5.5.3 When the case is closed by VPO, samples can be disposed of. When in doubt, please ask.

5.5.3.1 The animal's remains can be disposed of following the laboratories' customary procedures.

6. Sample submissions

6.1 Normally, VPO prefers that the veterinarian, not the pet owner submit samples.

6.2 Arrangements for transport should be made with the VPO (see additional shipping instructions).

6.3 A Vet-LIRN Sample Submission Form, given by VPO to the veterinarian, should be provided to the veterinarian and should accompany all samples being sent to our Vet-LIRN laboratory, listing the recommended tests.

6.4 A Shipping Inventory Sheet, given by VPO to the veterinarian, should also be provided by VPO and should be submitted with all samples. This form will be filled out and faxed to the VPO (301-210-4685) by the receiving Vet-LIRN laboratory.

6.5 Vet-LIRN case numbers should be provided by the VPO and should be included on all samples and reports.

6.5.1 Rarely, an owner will deliver a specimen or an animal for necropsy directly to the participating laboratory. Vet-LIRN should notify the lab to expect the owner if this happens and will provide appropriate forms.



Network Procedures for Veterinary Laboratory Investigation and Response Network Case Investigations

7. Sample types that Vet-LIRN may request from the Veterinarian

- 7.1 Entire bodies (fresh or frozen)
- 7.2 Organs from necropsy (fresh, frozen or formalin fixed)
- 7.3 Clinical samples (serum, blood, urine, feces, biopsy samples, cultures)
- 7.4 Food samples (open bag products from home)

8. Reporting

- 8.1 All reports from Vet-LIRN testing labs are submitted to VPO.
- 8.2 VPO will forward reports to the veterinarian, who should discuss the results with the owner.
- 8.3 If appropriate, VPO will forward reports to the owner.

9. Communications with Owners

9.1 General:

- 9.1.1 VPO usually will have contacted the owner to request permission and assistance in the investigation.
- 9.1.2 Vet-LIRN's investigation is focused on determining if a regulated product is the cause of the animal's illness. The testing requested by Vet-LIRN may not provide a definitive diagnosis
- 9.1.3 VPO will provide testing results to the veterinarian for communication to the owner. This ensures that:
 - 9.1.3.1 Owners can be counseled on the interpretation of the test results,
 - 9.1.3.2 Appropriate medical follow-up care based on test results can be recommended by the owner's veterinarian.



Network Procedures for Veterinary Laboratory Investigation and Response Network Case Investigations

10. Billing

- 10.1 Vet-LIRN VPO can only pay for services which were requested and approved by VPO. Vet-LIRN cannot pay for treatment, or for diagnostic testing outside of the scope of the investigation.
- 10.2 Procurement and Billing Process: The following process needs to be followed in order to adhere to government regulations.
 - 10.2.1 The veterinarian must provide estimates so a Purchase Request can be prepared. Estimates should include items such as office visit(s), in-house diagnostic test costs, biopsy or pathology costs and additional charges such as potential shipping charges.
 - 10.2.2 A billing contact must be provided: include name, address, telephone + fax numbers, and email.
 - 10.2.3 Approved Purchase Request is required prior to beginning service.
 - 10.2.4 Additional services may only be initiated after authorized by Vet-LIRN, but must first be approved by VPO with an additional Purchase Request.
 - 10.2.5 Hospitals must provide an invoice to Vet-LIRN upon the completion of work before they can be paid. VPO is tax exempt. Taxes should be removed from all charges. The invoice must include the Vet-LIRN case number.



Network Procedures for Veterinary Laboratory Investigation and Response Network Case Investigations

Network Procedures for Owners

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

The following items are explained below:

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

1. General Introduction:

1.1. What is the goal of the case investigation?

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

1.2. What is the focus of a case investigation?

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

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

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

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

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



Network Procedures for Veterinary Laboratory Investigation and Response Network Case Investigations

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

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

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

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

2. Billing:

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

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

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

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

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

No, we cannot pay for treatment or cremation.



Network Procedures for Veterinary Laboratory Investigation and Response Network Case Investigations

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

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

3. Step by Step Process:

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

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

Vet-LIRN requests that:

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

4. Types of Services and Tests:

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

A veterinary examination may include:

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

4.2. Will your animal be tested more than once?



Network Procedures for Veterinary Laboratory Investigation and Response Network Case Investigations

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

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

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

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

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

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

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

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

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

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

From: Palmer, Lee Anne </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CF7C8BD53B6C45A39318A596ACEA7C53-LPALMER>
To: Rotstein, David; Jones, Jennifer L
Sent: 4/30/2018 8:15:16 PM
Subject: RE: DCM cases - proposed diet history

Thanks – on my list for tomorrow morning to have a read – the day has flown by. The good news – they reinstalled SAS and JMP today, so baby steps...

From: Rotstein, David
Sent: Friday, April 27, 2018 9:00 PM
To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Subject: Fwd: DCM cases - proposed diet history

Lee Anne,

Thought you would be interested and could provide any comments/suggestions

From: Freeman, Lisa <Lisa.Freeman@tufts.edu>
Date: April 27, 2018 at 7:27:27 PM EDT
To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>, Darcy Adin <dbadin@ncsu.edu>, Joshua A Stern <jstern@ucdavis.edu>, Fries, Ryan C <rfries@illinois.edu>, [REDACTED] B6

[REDACTED] 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: DCM cases - proposed diet history

Hi everyone

I'm attaching a proposed diet history form. I met with our cardiology group yesterday [REDACTED] B5

[REDACTED] B5

[REDACTED] B5

Please let me know if you have any comments – [REDACTED] B5

[REDACTED] B5

[REDACTED] B5

Our group also discussed a [REDACTED] B5

[REDACTED] B5

[REDACTED] B5

Thanks
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

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

Sent: Friday, April 20, 2018 3:50 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>;

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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 Consumer Complaints, you can just email me a spreadsheet with the data.

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>;

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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, please file an official consumer complaint. Instructions on how to report a pet food report can be found at: <https://www.fda.gov/AnimalVeterinary/SafetyHealth/ReportaProblem/ucm182403.htm>. The complaint can be submitted through the Safety Reporting Portal: <https://www.safetyreporting.hhs.gov>. You can attach documents already created that compile your case data. We will review the data and may contact you for possible follow-up.

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

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Veterinary Medical Officer
Tel: 240-402-5421



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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. B6, Freeman, B6 Fries and Stern - the call details are in the forwarded email below.

Just a brief introduction for the FDA group:

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Dr. Lisa Freeman is a Professor of Clinical Nutrition at Tufts University, College of Vet Med

B6

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

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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

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To: Rotstein, David; Jones, Jennifer L
Sent: 5/1/2018 1:38:39 PM
Subject: RE: DCM cases - proposed diet history

Thanks – this is a great dietary history. My only comments:

B5

Thanks for the opportunity to comment!

Lee Anne

From: Rotstein, David
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I'm attaching a proposed diet history form. I met with our cardiology group yesterday **B5**

B5

Please let me know if you have any comments –

B5

B5

Our group also discussed

B5

B5

Thanks
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 <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

Importance: High

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

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, please file an official consumer complaint. Instructions on how to report a pet food report can be found at: <https://www.fda.gov/AnimalVeterinary/SafetyHealth/ReportaProblem/ucm182403.htm>. The complaint can be submitted through the Safety Reporting Portal: <https://www.safetyreporting.hhs.gov>. You can attach documents already created that compile your case data. We will review the data and may contact you for possible follow-up.

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 <lisa.freeman@tufts.edu>; Joshua A Stern <jsstern@ucdavis.edu>; Fries, Ryan C <rfries@illinois.edu> [B6]
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: 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. [B6] Freeman, [B6] 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

[B6]

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>

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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: Palmer, Lee Anne </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CF7C8BD53B6C45A39318A596ACEA7C53-LPALMER>
To: Jones, Jennifer L; Rotstein, David; Carey, Lauren
Sent: 5/7/2018 6:07:39 PM
Subject: Ingredient listing by Atypical vs Typical Breed for Canine DCM.docx
Attachments: Ingredient listing by Atypical vs Typical Breed for Canine DCM.docx

Ingredient listing by Atypical vs Typical Breed for Canine DCM

Ingredient	Atypical		Typical vs Atypical		Typical		All	
	N	% of Total	N	% of Total	N	% of Total	N	% of Total
Folic Acid	35	2.45%	4	0.28%	39	2.73%		
Biotin	31	2.17%	4	0.28%	35	2.45%		
Peas	31	2.17%	4	0.28%	35	2.45%		
Pyridoxine hydrochloride	31	2.17%	4	0.28%	35	2.45%		
Thiamine mononitrate	31	2.17%	4	0.28%	35	2.45%		
Vitamin E Supplement	31	2.17%	4	0.28%	35	2.45%		
Niacin supplement	31	2.17%	3	0.21%	34	2.38%		
Vitamin B12 Supplement	29	2.03%	4	0.28%	33	2.31%		
Vitamin D3 Supplement	29	2.03%	4	0.28%	33	2.31%		
Natural Flavor	27	1.89%	4	0.28%	31	2.17%		
Copper proteinate	26	1.82%	3	0.21%	29	2.03%		
Manganese proteinate	26	1.82%	3	0.21%	29	2.03%		
Flaxseed	26	1.82%	2	0.14%	28	1.96%		
Calcium iodate	23	1.61%	4	0.28%	27	1.89%		
Iron Proteinate	24	1.68%	3	0.21%	27	1.89%		
Riboflavin Supplement	22	1.54%	4	0.28%	26	1.82%		
Salt	22	1.54%	4	0.28%	26	1.82%		
Calcium carbonate	20	1.40%	4	0.28%	24	1.68%		
Choline chloride	20	1.40%	4	0.28%	24	1.68%		
Zinc Proteinate	21	1.47%	3	0.21%	24	1.68%		
Vitamin A Supplement	20	1.40%	3	0.21%	23	1.61%		
Potassium Chloride	17	1.19%	4	0.28%	21	1.47%		
Sodium Selenite	18	1.26%	3	0.21%	21	1.47%		
Sunflower oil	20	1.40%	1	0.07%	21	1.47%		
Calcium pantothenate	17	1.19%	1	0.07%	18	1.26%		
Rosemary extract	16	1.12%	2	0.14%	18	1.26%		
Chickpeas	16	1.12%	1	0.07%	17	1.19%		
Green lentils	16	1.12%	1	0.07%	17	1.19%		
Pea Protein	13	0.91%	4	0.28%	17	1.19%		
Red lentils	16	1.12%	1	0.07%	17	1.19%		
d-Calcium pantothenate	14	0.98%	3	0.21%	17	1.19%		
Kangaroo	14	0.98%	1	0.07%	15	1.05%		
Pea Fiber	13	0.91%	1	0.07%	14	0.98%		
Probiotics	13	0.91%	1	0.07%	14	0.98%		
Dicalcium Phosphate	12	0.84%	1	0.07%	13	0.91%		
Yucca schidigera extract	10	0.70%	3	0.21%	13	0.91%		
Alfalfa Meal	10	0.70%	2	0.14%	12	0.84%		
Mixed Tocopherols	10	0.70%	2	0.14%	12	0.84%		
Pea Flour	11	0.77%	1	0.07%	12	0.84%		
Beta Carotene	11	0.77%	0	0.00%	11	0.77%		
Betaine Hydrochloride	11	0.77%	0	0.00%	11	0.77%		
Copper sulfate	8	0.56%	3	0.21%	11	0.77%		
DL-methionine	11	0.77%	0	0.00%	11	0.77%		
Ferrous sulfate	8	0.56%	3	0.21%	11	0.77%		
Lactic acid	8	0.56%	3	0.21%	11	0.77%		
Zinc Sulfate	10	0.70%	1	0.07%	11	0.77%		
Sweet potatoes	8	0.56%	2	0.14%	10	0.70%		
Taurine	7	0.49%	3	0.21%	10	0.70%		

Ingredient	Typical vs Atypical					
	Atypical		Typical		All	
	N	% of Total	N	% of Total	N	% of Total
Cobalt proteinate	8	0.56%	1	0.07%	9	0.63%
Riboflavin supplement	9	0.63%	0	0.00%	9	0.63%
salt	9	0.63%	0	0.00%	9	0.63%
Apples	6	0.42%	2	0.14%	8	0.56%
Blueberries	7	0.49%	1	0.07%	8	0.56%
Carrots	8	0.56%	0	0.00%	8	0.56%
Manganese sulfate	7	0.49%	1	0.07%	8	0.56%
Potato	7	0.49%	1	0.07%	8	0.56%
Potassium Iodide	7	0.49%	0	0.00%	7	0.49%
Selenium yeast	6	0.42%	1	0.07%	7	0.49%
Vitamin A Acetate	7	0.49%	0	0.00%	7	0.49%
Cranberries	5	0.35%	1	0.07%	6	0.42%
Dried Tomato Pomace	4	0.28%	2	0.14%	6	0.42%
Kangaroo meal	5	0.35%	1	0.07%	6	0.42%
Manganese Oxide	4	0.28%	2	0.14%	6	0.42%
Salmon Oil	6	0.42%	0	0.00%	6	0.42%
Salmon meal	3	0.21%	3	0.21%	6	0.42%
Spinach	6	0.42%	0	0.00%	6	0.42%
Acetate	4	0.28%	1	0.07%	5	0.35%
Alfalfa	5	0.35%	0	0.00%	5	0.35%
Ascorbic acid	5	0.35%	0	0.00%	5	0.35%
Canola oil	4	0.28%	1	0.07%	5	0.35%
Lamb meal	5	0.35%	0	0.00%	5	0.35%
Lentils	5	0.35%	0	0.00%	5	0.35%
Parsley	4	0.28%	1	0.07%	5	0.35%
Vitamin A	4	0.28%	1	0.07%	5	0.35%
Zinc proteinate	5	0.35%	0	0.00%	5	0.35%
Beta-Carotene	2	0.14%	2	0.14%	4	0.28%
Cheese	4	0.28%	0	0.00%	4	0.28%
Dried Whole Egg	4	0.28%	0	0.00%	4	0.28%
Duck	4	0.28%	0	0.00%	4	0.28%
Duck meal	4	0.28%	0	0.00%	4	0.28%
Minerals	4	0.28%	0	0.00%	4	0.28%
Pumpkin	1	0.07%	3	0.21%	4	0.28%
Salmon	2	0.14%	2	0.14%	4	0.28%
Sorbic Acid	4	0.28%	0	0.00%	4	0.28%
Vitamins	4	0.28%	0	0.00%	4	0.28%
Celery	3	0.21%	0	0.00%	3	0.21%
Chicken fat	3	0.21%	0	0.00%	3	0.21%
Chicken meal	3	0.21%	0	0.00%	3	0.21%
Cobalt Amino Acid Complex	3	0.21%	0	0.00%	3	0.21%
Copper Amino Acid Complex	3	0.21%	0	0.00%	3	0.21%
DL Methionine	2	0.14%	1	0.07%	3	0.21%
Inositol	1	0.07%	2	0.14%	3	0.21%
Iron Amino Acid Complex	3	0.21%	0	0.00%	3	0.21%
L-Ascorbyl-2-Polyphosphate	1	0.07%	2	0.14%	3	0.21%
Lamb	3	0.21%	0	0.00%	3	0.21%
Lettuce	3	0.21%	0	0.00%	3	0.21%
Manganese Amino Acid Complex	3	0.21%	0	0.00%	3	0.21%
Menadione sodium bisulfite complex	1	0.07%	2	0.14%	3	0.21%
Poultry fat	1	0.07%	2	0.14%	3	0.21%

Ingredient	Typical vs Atypical					
	Atypical		Typical		All	
	N	% of Total	N	% of Total	N	% of Total
Turkey meal	3	0.21%	0	0.00%	3	0.21%
Zinc Amino Acid Complex	3	0.21%	0	0.00%	3	0.21%
peas	3	0.21%	0	0.00%	3	0.21%
Beet Pulp	2	0.14%	0	0.00%	2	0.14%
Broccoli	2	0.14%	0	0.00%	2	0.14%
Brown Rice	1	0.07%	1	0.07%	2	0.14%
Caramel color	1	0.07%	1	0.07%	2	0.14%
Chicken Fat	2	0.14%	0	0.00%	2	0.14%
Chickory Root Extract	2	0.14%	0	0.00%	2	0.14%
Chicory root	1	0.07%	1	0.07%	2	0.14%
Citric acid	0	0.00%	2	0.14%	2	0.14%
Cobalt carbonate	2	0.14%	0	0.00%	2	0.14%
Copper Amino Acid Chelate	1	0.07%	1	0.07%	2	0.14%
Deboned Salmon	1	0.07%	1	0.07%	2	0.14%
Deboned chicken	2	0.14%	0	0.00%	2	0.14%
Dried Kelp	1	0.07%	1	0.07%	2	0.14%
Flaxseed oil	2	0.14%	0	0.00%	2	0.14%
Garbonzo bean	0	0.00%	2	0.14%	2	0.14%
Iron Amino Acid Chelate	1	0.07%	1	0.07%	2	0.14%
L-carnitine	1	0.07%	1	0.07%	2	0.14%
L-lysine	1	0.07%	1	0.07%	2	0.14%
Manganese Amino Acid Chelate	1	0.07%	1	0.07%	2	0.14%
Pomegranate	2	0.14%	0	0.00%	2	0.14%
Pork Fat	2	0.14%	0	0.00%	2	0.14%
Pork Liver	2	0.14%	0	0.00%	2	0.14%
Pork Meat Meal	2	0.14%	0	0.00%	2	0.14%
Rabbit	2	0.14%	0	0.00%	2	0.14%
Rabbit Meal	2	0.14%	0	0.00%	2	0.14%
Tomato pomace	2	0.14%	0	0.00%	2	0.14%
Tomatoes	2	0.14%	0	0.00%	2	0.14%
Venison	2	0.14%	0	0.00%	2	0.14%
Vitamin B12 Lactic Supplement	2	0.14%	0	0.00%	2	0.14%
Watercress	2	0.14%	0	0.00%	2	0.14%
Zinc Amino Acid Chelate	1	0.07%	1	0.07%	2	0.14%
Zinc Oxide	0	0.00%	2	0.14%	2	0.14%
Alfalfa sprouts	1	0.07%	0	0.00%	1	0.07%
Animal digest	1	0.07%	0	0.00%	1	0.07%
Animal fat	1	0.07%	0	0.00%	1	0.07%
Barley	1	0.07%	0	0.00%	1	0.07%
Barley grass	0	0.00%	1	0.07%	1	0.07%
Betaine	1	0.07%	0	0.00%	1	0.07%
Bison	1	0.07%	0	0.00%	1	0.07%
Brewers Rice	1	0.07%	0	0.00%	1	0.07%
Brewers Yeast	1	0.07%	0	0.00%	1	0.07%
Calcium Iodate	1	0.07%	0	0.00%	1	0.07%
Calcium phosphate	1	0.07%	0	0.00%	1	0.07%
Cauliflower	1	0.07%	0	0.00%	1	0.07%
Chicken	1	0.07%	0	0.00%	1	0.07%
Chicken cartilage	1	0.07%	0	0.00%	1	0.07%
Chicory Root	1	0.07%	0	0.00%	1	0.07%
Chicory root extract	1	0.07%	0	0.00%	1	0.07%

Ingredient	Typical vs Atypical					
	Atypical		Typical		All	
	N	% of Total	N	% of Total	N	% of Total
Cinnamon	1	0.07%	0	0.00%	1	0.07%
Cobalt Amino Acid Chelate	1	0.07%	0	0.00%	1	0.07%
Corn gluten meal	1	0.07%	0	0.00%	1	0.07%
Deboned Beef	1	0.07%	0	0.00%	1	0.07%
Deboned Turkey	1	0.07%	0	0.00%	1	0.07%
Deboned buffalo	1	0.07%	0	0.00%	1	0.07%
Deboned duck	1	0.07%	0	0.00%	1	0.07%
Deflourinated Tricalcium Phosphate	1	0.07%	0	0.00%	1	0.07%
Dried Seaweed Meal	1	0.07%	0	0.00%	1	0.07%
Dried Yeast	0	0.00%	1	0.07%	1	0.07%
Dried kelp	1	0.07%	0	0.00%	1	0.07%
Duck fat	1	0.07%	0	0.00%	1	0.07%
Ergocalciferol	1	0.07%	0	0.00%	1	0.07%
Faba Beans	1	0.07%	0	0.00%	1	0.07%
Fennel	1	0.07%	0	0.00%	1	0.07%
Fish oil	0	0.00%	1	0.07%	1	0.07%
Garlic oil	1	0.07%	0	0.00%	1	0.07%
Glucosamine hydrochloride	1	0.07%	0	0.00%	1	0.07%
Glycerin	1	0.07%	0	0.00%	1	0.07%
Green tea extract	1	0.07%	0	0.00%	1	0.07%
Guar gum	1	0.07%	0	0.00%	1	0.07%
Inulin	1	0.07%	0	0.00%	1	0.07%
L-lysine monohydrochloride	1	0.07%	0	0.00%	1	0.07%
Manganous oxide	1	0.07%	0	0.00%	1	0.07%
Natural Chicken flavor	1	0.07%	0	0.00%	1	0.07%
Natural Pork flavor	1	0.07%	0	0.00%	1	0.07%
Nicotinic acid	0	0.00%	1	0.07%	1	0.07%
Oatmeal	0	0.00%	1	0.07%	1	0.07%
Oats	1	0.07%	0	0.00%	1	0.07%
Olive oil	1	0.07%	0	0.00%	1	0.07%
Papayas	1	0.07%	0	0.00%	1	0.07%
Pea flour	1	0.07%	0	0.00%	1	0.07%
Peppermint	1	0.07%	0	0.00%	1	0.07%
Pheasant	1	0.07%	0	0.00%	1	0.07%
Pork fat	1	0.07%	0	0.00%	1	0.07%
Pork liver	1	0.07%	0	0.00%	1	0.07%
Pork meal	1	0.07%	0	0.00%	1	0.07%
Potato protein	1	0.07%	0	0.00%	1	0.07%
Potato starch	0	0.00%	1	0.07%	1	0.07%
Poultry by-product meal	1	0.07%	0	0.00%	1	0.07%
Quail	1	0.07%	0	0.00%	1	0.07%
Quinoa	1	0.07%	0	0.00%	1	0.07%
Raspberries	1	0.07%	0	0.00%	1	0.07%
Rosemary oil	0	0.00%	1	0.07%	1	0.07%
Salmon Meal	1	0.07%	0	0.00%	1	0.07%
Salmon oil	1	0.07%	0	0.00%	1	0.07%
Soybean meal	1	0.07%	0	0.00%	1	0.07%
Spearmint extract	1	0.07%	0	0.00%	1	0.07%
Sulfur	1	0.07%	0	0.00%	1	0.07%
Tapioca	1	0.07%	0	0.00%	1	0.07%
Tomato powder	1	0.07%	0	0.00%	1	0.07%

Ingredient	Typical vs Atypical					
	Atypical		Typical		All	
	N	% of Total	N	% of Total	N	% of Total
Turkey	1	0.07%	0	0.00%	1	0.07%
Turmeric	0	0.00%	1	0.07%	1	0.07%
Vitamin D Supplement	1	0.07%	0	0.00%	1	0.07%
Water for Processing	1	0.07%	0	0.00%	1	0.07%
Whole Grain Corn	1	0.07%	0	0.00%	1	0.07%
Whole Grain Wheat	1	0.07%	0	0.00%	1	0.07%
Wild boar	1	0.07%	0	0.00%	1	0.07%
Yellow squash	1	0.07%	0	0.00%	1	0.07%
Zinc oxide	1	0.07%	0	0.00%	1	0.07%
Zucchini	1	0.07%	0	0.00%	1	0.07%
alfalfa	1	0.07%	0	0.00%	1	0.07%
potatoes	1	0.07%	0	0.00%	1	0.07%
unknown	1	0.07%	0	0.00%	1	0.07%
L-Ascorbyl-2-Polyphosphate	0	0.00%	1	0.07%	1	0.07%
All	1243	86.98%	186	13.02%	1429	100.00%

1 row has been excluded.

Document properties

Author: Palmer, Lee Anne
Template: Normal.dotm
Page count: 2
Paragraph count: 1525
Line count: 1529
Word count: 1739
Character count (spaces excluded): 6739
Character count (spaces included): 6956

From: Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo>
To: Rotstein, David; Palmer, Lee Anne; Carey, Lauren
Sent: 5/8/2018 11:09:29 AM
Subject: RE: Ingredient listing by Atypical vs Typical Breed for Canine DCM.docx

Thank you, Lee Anne! This is great. Here's the list of product I sent for comparison Cystine, Taurine, and Methionine Testing. Let me know if you want the full ingredients to do Odds Ratios, etc. As I mentioned yesterday at OSC council, I listed in the far right column the ingredients in common between the non-GF and GF diets if the ingredient was more frequent than 14 in the frequency chart you sent. A lot of the nonGF foods also contained peas (which was surprising), but they were much lower on the ingredient list...

<u>Case ID</u>	<u>Product Name</u>	<u>Type</u>	<u>Grains</u>
800.216-sub 2	B4	Grains	brown rice, corn, barley
800.215-sub 5		Grains	rice, rye flour, brown rice barley
800.210-sub 1		Grains	corn gluten meal, rice, b
800.194-sub 1		Grains	brewers rice, corn gluter wheat flour
800.240-sub 1		Grains	corn, sorghum
800.240-sub 2		Grains	corn, sorghum
800.240-sub 3		Grains	corn, sorghum, brewers
800.240-sub 4		Grains	corn, sorghum,
800.250-sub 1		Grain Free-No PFRs	Grain FREE

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



From: Rotstein, David
Sent: Monday, May 07, 2018 2:42 PM
To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>
Subject: RE: Ingredient listing by Atypical vs Typical Breed for Canine DCM.docx

Lee Anne,

It was all very helpful!

David Rotstein, DVM, MPVM, Dipl. ACVP
 CVM Vet-LIRN Liaison
 CVM OSC/DC/CERT

7519 Standish Place

B6

(BB)



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From: Palmer, Lee Anne
Sent: Monday, May 07, 2018 2:34 PM
To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>
Subject: RE: Ingredient listing by Atypical vs Typical Breed for Canine DCM.docx

And I didn't really answer the question –

B5

B5

Sorry about that, was answering the question you didn't ask!

From: Palmer, Lee Anne
Sent: Monday, May 7, 2018 2:32 PM
To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>
Subject: RE: Ingredient listing by Atypical vs Typical Breed for Canine DCM.docx

So, it is a good question.

B5

B5

From: Rotstein, David
Sent: Monday, May 7, 2018 2:19 PM
To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>
Subject: RE: Ingredient listing by Atypical vs Typical Breed for Canine DCM.docx

Lee Anne,

B5

David Rotstein, DVM, MPVM, Dipl. ACVP
CVM Vet-LIRN Liaison
CVM OSC/DC/CERT

7519 Standish Place

B6 (BB)



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From: Palmer, Lee Anne
Sent: Monday, May 07, 2018 2:16 PM
To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>
Subject: RE: Ingredient listing by Atypical vs Typical Breed for Canine DCM.docx

B5

From: Rotstein, David
Sent: Monday, May 7, 2018 2:10 PM
To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>
Subject: RE: Ingredient listing by Atypical vs Typical Breed for Canine DCM.docx

Lee Anne,

Thank you.

I think **B5** Martine emailed me for an update.

Dave

David Rotstein, DVM, MPVM, Dipl. ACVP
CVM Vet-LIRN Liaison
CVM OSC/DC/CERT
7519 Standish Place
B6 (BB)



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From: Palmer, Lee Anne

Sent: Monday, May 07, 2018 2:08 PM

To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>

Subject: Ingredient listing by Atypical vs Typical Breed for Canine DCM.docx

From: Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo>
To: Rotstein, David; Palmer, Lee Anne; Hartogensis, Martine
CC: Burkholder, William; Carey, Lauren; Norris, Anne; DeLancey, Siobhan; Lovell, Randall A
Sent: 5/14/2018 11:09:04 AM
Subject: RE: DCM and meetign with Cardiac Care for Pets

I'll be interested to see

B5

B5

Based on those results, Lee Anne's analysis, and thoughts from management, Vet-LIRN could:

B5

<u>Case ID</u>	<u>Product Name</u>	<u>Type</u>	<u>Grains</u>
800.216-sub 2	B4	-	
800.215-sub 5		Grains	brown rice, corn, barley
800.210-sub 1		Grains	rice, rye flour, brown rice barley
800.194-sub 1		Grains	corn gluten meal, rice, bl
800.240-sub 1		Grains	brewers rice, corn gluter wheat flour
800.240-sub 2		Grains	corn, sorghum
800.240-sub 3		Grains	corn, sorghum
800.240-sub 4		Grains	corn, sorghum, brewers
800.250-sub 1		Grains	corn, sorghum,
			Grain Free-No PFRs

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



From: Rotstein, David
Sent: Friday, May 11, 2018 6:06 PM
To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine
 <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

Lee Anne and Jen,

B6

which is the day CVCA is available. I made you both alternate hosts.

David Rotstein, DVM, MPVM, Dipl. ACVP
CVM Vet-LIRN Liaison
CVM OSC/DC/CERT
7519 Standish Place

B6



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From: Palmer, Lee Anne

Sent: Friday, May 11, 2018 4:30 PM

To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

B5

From: Rotstein, David

Sent: Friday, May 11, 2018 4:14 PM

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

Lee Anne,

This is fantastic.

B5

B5

From: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Date: May 11, 2018 at 4:06:05 PM EDT

To: Rotstein, David <David.Rotstein@fda.hhs.gov>, Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

Hi there -

B5

B5

B5

I'll final this up next week, have to get to other things yet today. Have a great weekend! J Lee Anne

B5

From: Rotstein, David
Sent: Wednesday, May 9, 2018 4:13 PM
To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>
Subject: RE: DCM and meetign with Cardiac Care for Pets

Sounds very intriguing!!!

From: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>
Date: May 9, 2018 at 4:09:18 PM EDT
To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>
Subject: RE: DCM and meetign with Cardiac Care for Pets

B5

B5 I want to confirm it, then will send it along – could be Friday before I get this in shape to send...not to leave you hanging, but wanted to be more sure. Definitely, not done today as I'd thought. Thanks!

From: Hartogensis, Martine
Sent: Wednesday, May 9, 2018 2:17 PM
To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>
Subject: RE: DCM and meetign with Cardiac Care for Pets

Awesome, thank you Dave!

Martine

From: Rotstein, David
Sent: Wednesday, May 09, 2018 2:06 PM
To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>
Subject: RE: DCM and meetign with Cardiac Care for Pets

Good Afternoon,

I spoke with **B6** Cardiac Care for Pets. He is going to look into times/dates with the cardiologists there and we can set the meeting up from that point.

Just some basic information:

B5

As a side note, there is a facebook page dedicated to this issue:

<https://www.facebook.com/groups/1952593284998859/about/>

David Rotstein, DVM, MPVM, Dipl. ACVP
CVM Vet-LIRN Liaison
CVM OSC/DC/CERT
7519 Standish Place

B6



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From: Hartogensis, Martine
Sent: Tuesday, May 08, 2018 10:58 AM
To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>
Subject: RE: DCM

Thank you Jen and Dave! Very interesting and sounds like you all are on it!

B6

B6

B6

Keep us posted!

Thanks again!

Martine

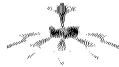
Hi Martine,

B5

I'm happy to share more info as needed.

Jen

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



From: Rotstein, David
Sent: Tuesday, May 08, 2018 9:45 AM
To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Subject: RE: DCM

Martine,

B5

Looping in Jen.

Thanks for the update!

dave

David Rotstein, DVM, MPVM, Dipl. ACVP

CVM Vet-LIRN Liaison
CVM OSC/DC/CERT
7519 Standish Place

B6



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From: Hartogensis, Martine
Sent: Tuesday, May 08, 2018 9:00 AM
To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>
Subject: RE: DCM

B5

Martine

From: Rotstein, David
Sent: Monday, May 07, 2018 1:13 PM
To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>
Subject: Re: DCM

Martine

Lee Anne will likely [redacted] **B5**

Vet-LIRN is looking into [redacted] **B5**

There's a way to go on this moving forward.

Dave

From: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>

Date: May 7, 2018 at 1:03:13 PM EDT
To: Rotstein, David <David.Rotstein@fda.hhs.gov>
Subject: DCM

Hi Dave!

Do you have any more details on the DCM and grain free diet issue?

Martine

From: Hartogensis, Martine </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=02DF91D554D34B948FC58433D0E42073-MHARTOGE>
To: Rotstein, David; Burkholder, William; Palmer, Lee Anne; Jones, Jennifer L; DeLancey, Siobhan
CC: Carey, Lauren; Norris, Anne; Lovell, Randall A; Reimschuessel, Renate; Ceric, Olgica; Nemser, Sarah; Conway, Charlotte; Edwards, David; Atkinson, Krisztina Z; Hodges, April
Sent: 5/21/2018 11:50:08 AM
Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Excellent, thank you!

Martine

From: Rotstein, David
Sent: Monday, May 21, 2018 7:49 AM
To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Burkholder, William <William.Burkholder@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>
Cc: Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Conway, Charlotte <Charlotte.Conway@fda.hhs.gov>; Edwards, David <David.Edwards@fda.hhs.gov>; Atkinson, Krisztina Z <Krisztina.Atkinson@fda.hhs.gov>; Hodges, April <April.Hodges@fda.hhs.gov>
Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B5

David Rotstein, DVM, MPVM, Dipl. ACVP
CVM Vet-LIRN Liaison
CVM OSC/DC/CERT
7519 Standish Place

B6 **BB)**



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From: Hartogensis, Martine
Sent: Monday, May 21, 2018 7:47 AM
To: Burkholder, William <William.Burkholder@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>
Cc: Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Conway, Charlotte

<Charlotte.Conway@fda.hhs.gov>; Edwards, David <David.Edwards@fda.hhs.gov>; Atkinson, Krisztina Z <Krisztina.Atkinson@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Thanks Bill and your concerns are noted!

B5

Thank you all for your help and dedication to this fascinating issue!

Martine

From: Burkholder, William

Sent: Friday, May 18, 2018 5:04 PM

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Conway, Charlotte <Charlotte.Conway@fda.hhs.gov>; Edwards, David <David.Edwards@fda.hhs.gov>; Atkinson, Krisztina Z <Krisztina.Atkinson@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B5

B5

At this point I think:

B5

B5

B5

Bill

What Socrates is really supposed to have said: *"The only true wisdom is in knowing that you know nothing."

From: Palmer, Lee Anne

Sent: Friday, May 18, 2018 2:09 PM

To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B5

Lee Anne

From: Jones, Jennifer L

Sent: Friday, May 18, 2018 1:54 PM

To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B5

Any other ideas or suggestions?

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



From: Hartogenesis, Martine
Sent: Friday, May 18, 2018 11:58 AM
To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>
Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Thank you Jen! Sounds good and looking forward to the meeting.

Martine

From: Jones, Jennifer L
Sent: Friday, May 18, 2018 6:42 AM
To: Hartogenesis, Martine <Martine.Hartogenesis@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>
Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B5

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



From: Hartogenesis, Martine
Sent: Thursday, May 17, 2018 7:52 PM
To: DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>
Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Yes, excellent work! One question though...do we see any issues

B5

B5

Thanks in advance!

Martine

From: DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Date: May 17, 2018 at 2:27:35 PM EDT

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>, Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>, Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>, Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>, Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B4, B5

From: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Date: May 17, 2018 at 2:14:48 PM EDT

To: DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>, Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>, Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>, Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>, Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Hah! Perfect timing! We're all heading down the same path...

From: DeLancey, Siobhan

Sent: Thursday, May 17, 2018 2:13 PM

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

As luck would have it, I'm at CE today listening to **B6** talk about nutrition and cardiomyopathies. See attached slide.

From: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Date: May 17, 2018 at 2:06:04 PM EDT

To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>

Norris, Anne <Anne.Norris@fda.hhs.gov>, DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>, Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>, Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>, Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Hi there – is the slide set for tomorrow’s meeting? Great work!

B5

B5

B5

B5

From: Hartogenesis, Martine

Sent: Thursday, May 17, 2018 11:59 AM

To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>; Palmer,

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

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Excellent work Jen!!

Just a few questions. On slide 6 (or the spreadsheet) DCM?

B5

B5

Martine

From: Jones, Jennifer L

Sent: Thursday, May 17, 2018 11:29 AM

To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

We

B5

B5

Please see the PPT for the rationale/summary

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



From: Rotstein, David

Sent: Monday, May 14, 2018 10:22 AM

To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

B5

From: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>

Date: May 14, 2018 at 9:09:17 AM EDT

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

B5

Martine

From: Palmer, Lee Anne

Sent: Friday, May 11, 2018 4:30 PM

To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

From what I've read, it can be a

B5

B5

From: Rotstein, David

Sent: Friday, May 11, 2018 4:14 PM

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

Lee Anne,

This is fantastic.

B5

B5

B5

B5

From: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Date: May 11, 2018 at 4:06:05 PM EDT

To: Rotstein, David <David.Rotstein@fda.hhs.gov>, Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

Hi there -

B5

B5

B5

I'll final this up next week, have to get to other things yet today. Have a great weekend! J Lee Anne

B5

From: Rotstein, David

Sent: Wednesday, May 9, 2018 4:13 PM

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

Sounds very intriguing!!!

From: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Date: May 9, 2018 at 4:09:18 PM EDT

To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

B5

B5 I want to confirm it, then will send it along – could be Friday before I get this in shape to send... not to leave you hanging, but wanted to be more sure. Definitely, not done today as I'd thought. Thanks!

From: Hartogensis, Martine

Sent: Wednesday, May 9, 2018 2:17 PM

To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

Awesome, thank you Dave!

Martine

From: Rotstein, David

Sent: Wednesday, May 09, 2018 2:06 PM

To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

Good Afternoon,

I spoke with **B6** Cardiac Care for Pets. He is going to look into times/dates with the cardiologists there and we can set the meeting up from that point.

Just some basic information:

B5

As a side note, there is a facebook page dedicated to this issue:

<https://www.facebook.com/groups/1952593284998859/about/>

David Rotstein, DVM, MPVM, Dipl. ACVP
CVM Vet-LIRN Liaison

B6 (BB)



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From: Hartogenesis, Martine

Sent: Tuesday, May 08, 2018 10:58 AM

To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Subject: RE: DCM

Thank you Jen and Dave! Very interesting and sounds like you all are on it!

B6

B6

Keep us posted!

Thanks again!

Martine

Hi Martine,

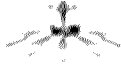
B5

I'm happy to share more info as needed.

Jen

Jennifer Jones, DVM
Veterinary Medical Officer

Tel: 240-402-5421



From: Rotstein, David
Sent: Tuesday, May 08, 2018 9:45 AM
To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Subject: RE: DCM

Martine,

B5

Looping in Jen.

Thanks for the update!

dave

David Rotstein, DVM, MPVM, Dipl. ACVP
CVM Vet-LIRN Liaison
CVM OSC/DC/CERT
7519 Standish Place

B6

(BB)



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From: Hartogensis, Martine
Sent: Tuesday, May 08, 2018 9:00 AM
To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>
Subject: RE: DCM

B5

B5

Martine

From: Rotstein, David
Sent: Monday, May 07, 2018 1:13 PM
To: Hartogenesis, Martine <Martine.Hartogenesis@fda.hhs.gov>
Subject: Re: DCM

Martine

B5

There's a way to go on this moving forward.

Dave

From: Hartogenesis, Martine <Martine.Hartogenesis@fda.hhs.gov>
Date: May 7, 2018 at 1:03:13 PM EDT
To: Rotstein, David <David.Rotstein@fda.hhs.gov>
Subject: DCM

Hi Dave!

Do you have any more details on the DCM and grain free diet issue?

Martine

From: Rotstein, David </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0A3B17EBFCF14A6CB8E94F322906BADD-DROTSTEI>
To: Carey, Lauren; Jones, Jennifer L; Palmer, Lee Anne; Hartogensis, Martine; DeLancey, Siobhan
CC: Burkholder, William; Norris, Anne; Lovell, Randall A; Reimschuessel, Renate; Ceric, Olgica; Nemser, Sarah
Sent: 5/21/2018 11:41:45 AM
Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B4, B5

David Rotstein, DVM, MPVM, Dipl. ACVP
CVM Vet-LIRN Liaison
CVM OSC/DC/CERT
7519 Standish Place

B6



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From: Carey, Lauren
Sent: Monday, May 21, 2018 7:39 AM
To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>
Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

As an FYI, this formulation type is so popular Amazon jumped on board.

<https://www.petfoodindustry.com/articles/7209-amazon-wag-dog-foods-nutrient-content-analyzed-rated?eid=418335734&bid=2101343>

<https://www.amazon.com/WAG-Added-Grain-Lentil-Recipe/dp/B078VV67DT>

INGREDIENTS: BEEF, BEEF MEAL, LENTILS, PEA PROTEIN, PEAS, EGG PRODUCT, CHICKEN FAT (PRESERVED WITH MIXED TOCOPHEROLS), BREWERS YEAST, WILD BOAR, POTATO PROTEIN, DRIED PLAIN BEET PULP, FLAXSEED, NATURAL FLAVOR, SALT, CHOLINE CHLORIDE, DRIED CHICORY ROOT, YUCCA SCHIDIGERA EXTRACT, DRIED LACTOBACILLUS PLANTARUM FERMENTATION PRODUCT, DRIED BACILLUS SUBTILIS FERMENTATION PRODUCT, DRIED LACTOBACILLUS ACIDOPHILUS FERMENTATION PRODUCT, DRIED ENTEROCOCCUS FAECIUM FERMENTATION PRODUCT, DRIED BIFIDOBACTERIUM ANIMALIS FERMENTATION PRODUCT, VITAMIN E SUPPLEMENT, IRON PROTEINATE, ZINC PROTEINATE, COPPER PROTEINATE, FERROUS SULFATE, ZINC SULFATE, COPPER

SULFATE, POTASSIUM IODIDE, THIAMINE MONONITRATE (SOURCE OF VITAMIN B1), MANGANESE PROTEINATE, MANGANOUS OXIDE, ASCORBIC ACID (PRESERVATIVE), VITAMIN A SUPPLEMENT, BIOTIN, NIACIN, CALCIUM PANTOTHENATE, MANGANESE SULFATE, SODIUM SELENITE, PYRIDOXINE HYDROCHLORIDE (SOURCE OF VITAMIN B6), VITAMIN B12 SUPPLEMENT, RIBOFLAVIN (VITAMIN B2), VITAMIN D3 SUPPLEMENT, FOLIC ACID.

B4, B5

From: Jones, Jennifer L

Sent: Friday, May 18, 2018 3:31 PM

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Yes, you're correct Lee Anne.

B4

B5

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



From: Palmer, Lee Anne
Sent: Friday, May 18, 2018 3:29 PM
To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>
Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B4, B5

From: Jones, Jennifer L
Sent: Friday, May 18, 2018 3:24 PM
To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>
Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

I just got a call from Dr. Fascetti with UC Davis-She runs the amino acid laboratory and B5
B5

B5

B5

B5

B5

B5

B5

B5

B5

Jennifer Jones, DVM
Veterinary Medical Officer



From: Palmer, Lee Anne

Sent: Friday, May 18, 2018 3:10 PM

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

<Jennifer.Jones@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

In terms of # reported to us - I would look at (in terms of reports directly to FDA CVM) the top 2 primarily. Dave could do much better with contact info.

B5

There are a variety of others – among those reported to us, several have 1 report per brand, but all grain-free.

B4, B5

From: Hartogensis, Martine

Sent: Friday, May 18, 2018 2:53 PM

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Yes, thank you to everyone on the call.

Anne and I are working on the advisory. In meantime, I think we

B5

B5

Dave, do you have that or any suggestions on how to find contact names/numbers?

Martie

From: Palmer, Lee Anne

Sent: Friday, May 18, 2018 2:09 PM

To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Thanks,
suppose

B5

B5

I also cleaned up and did
this one out!

B5

hanks – hope we can figure

Lee Anne

From: Jones, Jennifer L

Sent: Friday, May 18, 2018 1:54 PM

To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

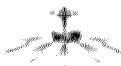
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B5

Any other ideas or suggestions?

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



From: Hartogensis, Martine

Sent: Friday, May 18, 2018 11:58 AM

To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Thank you Jen! Sounds good and looking forward to the meeting.

Martine

From: Jones, Jennifer L

Sent: Friday, May 18, 2018 6:42 AM

To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

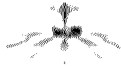
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>;

Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B5

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



From: Hartogensis, Martine

Sent: Thursday, May 17, 2018 7:52 PM

To: DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Yes, excellent work! One question though...do we see

B5

B5

Thanks in advance!

Martine

From: DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Date: May 17, 2018 at 2:27:35 PM EDT

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>, Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>, Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>, Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>, Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B5

From: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Date: May 17, 2018 at 2:14:48 PM EDT

To: DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>, Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>, Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>, Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>, Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Hah! Perfect timing! We're all heading down the same path...

From: DeLancey, Siobhan

Sent: Thursday, May 17, 2018 2:13 PM

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

As luck would have it, I'm at CE today listening to B6 talk about nutrition and cardiomyopathies. See attached slide.

From: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Date: May 17, 2018 at 2:06:04 PM EDT

To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>, Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>, Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>, Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Hi there – is the slide set for tomorrow's meeting? Great work!

B5

B5

B5

B5

From: Hartogensis, Martine

Sent: Thursday, May 17, 2018 11:59 AM

To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Excellent work Jen!!

Just a few questions
DCM?

B5

One other quest
issue?

B5

Martine

From: Jones, Jennifer L

Sent: Thursday, May 17, 2018 11:29 AM

To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>
Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

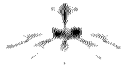
We

B5

B5

Please see the PPT for the rationale/summary

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



From: Rotstein, David
Sent: Monday, May 14, 2018 10:22 AM
To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>
Subject: RE: DCM and meetign with Cardiac Care for Pets

B5

From: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>
Date: May 14, 2018 at 9:09:17 AM EDT
To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>
Subject: RE: DCM and meetign with Cardiac Care for Pets

B5

Martine

From: Palmer, Lee Anne
Sent: Friday, May 11, 2018 4:30 PM
To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>;

Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

From what I've read, it can be a

B5

B5

From: Rotstein, David

Sent: Friday, May 11, 2018 4:14 PM

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

Lee Anne,

This is fantastic

B5

B5

B5

B5

From: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Date: May 11, 2018 at 4:06:05 PM EDT

To: Rotstein, David <David.Rotstein@fda.hhs.gov>, Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

Hi there -

B5

B5

B5

I'll final this up next week, have to get to other things yet today. Have a great weekend! J Lee Anne

B5

From: Rotstein, David
Sent: Wednesday, May 9, 2018 4:13 PM
To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>
Subject: RE: DCM and meetign with Cardiac Care for Pets

Sounds very intriguing!!!

From: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>
Date: May 9, 2018 at 4:09:18 PM EDT
To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>
Subject: RE: DCM and meetign with Cardiac Care for Pets

B5

B5 I want to confirm it, then will send it along – could be Friday before I get this in shape to send... not to leave you hanging, but wanted to be more sure. Definitely, not done today as I'd thought. Thanks!

From: Hartogensis, Martine
Sent: Wednesday, May 9, 2018 2:17 PM

To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>
Subject: RE: DCM and meetign with Cardiac Care for Pets

Awesome, thank you Dave!

Martine

From: Rotstein, David
Sent: Wednesday, May 09, 2018 2:06 PM
To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>
Subject: RE: DCM and meetign with Cardiac Care for Pets

Good Afternoon,

I spoke with B6 Cardiac Care for Pets. He is going to look into times/dates with the cardiologists there and we can set the meeting up from that point.

Just some basic information:

B5

As a side note, there is a facebook page dedicated to this issue:

<https://www.facebook.com/groups/1952593284998859/about/>

David Rotstein, DVM, MPVM, Dipl. ACVP
CVM Vet-LIRN Liaison
CVM OSC/DC/CERT
7519 Standish Place
B5



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From: Hartogensis, Martine
Sent: Tuesday, May 08, 2018 10:58 AM
To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Subject: RE: DCM

Thank you Jen and Dave! Very interesting and sounds like you all are on it!

B6

B6

Keep us posted!

Thanks again!

Martine

Hi Martine,

B5

I'm happy to share more info as needed.

Jen

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



From: Rotstein, David

Sent: Tuesday, May 08, 2018 9:45 AM

To: Hartogenesis, Martine <Martine.Hartogenesis@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Subject: RE: DCM

Martine,

B5

B5

Looping in Jen.

Thanks for the update!

dave

David Rotstein, DVM, MPVM, Dipl. ACVP
CVM Vet-LIRN Liaison
CVM OSC/DC/CERT
7519 Standish Place

B6



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From: Hartogensis, Martine
Sent: Tuesday, May 08, 2018 9:00 AM
To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>
Subject: RE: DCM

B5

Martine

From: Rotstein, David
Sent: Monday, May 07, 2018 1:13 PM
To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>
Subject: Re: DCM

Martine

Lee Anne will likely discuss at [redacted] B5

[redacted] B5

Vet-LIRN is looking into [redacted] B5

[redacted] B5

There's a way to go on this moving forward.

Dave

From: Hartogenesis, Martine <Martine.Hartogenesis@fda.hhs.gov>

Date: May 7, 2018 at 1:03:13 PM EDT

To: Rotstein, David <David.Rotstein@fda.hhs.gov>

Subject: DCM

Hi Dave!

Do you have any more details on the DCM and grain free diet issue?

Martine

From: Hartogenesis, Martine </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=02DF91D554D34B948FC58433D0E42073-MHARTOGE>
To: Palmer, Lee Anne; Jones, Jennifer L; DeLancey, Siobhan; Rotstein, David
CC: Burkholder, William; Carey, Lauren; Norris, Anne; Lovell, Randall A; Reimschuessel, Renate; Ceric, Olgica; Nemser, Sarah
Sent: 5/18/2018 7:13:53 PM
Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B4, B5

Martine

From: Palmer, Lee Anne
Sent: Friday, May 18, 2018 3:10 PM
To: Hartogenesis, Martine <Martine.Hartogenesis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>
Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

In terms of # reported to us - I would look at (in terms of reports directly to FDA CVM) the top 2 primarily. Dave could do much better with contact info.

B4, B5

From: Hartogenesis, Martine
Sent: Friday, May 18, 2018 2:53 PM
To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>
Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Yes, thank you to everyone on the call.

B5

Martie

From: Palmer, Lee Anne

Sent: Friday, May 18, 2018 2:09 PM

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

<Martine.Hartogensis@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>;

Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel,

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

<Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B5

Lee Anne

From: Jones, Jennifer L

Sent: Friday, May 18, 2018 1:54 PM

To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; DeLancey, Siobhan

<Siobhan.Delancey@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Rotstein, David

<David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>;

Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel,

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

<Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B5

Any other ideas or suggestions?

Jennifer Jones, DVM

Veterinary Medical Officer

Tel: 240-402-5421



From: Hartogensis, Martine

Sent: Friday, May 18, 2018 11:58 AM

To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>;

Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>;

Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel,

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

<Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Thank you Jen! Sounds good and looking forward to the meeting.

Martine

From: Jones, Jennifer L
Sent: Friday, May 18, 2018 6:42 AM
To: Hartogenesis, Martine <Martine.Hartogenesis@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>
Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

CVCA is not a part of Vet-LIRN.

B5

B5

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



From: Hartogenesis, Martine
Sent: Thursday, May 17, 2018 7:52 PM
To: DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>
Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Yes, excellent work! One question though...do we see

B5

with CVCA? Are they part of VET-LIRN?

Thanks in advance!

Martine

From: DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>
Date: May 17, 2018 at 2:27:35 PM EDT
To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>, Hartogenesis, Martine <Martine.Hartogenesis@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>, Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>, Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>, Nemser, Sarah

<Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B5

From: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Date: May 17, 2018 at 2:14:48 PM EDT

To: DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>, Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>, Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>, Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>, Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Hah! Perfect timing! We're all heading down the same path...

From: DeLancey, Siobhan

Sent: Thursday, May 17, 2018 2:13 PM

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

As luck would have it, I'm at CE today listening to **B6** talk about nutrition and cardiomyopathies. See attached slide.

From: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Date: May 17, 2018 at 2:06:04 PM EDT

To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>, Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>, Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>, Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Hi there – is the slide set for tomorrow's meeting? Great work!

B5

B5

B5

B5

B5

From: Hartogensis, Martine

Sent: Thursday, May 17, 2018 11:59 AM

To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Excellent work Jen!!

Just a few questions. On slide 6 (or the spreadsheet);

B5

DCM?

One other question –
issue?

B5

Martine

From: Jones, Jennifer L

Sent: Thursday, May 17, 2018 11:29 AM

To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

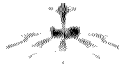
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B5

Please see the PPT for the rationale/summary

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



From: Rotstein, David

Sent: Monday, May 14, 2018 10:22 AM

To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

I do not know

B5

From: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>

Date: May 14, 2018 at 9:09:17 AM EDT

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

This is very interesting about:

B5

B5

Dave, do you have any idea

Martine

From: Palmer, Lee Anne

Sent: Friday, May 11, 2018 4:30 PM

To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

From what I've read, it can be

B5

B5

B5

From: Rotstein, David

Sent: Friday, May 11, 2018 4:14 PM

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

Lee Anne,

This is fantastic.

B5

B5

B5

B5

From: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Date: May 11, 2018 at 4:06:05 PM EDT

To: Rotstein, David <David.Rotstein@fda.hhs.gov>, Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

Hi there –

B5

B5

I'll final this up next week, have to get to other things yet today. Have a great weekend! J Lee Anne

B5

From: Rotstein, David

Sent: Wednesday, May 9, 2018 4:13 PM

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

<Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>;

Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

Sounds very intriguing!!!

From: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Date: May 9, 2018 at 4:09:18 PM EDT

To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

B5

B5 I want to confirm it, then will send it along – could be Friday before I get this in shape to send... not to leave you hanging, but wanted to be more sure. Definitely, not done today as I'd thought. Thanks!

From: Hartogensis, Martine

Sent: Wednesday, May 9, 2018 2:17 PM

To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

Awesome, thank you Dave!

Martine

From: Rotstein, David

Sent: Wednesday, May 09, 2018 2:06 PM

To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

Good Afternoon,

I spoke with **B6** Cardiac Care for Pets. He is going to look into times/dates with the cardiologists there and we can set the meeting up from that point.

Just some basic information:

B5

As a side note, there is a facebook page dedicated to this issue:

<https://www.facebook.com/groups/1952593284998859/about/>

David Rotstein, DVM, MPVM, Dipl. ACVP
CVM Vet-LIRN Liaison
CVM OSC/DC/CERT
7519 Standish Place

B6



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From: Hartogenesis, Martine

Sent: Tuesday, May 08, 2018 10:58 AM

To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Subject: RE: DCM

Thank you Jen and Dave! Very interesting and sounds like you all are on it!

B6

B6

Keep us posted!

Thanks again!

Martine

Hi Martine,

B5

I'm happy to share more info as needed.

Jen

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



From: Rotstein, David

Sent: Tuesday, May 08, 2018 9:45 AM

To: Hartogenesis, Martine <Martine.Hartogenesis@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Subject: RE: DCM

Martine,

B5

Looping in Jen.

Thanks for the update!

dave

David Rotstein, DVM, MPVM, Dipl. ACVP
CVM Vet-LIRN Liaison
CVM OSC/DC/CERT
7519 Standish Place

B6



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From: Hartogenesis, Martine

Sent: Tuesday, May 08, 2018 9:00 AM

To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Subject: RE: DCM

B5

Martine

From: Rotstein, David

Sent: Monday, May 07, 2018 1:13 PM

To: Hartogenesis, Martine <Martine.Hartogenesis@fda.hhs.gov>

Subject: Re: DCM

Martine

Lee Anne will likely discuss at [REDACTED] **B5** But it does look like there is a relationship between the increased DCM reports and grain free diets.

Vet-LIRN is looking into [REDACTED] **B5**
[REDACTED] **B5**

There's a way to go on this moving forward.

Dave

From: Hartogenesis, Martine <Martine.Hartogenesis@fda.hhs.gov>
Date: May 7, 2018 at 1:03:13 PM EDT
To: Rotstein, David <David.Rotstein@fda.hhs.gov>
Subject: DCM

Hi Dave!

Do you have any more details on the DCM and grain free diet issue?

Martine

From: Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo>
To: Burkholder, William
Sent: 6/18/2018 12:01:06 PM
Subject: RE: 800.267-DCM and meeting with Cardiac Care for Pets

Excellent! Thanks, Bill.

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



From: Burkholder, William
Sent: Sunday, June 17, 2018 8:49 PM
To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Subject: RE: 800.267-DCM and meeting with Cardiac Care for Pets

Hi Jen,

First, thanks for compiling my literature reading list for the next few weeks (I am being serious in my thanks). Attached are the two documents you requested comment on with edits and comments in track changes. Keep or reject as you see fit. As always, thank you for the opportunity to comment.

Bill

From: Jones, Jennifer L
Sent: Monday, June 11, 2018 12:06 PM
To: Norris, Anne <Anne.Norris@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Edwards, David <David.Edwards@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Burkholder, William <William.Burkholder@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>
Cc: Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Conway, Charlotte <Charlotte.Conway@fda.hhs.gov>; Atkinson, Krisztina Z <Krisztina.Atkinson@fda.hhs.gov>; Hodges, April <April.Hodges@fda.hhs.gov>
Subject: RE: 800.267-DCM and meeting with Cardiac Care for Pets

Good morning everyone,
Vet-LIRN created a procedure document that outlines a prospective case investigation for new complaints about DCM and consuming grain free products. We plan to: [redacted] B5

[redacted] B5 However, we will be: [redacted] B5 to [redacted] B5

Please let me know if you have feedback or comments by COB Friday (6/15).

Thank you,
Jen

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



From: Norris, Anne

Sent: Tuesday, May 22, 2018 9:24 AM

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Edwards, David <David.Edwards@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Burkholder, William <William.Burkholder@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Cc: Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Conway, Charlotte <Charlotte.Conway@fda.hhs.gov>; Atkinson, Krisztina Z <Krisztina.Atkinson@fda.hhs.gov>; Hodges, April <April.Hodges@fda.hhs.gov>

Subject: RE: 800.267-DCM and meeting with Cardiac Care for Pets

Thank you for explaining

B5

B5

From: Palmer, Lee Anne

Sent: Tuesday, May 22, 2018 9:13 AM

To: Norris, Anne <Anne.Norris@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Edwards, David <David.Edwards@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Burkholder, William <William.Burkholder@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Cc: Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Conway, Charlotte <Charlotte.Conway@fda.hhs.gov>; Atkinson, Krisztina Z <Krisztina.Atkinson@fda.hhs.gov>; Hodges, April <April.Hodges@fda.hhs.gov>

Subject: RE: 800.267-DCM and meeting with Cardiac Care for Pets

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B4, B5

From: Norris, Anne

Sent: Tuesday, May 22, 2018 8:49 AM

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Edwards, David <David.Edwards@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Burkholder, William <William.Burkholder@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Cc: Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Ceric,

Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Conway, Charlotte <Charlotte.Conway@fda.hhs.gov>; Atkinson, Krisztina Z <Krisztina.Atkinson@fda.hhs.gov>; Hodges, April <April.Hodges@fda.hhs.gov>

Subject: RE: 800.267-DCM and meeting with Cardiac Care for Pets

That should be fine. I apologize if we already discussed this;

B5

B5

From: Palmer, Lee Anne

Sent: Tuesday, May 22, 2018 8:39 AM

To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Edwards, David <David.Edwards@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Burkholder, William <William.Burkholder@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Cc: Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Conway, Charlotte <Charlotte.Conway@fda.hhs.gov>; Atkinson, Krisztina Z <Krisztina.Atkinson@fda.hhs.gov>; Hodges, April <April.Hodges@fda.hhs.gov>

Subject: RE: 800.267-DCM and meeting with Cardiac Care for Pets

If we go forward,

B5

B5

From: Rotstein, David

Sent: Tuesday, May 22, 2018 8:37 AM

To: Norris, Anne <Anne.Norris@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Edwards, David <David.Edwards@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Burkholder, William <William.Burkholder@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Cc: Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Conway, Charlotte <Charlotte.Conway@fda.hhs.gov>; Atkinson, Krisztina Z <Krisztina.Atkinson@fda.hhs.gov>; Hodges, April <April.Hodges@fda.hhs.gov>

Subject: RE: 800.267-DCM and meeting with Cardiac Care for Pets

Anne,

Agreed.

Part of this outreach is for us to directly contact firms.

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David Rotstein, DVM, MPVM, Dipl. ACVP
CVM Vet-LIRN Liaison
CVM OSC/DC/CERT
7519 Standish Place

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BB)





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From: Norris, Anne

Sent: Tuesday, May 22, 2018 8:34 AM

To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Edwards, David <David.Edwards@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Burkholder, William <William.Burkholder@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Cc: Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Conway, Charlotte <Charlotte.Conway@fda.hhs.gov>; Atkinson, Krisztina Z <Krisztina.Atkinson@fda.hhs.gov>; Hodges, April <April.Hodges@fda.hhs.gov>

Subject: RE: 800.267-DCM and meeting with Cardiac Care for Pets

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B5

We could update the advisory further as more information comes in.

From: Jones, Jennifer L

Sent: Tuesday, May 22, 2018 8:31 AM

To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Edwards, David <David.Edwards@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Burkholder, William <William.Burkholder@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Cc: Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Conway, Charlotte <Charlotte.Conway@fda.hhs.gov>; Atkinson, Krisztina Z <Krisztina.Atkinson@fda.hhs.gov>; Hodges, April <April.Hodges@fda.hhs.gov>

Subject: RE: 800.267-DCM and meeting with Cardiac Care for Pets

B5

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



From: Rotstein, David

Sent: Tuesday, May 22, 2018 8:25 AM

To: Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Edwards, David <David.Edwards@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Burkholder, William <William.Burkholder@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Cc: Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Conway, Charlotte <Charlotte.Conway@fda.hhs.gov>; Atkinson, Krisztina Z

<Krisztina.Atkinson@fda.hhs.gov>; Hodges, April <April.Hodges@fda.hhs.gov>

Subject: RE: 800.267-DCM and meeting with Cardiac Care for Pets

B5

David Rotstein, DVM, MPVM, Dipl. ACVP
CVM Vet-LIRN Liaison
CVM OSC/DC/CERT
7519 Standish Place
B6 (BB)



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From: Reimschuessel, Renate

Sent: Tuesday, May 22, 2018 8:18 AM

To: Edwards, David <David.Edwards@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Burkholder, William <William.Burkholder@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Cc: Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Conway, Charlotte <Charlotte.Conway@fda.hhs.gov>; Atkinson, Krisztina Z <Krisztina.Atkinson@fda.hhs.gov>; Hodges, April <April.Hodges@fda.hhs.gov>

Subject: RE: 800.267-DCM and meeting with Cardiac Care for Pets

I agree with a careful approach to this investigation.

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Just some food for thought... rr

Renate Reimschuessel V.M.D. Ph.D. Vet-LIRN
Phone 1-240-402-5404
Fax 301-210-4685
<http://www.fda.gov/AnimalVeterinary/ScienceResearch/ucm247334.htm>

From: Edwards, David
Sent: Tuesday, May 22, 2018 7:54 AM
To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Burkholder, William <William.Burkholder@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>
Cc: Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Conway, Charlotte <Charlotte.Conway@fda.hhs.gov>; Atkinson, Krisztina Z <Krisztina.Atkinson@fda.hhs.gov>; Hodges, April <April.Hodges@fda.hhs.gov>
Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Hi everyone,

B5

B5

Not meaning to restart any prior conversations about these topics:

B5

B5

Thanks,
Dave

From: Rotstein, David
Sent: Monday, May 21, 2018 7:49 AM
To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Burkholder, William <William.Burkholder@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>
Cc: Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A

<Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Conway, Charlotte <Charlotte.Conway@fda.hhs.gov>; Edwards, David <David.Edwards@fda.hhs.gov>; Atkinson, Krisztina Z <Krisztina.Atkinson@fda.hhs.gov>; Hodges, April <April.Hodges@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Yes, if I can get the complete list of products so that I don't miss any, we will reach out to the Divisions and provide a general summary of what is going on and then work with the Divisions on setting up calls.

David Rotstein, DVM, MPVM, Dipl. ACVP
CVM Vet-LIRN Liaison
CVM OSC/DC/CERT
7519 Standish Place
B6 (BB)



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From: Hartogenesis, Martine
Sent: Monday, May 21, 2018 7:47 AM
To: Burkholder, William <William.Burkholder@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>
Cc: Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Conway, Charlotte <Charlotte.Conway@fda.hhs.gov>; Edwards, David <David.Edwards@fda.hhs.gov>; Atkinson, Krisztina Z <Krisztina.Atkinson@fda.hhs.gov>
Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Thanks Bill and your concerns are noted!

B5

Thank you all for your help and dedication to this fascinating issue!

Martine

From: Burkholder, William

Sent: Friday, May 18, 2018 5:04 PM

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>; Conway, Charlotte <Charlotte.Conway@fda.hhs.gov>; Edwards, David <David.Edwards@fda.hhs.gov>; Atkinson, Krisztina Z <Krisztina.Atkinson@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

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Bill

What Socrates is really supposed to have said: *"The only true wisdom is in knowing that you know nothing."

From: Palmer, Lee Anne

Sent: Friday, May 18, 2018 2:09 PM

To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Thanks, Jen, very interesting issue!

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Lee Anne

From: Jones, Jennifer L

Sent: Friday, May 18, 2018 1:54 PM

To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B5

Any other ideas or suggestions?

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



From: Hartogensis, Martine

Sent: Friday, May 18, 2018 11:58 AM

To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Thank you Jen! Sounds good and looking forward to the meeting.

Martine

From: Jones, Jennifer L

Sent: Friday, May 18, 2018 6:42 AM

To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

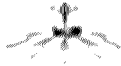
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>;

Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B5

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



From: Hartogensis, Martine

Sent: Thursday, May 17, 2018 7:52 PM

To: DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Yes, excellent work! One question though...

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Thanks in advance!

Martine

From: DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>

Date: May 17, 2018 at 2:27:35 PM EDT

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>, Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>, Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>, Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>, Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

B5

From: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Date: May 17, 2018 at 2:14:48 PM EDT

To: DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>, Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>, Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>, Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>, Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Hah! Perfect timing! We're all heading down the same path...

From: DeLancey, Siobhan

Sent: Thursday, May 17, 2018 2:13 PM

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

As luck would have it, I'm at CE today listening to B6 talk about nutrition and cardiomyopathies. See attached slide.

From: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Date: May 17, 2018 at 2:06:04 PM EDT

To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>, Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>, Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>, Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

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From: Hartogenesis, Martine

Sent: Thursday, May 17, 2018 11:59 AM

To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>

Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

Excellent work Jen!!

Just a few questions.

B5

B5

B5

Martine

From: Jones, Jennifer L

Sent: Thursday, May 17, 2018 11:29 AM

To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Hartogenesis, Martine <Martine.Hartogenesis@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>; Reimschuessel, Renate <Renate.Reimschuessel@fda.hhs.gov>; Ceric, Olgica <Olgica.Ceric@fda.hhs.gov>; Nemser, Sarah <Sarah.Nemser@fda.hhs.gov>
Subject: RE: 800.267-DCM and meetign with Cardiac Care for Pets

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Please see the PPT for the rationale/summary

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



From: Rotstein, David
Sent: Monday, May 14, 2018 10:22 AM
To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>
Subject: RE: DCM and meetign with Cardiac Care for Pets

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Once we get a better handle on a specific cause, we can work on that.

From: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>
Date: May 14, 2018 at 9:09:17 AM EDT
To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>
Subject: RE: DCM and meetign with Cardiac Care for Pets

This is very interesting. **B5** ..Dave, do you have any idea

B5

Martine

From: Palmer, Lee Anne
Sent: Friday, May 11, 2018 4:30 PM
To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>;

Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

B5

From: Rotstein, David

Sent: Friday, May 11, 2018 4:14 PM

To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>; Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

Lee Anne,

This is fantastic.

B5

I think

B5

B5

From: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Date: May 11, 2018 at 4:06:05 PM EDT

To: Rotstein, David <David.Rotstein@fda.hhs.gov>, Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>, Lovell, Randall A <Randall.Lovell@fda.hhs.gov>

Subject: RE: DCM and meetign with Cardiac Care for Pets

B5

B5

B5

B5

I'll final this up next week, have to get to other things yet today. Have a great weekend! J Lee Anne

B5

From: Rotstein, David
Sent: Wednesday, May 9, 2018 4:13 PM
To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>
Subject: RE: DCM and meetign with Cardiac Care for Pets

Sounds very intriguing!!!

From: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>
Date: May 9, 2018 at 4:09:18 PM EDT
To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>, Rotstein, David <David.Rotstein@fda.hhs.gov>, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>, Carey, Lauren <Lauren.Carey@fda.hhs.gov>, Norris, Anne <Anne.Norris@fda.hhs.gov>, DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>
Subject: RE: DCM and meetign with Cardiac Care for Pets

Hi – the deeper I dia through this data, the more interesting it is becoming.

B5

B6

B5

B5

From: Hartogensis, Martine
Sent: Wednesday, May 9, 2018 2:17 PM

To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>
Subject: RE: DCM and meetign with Cardiac Care for Pets

Awesome, thank you Dave!

Martine

From: Rotstein, David
Sent: Wednesday, May 09, 2018 2:06 PM
To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>
Cc: Burkholder, William <William.Burkholder@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Norris, Anne <Anne.Norris@fda.hhs.gov>; DeLancey, Siobhan <Siobhan.Delancey@fda.hhs.gov>
Subject: RE: DCM and meetign with Cardiac Care for Pets

Good Afternoon,

I spoke with [B6] Cardiac Care for Pets. He is going to look into times/dates with the cardiologists there and we can set the meeting up from that point.

Just some basic information:

B5

As a side note, there is a facebook page dedicated to this issue:

<https://www.facebook.com/groups/1952593284998859/about/>

David Rotstein, DVM, MPVM, Dipl. ACVP
CVM Vet-LIRN Liaison
CVM OSC/DC/CERT
7519 Standish Place
[B6] (BB)



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From: Hartogensis, Martine
Sent: Tuesday, May 08, 2018 10:58 AM
To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Rotstein, David <David.Rotstein@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>

Subject: RE: DCM

Thank you Jen and Dave! Very interesting and sounds like you all are on it!

B6

B6

Keep us posted!

Thanks again!

Martine

Hi Martine.

B5

I'm happy to share more info as needed.

Jen

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



From: Rotstein, David

Sent: Tuesday, May 08, 2018 9:45 AM

To: Hartogenesis, Martine <Martine.Hartogenesis@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>

Subject: RE: DCM

Martine,

B5

B5

Looping in Jen.

Thanks for the update!

dave

David Rotstein, DVM, MPVM, Dipl. ACVP
CVM Vet-LIRN Liaison
CVM OSC/DC/CERT
7519 Standish Place
B6 **(BB)**



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From: Hartogensis, Martine
Sent: Tuesday, May 08, 2018 9:00 AM
To: Rotstein, David <David.Rotstein@fda.hhs.gov>; Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>
Subject: RE: DCM

B5

B5

Martine

From: Rotstein, David
Sent: Monday, May 07, 2018 1:13 PM
To: Hartogensis, Martine <Martine.Hartogensis@fda.hhs.gov>
Subject: Re: DCM

Martine

B5

There's a way to go on this moving forward.

Dave

From: Hartogenesis, Martine <Martine.Hartogenesis@fda.hhs.gov>

Date: May 7, 2018 at 1:03:13 PM EDT

To: Rotstein, David <David.Rotstein@fda.hhs.gov>

Subject: DCM

Hi Dave!

Do you have any more details on the DCM and grain free diet issue?

Martine

From: Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo>
To: 'Andrea Fascetti'
Sent: 8/17/2018 2:48:55 PM
Subject: [REDACTED] **B5**

Hi Andrea,

I had a quick question. I'm trying to order the [REDACTED] **B5** but does it matter [REDACTED] **B5**? I referenced the [REDACTED] **B5** paper you sent but couldn't find any specifics of the chemical formula.

I hope you and your family are doing well, including your dog after the quarantine period J

Thanks again and take care,

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>



From: Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo>
To: 'Andrea Fascetti'
Sent: 8/20/2018 10:47:59 AM
Subject: RE: [REDACTED] **B5**

Excellent, thank you, Andrea. Please give my thanks to [REDACTED] **B6** as well. We can make the [REDACTED] **B5** solution from the [REDACTED] **B5**

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



From: Andrea Fascetti [mailto:ajfascetti@ucdavis.edu]
Sent: Saturday, August 18, 2018 6:43 PM
To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Subject: Re: [REDACTED] **B5**

Hello Jen -

I posed this question to [REDACTED] **B5** and here is his reply:

[REDACTED] **B5**

I will try to find out why he prefers using the chemical form - it may be as simple as cost. I sent an email but have not heard back - I have been on clinics all week and he has been pulling long hours.

I will try to track him down on Monday. We got in over 100 samples last week alone. Happy to catch up with you if we can be of any help with regard to the taurine matter.

[REDACTED] **B5**

Kind regards and I hope you are getting some time to enjoy the summer.

Andrea

On Aug 17, 2018, at 7:48 AM, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov> wrote:

Hi Andrea,
I had a quick question. I'm trying to order the [REDACTED] **B6** but does it matter [REDACTED] **B5**? I referenced the [REDACTED] **B5** paper you sent but couldn't find any specifics of the chemical formula.

I hope you and your family are doing well, including your dog after the quarantine period J
Thanks again and take care,
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>
<image001.png> <image004.png>

From: Jones, Jennifer L </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0F6CA12EAA9348959A4CBB1E829AF244-JENNIFER.JO>
To: [REDACTED] B6
Sent: 7/5/2019 4:34:49 PM
Subject: [REDACTED] B6 FDA-CVCA Study for Dilated Cardiomyopathy
Importance: High
Attachments: 03-Vet-LIRN-Network ProceduresOwners-12.22.2015.pdf

Good afternoon [REDACTED] B6

I am sorry that you lost [REDACTED] B6. Please accept my condolences. We have been working with CVCA to better understand Dilated Cardiomyopathy in dogs that ate pet foods labelled "grain free" and contain higher amounts of legumes and/or potato products. As part of that investigation, we would like to ask you some questions about [REDACTED] B6 past diet and environmental exposures.

The phone interview lasts approximately 30 minutes. Please send me 3 times when you would be available to speak between 6:30 am and 3 pm the following days:

- 7/11
- 7/12
- 7/15
- 7/16
- 7/17
- 7/18

I attached a copy of our network procedures. They describe how owners help with our case investigations. Thank you kindly,
Dr. Jones

Jennifer L. A. Jones, DVM

Veterinary Medical Officer
U.S. Food & Drug Administration
Center for Veterinary Medicine
Office of Research
Veterinary Laboratory Investigation and Response Network (Vet-LIRN)
8401 Muirkirk Road, G704
Laurel, Maryland 20708
new tel: 240-402-5421
fax: 301-210-4685
e-mail: jennifer.jones@fda.hhs.gov
Web: <http://www.fda.gov/AnimalVeterinary/ScienceResearch/ucm247334.htm>



From: Jones, Jennifer L </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0F6CA12EAA9348959A4CBB1E829AF244-JENNIFER.JO>
To: [REDACTED] B6
Sent: 7/5/2019 4:51:54 PM
Subject: [REDACTED] B6 FDA-CVCA Study for Dilated Cardiomyopathy
Importance: High
Attachments: 03-Vet-LIRN-Network ProceduresOwners-12.22.2015.pdf

Good afternoon Mr. [REDACTED] B6

We have been working with CVCA to better understand Dilated Cardiomyopathy in dogs that ate pet foods labelled "grain free" and contain higher amounts of legumes and/or potato products. As part of that investigation, we would like to ask you some questions about [REDACTED] B6's past and current diet and environmental exposures.

The phone interview lasts approximately 30 minutes. Please send me 3 times when you would be available to speak between 6:30 am and 3 pm eastern time the following days:

- 7/11
- 7/12
- 7/15
- 7/16
- 7/17
- 7/18

I attached a copy of our network procedures. They describe how owners help with our case investigations.

Thank you kindly,

Dr. Jones

Jennifer L. A. Jones, DVM

Veterinary Medical Officer
U.S. Food & Drug Administration
Center for Veterinary Medicine
Office of Research
Veterinary Laboratory Investigation and Response Network (Vet-LIRN)
8401 Muirkirk Road, G704
Laurel, Maryland 20708
new tel: 240-402-5421
fax: 301-210-4685
e-mail: jennifer.jones@fda.hhs.gov
Web: <http://www.fda.gov/AnimalVeterinary/ScienceResearch/ucm247334.htm>





Network Procedures for Veterinary Laboratory Investigation and Response Network Case Investigations

Network Procedures for Owners

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

The following items are explained below:

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

1. General Introduction:

1.1. What is the goal of the case investigation?

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

1.2. What is the focus of a case investigation?

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

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

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

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

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



Network Procedures for Veterinary Laboratory Investigation and Response Network Case Investigations

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

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

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

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

2. Billing:

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

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

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

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

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

No, we cannot pay for treatment or cremation.



Network Procedures for Veterinary Laboratory Investigation and Response Network Case Investigations

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

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

3. Step by Step Process:

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

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

Vet-LIRN requests that:

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

4. Types of Services and Tests:

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

A veterinary examination may include:

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

4.2. Will your animal be tested more than once?



Network Procedures for Veterinary Laboratory Investigation and Response Network Case Investigations

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

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

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

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

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

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

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

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

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

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

From: Jones, Jennifer L </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0F6CA12EAA9348959A4CBB1E829AF244-JENNIFER.JO>
To: [REDACTED] B6
Sent: 7/18/2019 11:11:54 AM
Subject: RE: [REDACTED] B6 FDA-CVCA Study for Dilated Cardiomyopathy
Importance: High

Good morning Mr. [REDACTED] B6

Are you interested in speaking with me about [REDACTED] B6 case? Please see my previous email below.

If so, please send me your availability for a 30-minute phone call on the following days:

- Tuesday July 23: 10 am to 12 noon eastern, or 1 to 3 pm
- Wednesday July 24: 6:30 am to 11 am eastern
- Thursday July 25: 6:30 am to 3 pm eastern
- Friday July 26: 6:30 am to 11:30 am eastern.

If you are unwilling to perform the interview, please let me know. I can then remove you from the interview list.

Thank you,

Dr. Jones

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



From: Jones, Jennifer L
Sent: Friday, July 05, 2019 12:52 PM
To: [REDACTED] B6
Subject: [REDACTED] B6 FDA-CVCA Study for Dilated Cardiomyopathy
Importance: High

Good afternoon [REDACTED] B6

We have been working with CVCA to better understand Dilated Cardiomyopathy in dogs that ate pet foods labelled "grain free" and contain higher amounts of legumes and/or potato products. As part of that investigation, we would like to ask you some questions about [REDACTED] B6's past and current diet and environmental exposures.

The phone interview lasts approximately 30 minutes. Please send me 3 times when you would be available to speak between 6:30 am and 3 pm eastern time the following days:

- 7/11
- 7/12
- 7/15
- 7/16
- 7/17
- 7/18

I attached a copy of our network procedures. They describe how owners help with our case investigations.

Thank you kindly,

Dr. Jones

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

new tel: 240-402-5421

fax: 301-210-4685

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

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



From: Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo>
To: 'Andrea Fascetti'
Sent: 3/25/2019 6:57:47 PM
Subject: reference ranges for plasma amino acids

Hi Andrea,

Do you have specific reference

B5

B5

Thank you in advance,
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>



From: [REDACTED] B6
To: Jones, Jennifer L; Andrea Fascetti
CC: Guag, Jake
Sent: 4/1/2019 11:34:02 PM
Subject: Re: Heads up: Vet-LIRN (FDA) shipped 800.267 samples

Hi Dr. Jones,

I will correct the mislabels and get back to you tomorrow.

Thanks,

[REDACTED] B6

From: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Sent: Monday, April 1, 2019 4:30 AM
To: Andrea Fascetti; [REDACTED] B6
Cc: Guag, Jake
Subject: RE: Heads up: Vet-LIRN (FDA) shipped 800.267 samples

Good morning Andrea and [REDACTED] B6

I was reviewing the results and needed some clarification of the results for 2 cases. The results you sent show plasma amino acid values for cv-09 but not cv-14. However, I did not send any plasma for cv-09. I did send plasma for cv-14 (attached inventory sheet). Can you please clarify which set of plasma values belong to cv-14?

Thank you in advance and have a wonderful week,

Jen

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



From: Andrea Fascetti <ajfascetti@ucdavis.edu>
Sent: Saturday, March 23, 2019 1:30 PM
To: [REDACTED] B6
Cc: Guag, Jake <Jake.Guag@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Subject: Re: Heads up: Vet-LIRN (FDA) shipped 800.267 samples

Hello Jen and Jake- Please see attached file with your results. Thanks for the heads-up on the species. We have to know in case someone in the lab comes in contact with the blood (especially through a cut). Our occupational health and safety folks then have us file a report and follow up on those cases to ensure vaccination status etc.

We will bill according to your comments below.

Have a nice weekend.

Andrea

On Mar 21, 2019, at 10:51 AM, [REDACTED] B6 wrote:

Hi Jake,

May you help to confirm the samples are for dogs or cats? I could not find the information

Thanks,

B6

From: Guag, Jake <Jake.Guag@fda.hhs.gov>

Sent: Tuesday, March 12, 2019 8:53 AM

To: B6

Cc: Jones, Jennifer L

Subject: Heads up: Vet-LIRN (FDA) shipped 800.267 samples

Hi Joshua,

Hope you are well. We shipped 800.267 samples on dry ice to you.

Box#1 has urine samples its tracking number is 1ZA4420T0194520315 with UPS.

Box#2 has whole blood and serum samples and its tracking number is 1ZA4420T0192121929 with UPS. Both boxes are expected to arrive your location tomorrow (Mar. 13th, 2019)

Please charge the urine sample analysis under AA contract.

Please provide invoice for the blood and serum analysis.

Thank you

Jake

Jake Guag, MPH, CPH

Biologist (FDA/CVM/OR/Vet-LIRN)

8401 Muirkirk Road

Laurel, Maryland 20708

Email: jake.guag@fda.hhs.gov

Tel: 240-402-0917

From: Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo>
To: [REDACTED] B6 Andrea Fascetti
CC: Guag, Jake
Sent: 4/2/2019 11:19:19 AM
Subject: RE: Heads up: Vet-LIRN (FDA) shipped 800.267 samples

Received. Thank you, [REDACTED] B6

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



From: [REDACTED] B6
Sent: Monday, April 01, 2019 8:06 PM
To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Andrea Fascetti <ajfascetti@ucdavis.edu>
Cc: Guag, Jake <Jake.Guag@fda.hhs.gov>
Subject: Re: Heads up: Vet-LIRN (FDA) shipped 800.267 samples

Hi Dr. Jones,

Attached please find the corrected data file.

Kind Regards,

[REDACTED] B6

From: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Sent: Monday, April 1, 2019 4:30 AM
To: Andrea Fascetti; [REDACTED] B6
Cc: Guag, Jake
Subject: RE: Heads up: Vet-LIRN (FDA) shipped 800.267 samples

Good morning Andrea and [REDACTED] B6

I was reviewing the results and needed some clarification of the results for 2 cases. The results you sent show plasma amino acid values for cv-09 but not cv-14. However, I did not send any plasma for cv-09. I did send plasma for cv-14 (attached inventory sheet). Can you please clarify which set of plasma values belong to cv-14? Thank you in advance and have a wonderful week,
Jen

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



From: Andrea Fascetti <ajfascetti@ucdavis.edu>
Sent: Saturday, March 23, 2019 1:30 PM
To: [REDACTED] B6
Cc: Guag, Jake <Jake.Guag@fda.hhs.gov>; Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Subject: Re: Heads up: Vet-LIRN (FDA) shipped 800.267 samples

Hello Jen and Jake- Please see attached file with your results. Thanks for the heads-up on the species. We have to know in case someone in the lab comes in contact with the blood (especially through a cut). Our occupational health and safety folks then have us file a report and follow up on those cases to ensure vaccination status etc.

We will bill according to your comments below.

Have a nice weekend.

Andrea

On Mar 21, 2019, at 10:51 AM, [REDACTED] B6 [REDACTED]@ucdavis.edu> wrote:

Hi Jake,

May you help to confirm the samples are for dogs or cats? I could not find the information

Thanks,

[REDACTED] B6 [REDACTED]

From: Guag, Jake <Jake.Guag@fda.hhs.gov>
Sent: Tuesday, March 12, 2019 8:53 AM
To: [REDACTED] B6 [REDACTED]
Cc: Jones, Jennifer L
Subject: Heads up: Vet-LIRN (FDA) shipped 800.267 samples

Hi [REDACTED] B6 [REDACTED]

Hope you are well. We shipped 800.267 samples on dry ice to you.
Box#1 has urine samples its tracking number is 1ZA4420T0194520315 with UPS.
Box#2 has whole blood and serum samples and its tracking number is 1ZA4420T0192121929 with UPS. Both boxes are expected to arrive your location tomorrow (Mar. 13th, 2019)

Please charge the urine sample analysis under AA contract.
Please provide invoice for the blood and serum analysis.

Thank you
Jake

Jake Guag, MPH, CPH
Biologist (FDA/CVM/OR/Vet-LIRN)
8401 Muirkirk Road
Laurel, Maryland 20708
Email: jake.guag@fda.hhs.gov
Tel: 240-402-0917

From: Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo>
To: B6
CC: 'Guag, Jake * (Jake.Guag@fda.hhs.gov)'
Sent: 3/22/2019 10:35:43 AM
Subject: RE: Heads up: Vet-LIRN (FDA) shipped 800.267 samples

Hi B6
They are all dogs.
Thank you,
Jen

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



From: Guag, Jake
Sent: Thursday, March 21, 2019 2:09 PM
To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Subject: RE: Heads up: Vet-LIRN (FDA) shipped 800.267 samples

Jen, could you please provide me info or where I can find the info?

Thanks
Jake

From: B6
Sent: Thursday, March 21, 2019 1:52 PM
To: Andrea Fascetti <ajfascetti@ucdavis.edu>
Cc: Guag, Jake <Jake.Guag@fda.hhs.gov>
Subject: Fw: Heads up: Vet-LIRN (FDA) shipped 800.267 samples

Hi Jake,

May you help to confirm the samples are for dogs or cats? I could not find the information

Thanks,

B6

From: Guag, Jake <Jake.Guag@fda.hhs.gov>
Sent: Tuesday, March 12, 2019 8:53 AM
To: B6
Cc: Jones, Jennifer L
Subject: Heads up: Vet-LIRN (FDA) shipped 800.267 samples

Hi B6
Hope you are well. We shipped 800.267 samples on dry ice to you.
Box#1 has urine samples its tracking number is 1ZA4420T0194520315 with UPS.
Box#2 has whole blood and serum samples and its tracking number is 1ZA4420T0192121929 with UPS. Both boxes are expected to arrive your location tomorrow (Mar. 13th, 2019)

Please charge the urine sample analysis under AA contract.

Please provide invoice for the blood and serum analysis.

Thank you
Jake

Jake Guag, MPH, CPH
Biologist (FDA/CVM/OR/Vet-LIRN)
8401 Muirkirk Road
Laurel, Maryland 20708
Email: jake.guag@fda.hhs.gov
Tel: 240-402-0917

From: Jones, Jennifer L </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0F6CA12EAA9348959A4CBB1E829AF244-JENNIFER.JO>
To: [B6]
CC: Andrea Fascetti
Sent: 8/20/2019 11:44:03 AM
Subject: Question about results

Good morning [B6] and Andrea,
I had two quick general questions about the plasma and urine amino acid results.

[B5]

Thank you in advance,
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>



From: Guag, Jake </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E13AD3C7A7C5484C80E1D9CF9D1A15DE-JGUAG>
To: [REDACTED] B6
Sent: 6/27/2019 4:48:27 PM
Subject: RE: Fw: Heads up: Vet-LIRN (FDA) shipped 800.267-CV-R3 samples

Hi [REDACTED] B6

Thanks. You are correct. I forgot to update the CV-10 samples.

[REDACTED] B6

Could you please provide me when we can expect to get results?

Thanks

From: [REDACTED] B6 <[REDACTED]@ucdavis.edu>
Sent: Thursday, June 27, 2019 12:41 PM
To: [REDACTED] B6 <Guag, Jake <Jake.Guag@fda.hhs.gov>
Subject: Re: Fw: Heads up: Vet-LIRN (FDA) shipped 800.267-CV-R3 samples

Hello Jake-

Attached please find the completed inventory form. The only thing of note is there were 2 vials of cv-10 plasma, otherwise everything was in order.

Kind regards-

[REDACTED] B6

On Thu, Jun 27, 2019 at 9:26 AM [REDACTED] B6 <[REDACTED]@ucdavis.edu> wrote:

Hi [REDACTED] B6

Could you fill their sample inventory forms and email a PDF to Jake?

Thanks,

[REDACTED] B6

From: Guag, Jake <Jake.Guag@fda.hhs.gov>
Sent: Thursday, June 27, 2019 9:21 AM
To: [REDACTED] B6
Subject: RE: Heads up: Vet-LIRN (FDA) shipped 800.267-CV-R3 samples

Hi [REDACTED] B6

Could you please provide me filled out sample inventory forms?

Thanks
Jake

From: [REDACTED] <[REDACTED]@ucdavis.edu>
Sent: Tuesday, June 25, 2019 1:16 PM
To: Guag, Jake <Jake.Guag@fda.hhs.gov>
Cc: Andrea Fascetti <ajfascetti@ucdavis.edu>; [REDACTED] <[REDACTED]@ucdavis.edu>
Subject: Re: Heads up: Vet-LIRN (FDA) shipped 800.267-CV-R3 samples

Hi Jake,

Thanks for the notice. I will Let Dr. Fascetti know your plan. I am not in charge of the billing issues.

Kind Regards,

[REDACTED]

From: Guag, Jake <Jake.Guag@fda.hhs.gov>
Sent: Tuesday, June 25, 2019 9:17 AM
To: [REDACTED]
Cc: Jones, Jennifer L
Subject: Heads up: Vet-LIRN (FDA) shipped 800.267-CV-R3 samples

Hi [REDACTED]

I shipped 800.267 R3 samples on dry ice to your place this morning. R3 Urine samples are in Box#1, and R3 whole blood and plasma samples are in Box #2.

Both boxes will be arrive tomorrow (Jun 26, 2019), and their tracking numbers are [REDACTED] (Box#1) and [REDACTED] (Box#2) with UPS.

Inside you will find sample an inventory sheet in each box. Please fill out and provide to me (Scan or Fax).

[REDACTED]

Thanks
Jake

Jake Guag, MPH, CPH
Biologist (FDA/CVM/OR/Vet-LIRN)
8401 Muirkirk Road
Laurel, Maryland 20708
Email: jake.guag@fda.hhs.gov
Tel: 240-402-0917

From: Andrea Fascetti <ajfascetti@ucdavis.edu>
To: Jones, Jennifer L
Sent: 9/18/2018 12:16:47 PM
Subject: Re: control dog Taurine-urine

Hi Jen - Here is [B6] email address:

[B6]

And Josh:

jstern@ucdavis.edu

I hope this helps.

Andrea

On Sep 18, 2018, at 1:23 PM, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov> wrote:

Good morning Andrea,

I got your message about the collaboration with Joshua Stern and [B6]. We will need to get some documentation first, but otherwise, we'd be happy to share the control urine taurine data. I'm checking to see what agreements we need. Can you please provide [B6] email? After I get the documents, I can send them to the group for signature, and then we can share the data.

Thank you for the collaborative opportunity!

[B6]

Take care,
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>
<image001.png> <image002.png>

From: Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo>
To: Peloquin, Sarah
Sent: 9/18/2018 1:54:55 PM
Subject: FW: control dog Taurine-urine

FYI

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



From: Andrea Fascetti <ajfascetti@ucdavis.edu>
Sent: Tuesday, September 18, 2018 8:17 AM
To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Subject: Re: control dog Taurine-urine

Hi Jen - Here is B6 email address:

B6

And Josh:

jstern@ucdavis.edu

I hope this helps.

Andrea

On Sep 18, 2018, at 1:23 PM, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov> wrote:

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Thank you for the collaborative opportunity!

B6

Take care,
Jen

Jennifer L. A. Jones, DVM

Veterinary Medical Officer
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e-mail: jennifer.jones@fda.hhs.gov
Web: <http://www.fda.gov/AnimalVeterinary/ScienceResearch/ucm247334.htm>
<image001.png> <image002.png>

From: Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo>
To: Peloquin, Sarah
Sent: 9/18/2018 2:12:18 PM
Subject: RE: control dog Taurine-urine

No-this is different. We can chat tomorrow.

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



From: Peloquin, Sarah
Sent: Tuesday, September 18, 2018 10:08 AM
To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Subject: RE: control dog Taurine-urine

Is that the urine that CVCA will be collecting?
How many dogs are in the study so far, with the original requirements?

From: Jones, Jennifer L
Sent: Tuesday, September 18, 2018 9:55 AM
To: Peloquin, Sarah <Sarah.Peloquin@fda.hhs.gov>
Subject: FW: control dog Taurine-urine

FYI

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



From: Andrea Fascetti <ajfascetti@ucdavis.edu>
Sent: Tuesday, September 18, 2018 8:17 AM
To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Subject: Re: control dog Taurine-urine

Hi Jen - Here is B6 email address:

B6 @ucdavis.edu

And Josh:

jstern@ucdavis.edu

I hope this helps.

Andrea

On Sep 18, 2018, at 1:23 PM, Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov> wrote:

Good morning Andrea,

I got your message about the collaboration with Joshua Stern and [B6] We will need to get some documentation first, but otherwise, we'd be happy to share the control urine taurine data. I'm checking to see what agreements we need. Can you please provide [B6] email? After I get the documents, I can send them to the group for signature, and then we can share the data.

Thank you for the collaborative opportunity!

[B6]

Take care,
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

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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>

<image001.png> <image002.png>

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: 10/9/2018 1:48:13 PM
Subject: house mate of EON-366516 (attached) FW: Taste of the Wild (various flavors) since Nov 2013: Lisa Freeman - EON-367899
Attachments: 2055822-report.pdf; Taste of the Wild-Last 1-2 bags (for 2 dogs) before diagnosis were Southwest Canyon flavor-Before that: Lisa Freeman - EON-366516; 2055822-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 <pfpreventcreation@fda.hhs.gov>
Sent: Tuesday, October 09, 2018 9:45 AM
To: Cleary, Michael * <Michael.Cleary@fda.hhs.gov>; HQ Pet Food Report Notification <HQPetFoodReportNotification@fda.hhs.gov>; B6
Subject: Taste of the Wild (various flavors) since Nov 2013: Lisa Freeman - EON-367899

A PFR Report has been received and PFR Event [EON-367899] has been created in the EON System.

A "PDF" report by name "2055822-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 "2055822-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-367899
ICSR #: 2055822
EON Title: PFR Event created for Taste of the Wild (various flavors) since Nov 2013; 2055822

AE Date	10/02/2018	Number Fed/Exposed	2
Best By Date		Number Reacted	2

Animal Species	Dog	Outcome to Date	Stable
Breed	Doberman Pinscher		
Age	B6 years		
District Involved	PFR-New England DO		

Product information

Individual Case Safety Report Number: 2055822

Product Group: Pet Food

Product Name: Taste of the Wild (various flavors) since Nov 2013

Description: Asymptomatic but is housemate of **B6** who was diagnosed with DCM recently (FDA ICSR ID 2055229). Eating same diet until mid-September when switched to Pro Plan Weight Management dry. Note **B6** does not have clear DCM but has reduced contractility. Will recheck in 6 months. Taurine pending - will submit when available.

Submission Type: Initial

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

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

Number of Animals Treated With Product: 2

Number of Animals Reacted With Product: 2

Product Name	Lot Number or ID	Best By Date
Taste of the Wild (various flavors) since Nov 2013		

Sender information

Lisa Freeman
 200 Westboro Rd
 North Grafton, MA 01536
 USA

Owner information

B6

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

B6

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

B6

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

information pursuant to your signed Acceptance of Commission.

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

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-367899

ICSR: 2055822
 Type Of Submission: Initial
 Report Version: FPSR.FDA.PETF.V.V1
 Type Of Report: Adverse Event (a symptom, reaction or disease associated with the product)
 Reporting Type: Voluntary
 Report Submission Date: 2018-10-09 09:33:20 EDT

Reported Problem:
Problem Description: Asymptomatic but is housemate of **B6** who was diagnosed with DCM recently (FDA ICSR ID 2055229). Eating same diet until mid-September when switched to Pro Plan Weight Management dry. Note **B6** does not have clear DCM but has reduced contractility. Will recheck in 6 months. Taurine pending - will submit when available.
Date Problem Started: 10/02/2018
Concurrent Medical Problem: No
Outcome to Date: Stable

Product Information:
Product Name: Taste of the Wild (various flavors) since Nov 2013
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: Dog
Type Of Breed: Doberman Pinscher
Gender: Female
Reproductive Status: Neutered
Weight: 33.4 Kilogram
Age: **B6** Years
Assessment of Prior Health: Excellent
Number of Animals Given the Product: 2
Number of Animals Reacted: 2
Owner Information:
Owner Information provided: Yes
Contact: Name: **B6**
 Phone: **B6**
 Email: **B6**
Address: **B6**
 United States
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	
		Email:	lisa.freeman@tufts.edu	
	Permission To Contact Sender:	Yes		
Preferred Method Of Contact:	Email			
Additional Documents:	Attachment:	B6	medical records combined.pdf	
	Description:	medical records		
	Type:	Medical Records		

From: PFR Event <pfpreventcreation@fda.hhs.gov>
To: Cleary, Michael *; HQ Pet Food Report Notification; B6
Sent: 9/22/2018 10:40:31 PM
Subject: Taste of the Wild-Last 1-2 bags (for 2 dogs) before diagnosis were Southwest Canyon flavor-Before that: Lisa Freeman - EON-366516
Attachments: 2055229-report.pdf; 2055229-attachments.zip

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

A "PDF" report by name "2055229-report.pdf" is attached to this email notification for your reference. Please note that all documents received in the report are compressed into a zip file by name "2055229-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-366516

ICSR #: 2055229

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

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

Product information

Individual Case Safety Report Number: 2055229

Product Group: Pet Food

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

Description: DCM and CHF Probably primary DCM in predisposed breed but given diet history, some possibility of diet-associated DCM Taurine WNL

Submission Type: Initial

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

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

Number of Animals Treated With Product: 2

Number of Animals Reacted With Product: 1

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

Sender information

Lisa Freeman
200 Westboro Rd
North Grafton, MA 01536
USA

Owner information

B6 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.

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

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

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

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

Report Details - EON-366516		
ICSR:	2055229	
Type Of Submission:	Initial	
Report Version:	FPSR.FDA.PETF.V.V1	
Type Of Report:	Adverse Event (a symptom, reaction or disease associated with the product)	
Reporting Type:	Voluntary	
Report Submission Date:	2018-09-22 18:33:37 EDT	
Reported Problem:	Problem Description: DCM and CHF Probably primary DCM in predisposed breed but given diet history, some possibility of diet-associated DCM Taurine WNL	
	Date Problem Started: 09/08/2018	
	Concurrent Medical Problem: No	
	Outcome to Date: Stable	
Product Information:	Product Name: Taste of the Wild Last 1-2 bags (for 2 dogs) before diagnosis were Southwest Canyon flavor Before that, fed 3-4 bags of Pine Forest Before that, had been feeding Pacific Stream for several years	
	Product Type: Pet Food	
	Lot Number:	
	Package Type: BAG	
	Product Use Information: Description: Owner has given consent to have FDA contact her for any additional questions	
	Manufacturer /Distributor Information:	
	Purchase Location Information:	
Animal Information:	Name: B6	
	Type Of Species: Dog	
	Type Of Breed: Doberman Pinscher	
	Gender: Male	
	Reproductive Status: Neutered	
	Weight: 34.2 Kilogram	
	Age: B6 Years	
	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: B6 Phone: Email:
		Address: B6 United States
	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
		Email:	lisa.freeman@tufts.edu
	Permission To Contact Sender:	Yes	
	Preferred Method Of Contact:	Email	
Additional Documents:	Attachment:	discharge 9-20-18.pdf	
	Description:	Discharge 9-20-18	
	Type:	Medical Records	
	Attachment:	bnp.pdf	
	Description:	BNP	
	Type:	Laboratory Report	
	Attachment:	cardio appointment 9-20-18.pdf	
	Description:	Cardio appt 9-20-18	
	Type:	Echocardiogram	
	Attachment:	cardio consult 9-8-18.pdf	
	Description:	cardio consult 9-8-18	
	Type:	Echocardiogram	
	Attachment:	discharge 9-9-18.pdf	
	Description:	Discharge 9-9-18	
	Type:	Medical Records	

Lab Results IDEXX CARDIOPET proBNP 9/10/18

IDEXX Reference Laboratories

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

Client: **B6**
Patient: **B6**
Species: CANINE
Breed: DOBERMAN_PINSCH
Gender: MALE NEUTERED
Age: 8Y

Date: 09/10/2018
Requisition #: 426657
Accession #: **B6**
Ordered by: **B6**

IDEXX VetConnect 1-888-433-9967
TUFTS UNIVERSITY
200 WESTBORO RD
NORTH GRAFTON, Massachusetts 01536-1828
508-839-5395
Account #80735

CARDIOPET proBNP - CANINE

Test	Result	Reference Range	Low	Normal	High
CARDIOPET proBNP - CANINE	B6	0 - 900 pmol/L	HIGH		

Comments:

1

B6

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

Cummings Veterinary Medical Center

AT TUFTS UNIVERSITY

Cardiology Liaison: 508-887-4696

B6

Patient ID: S200403

B6

Canine

Years Old Male (Neutered) Doberman

Pinscher

Black/Tan

Cardiology Appointment Report

Date: 9/20/2018

Attending Cardiologist:

John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC

B6

Cardiology Resident:

B6

Cardiology Technician:

B6

CVT, VTS (Cardiology)

Student:

B6

V19

Presenting Complaint:

Recheck of DCM with active CHF

General Medical History:

Has been his normal self, went on one 20 min walk since he was last here and had no trouble at all.

PU/PD (due to lasix)

Diet and Supplements:

Fromm Mature: 4 cups a day

Cardiovascular History:

Prior CHF diagnosis? Yes

Prior heart murmur? Yes, grade III/VI

Prior ATE?, N

Prior arrhythmia? Y, VPCs

Monitoring respiratory rate and effort at home? N, but havent noticed any labored breathing

Cough? N

Shortness of breath or difficulty breathing? N

Syncope or collapse? N

Sudden onset lameness? N

Exercise intolerance? N

Current Medications Pertinent to CV System:

Medication: B6

B6

Medication: B6

B6

Medication: B6

B6

Medication: B6

Can we call their pharmacy with a script for this?

Cardiac Physical Examination:

General PE:

MM Color and CRT:

BCS (1-9):

BW (kg): 34.2 Kg

Heart rate:

Respiratory rate:

Temp (if possible):

Muscle condition:

- Normal
- Mild muscle loss

- Moderate cachexia
- Marked cachexia

Cardiovascular Physical Exam:

Murmur Grade:

- None
- I/VI
- II/VI
- III/VI
- IV/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 the neck
- Top 2/3 of the neck

Arterial pulses:

- Weak
- Fair
- Good
- Strong
- Bounding
- Pulse deficits
- Pulsus paradoxus
- Other:

Arrhythmia:

- None
- Sinus arrhythmia
- Premature beats
- Bradycardia
- Tachycardia

Gallop:

- Yes
- No
- Intermittent

- Pronounced
- Other:

Pulmonary assessments:

- Eupneic
- Mild dyspnea
- Marked dyspnea
- Normal BV sounds
- Pulmonary crackles
- Wheezes
- Upper airway stridor

Abdominal exam:

- Normal
- Hepatomegaly
- Abdominal distension
- Mild ascites
- Marked ascites

Problems:

Differential Diagnoses:

Diagnostic plan:

- Echocardiogram
- Chemistry profile
- ECG
- Renal profile
- Blood pressure
- Dialysis profile
- Thoracic radiographs
- NT-proBNP
- Troponin I
- Other tests:

Assessment and recommendations:

Final Diagnosis:

Heart Failure Classification Score:

ISACHC Classification:

- Ia
- Ib
- II
- IIIa
- IIIb

ACVIM Classification:

- A
- B1
- B2
- C
- D

Cummings Veterinary Medical Center

AT TUFTS UNIVERSITY
Cardiology Liaison: 508-887-4696

B6

Patient ID: S200408

B6 Canine
Years Old Male (Neutered)

Doberman Pinscher

Black/Tan BW: Weight (kg) 32.00

Cardiology Consultation

Date: 9/8/2018

Weight: Weight (kg) 32.00

Requesting Clinician: **B6** DVM (Resident - Emergency & Critical Care)

Attending Cardiologist:

John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC

B6

Cardiology Resident:

B6

Thoracic radiographs available for review?

- Yes - in SS
 Yes - in PACS
 No

Patient location: ER

Presenting complaint and important concurrent diseases: 8 y.o doberman presenting for acute onset soft cough after exercise and at rest, worse at night. Owners report coughing episodes have been getting more frequent over the past 3 days. Grade IV/VI right sided systolic murmur ausculted on exam. Had scheduled appointment to be seen with cardiology 9/20/18 based on arrhythmia heard at rDVM.

STOP - remainder of form to be filled out by Cardiology

Physical Examination

Heart rate: 120

Respiratory rate: 28

MM Color and CRT: pk, <2

BCS (1-9): 4

Muscle condition:

- Normal
 Mild muscle loss
 Moderate cachexia
 Marked cachexia

Cardiovascular Physical Exam

Murmur Grade:

- None
 I/VI
 IV/VI
 V/VI

- II/VI
- III/VI

- VI/VI

Murmur location/description: systolic right apical

Jugular vein:

- Bottom 1/3 of the neck
- Middle 1/3 of the neck
- Top 2/3 of the neck
- 1/2 way up the neck

Arterial pulses:

- Weak
- Fair
- Good
- Strong
- Bounding
- Pulse deficits
- Pulsus paradoxus
- Other (describe):

Arrhythmia:

- None
- Sinus arrhythmia
- Premature beats
- Bradycardia
- Tachycardia

Gallop:

- Yes
- No
- Intermittent
- Pronounced
- Other:

Pulmonary assessments:

- Eupneic
- Mild dyspnea
- Marked dyspnea
- Normal BV sounds
- Pulmonary Crackles
- Wheezes
- Upper airway stridor
- Other auscultatory findings:

Abdominal exam:

- Normal
- Hepatomegaly
- Abdominal distension
- Mild ascites

B6

Mitral inflow:

- Summated
- Normal
- Delayed relaxation
- Pseudonormal
- Restrictive

B6

Assessment and recommendations: Findings consistent with DCM and active congestive heart failure. Simpson and sphericity index revealed advanced LV dilation and enlarged LA are consistent with advanced DCM. B6

B6

Treatment plan:

B6

Final Diagnosis:

L-CHF secondary to DCM

Addendum:

9/9/18 - Patient did well overnight, rare episodes of cough and respiratory rate stayed stable

B6

Heart Failure Classification Score:

ISACHC Classification:

- | | |
|--|-------------------------------|
| <input type="checkbox"/> Ia | <input type="checkbox"/> IIIa |
| <input type="checkbox"/> Ib | <input type="checkbox"/> IIIb |
| <input checked="" type="checkbox"/> II | |

ACVIM CHF Classification:

- | | |
|-----------------------------|---------------------------------------|
| <input type="checkbox"/> A | <input checked="" type="checkbox"/> C |
| <input type="checkbox"/> B1 | <input type="checkbox"/> D |
| <input type="checkbox"/> B2 | |

Cummings

Veterinary Medical Center

AT TUFTS UNIVERSITY

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

Emergency & Critical Care Liaison: (508) 887-4745

Patient

Name:

B6

Signalment:

B6 Years Old Black/Tan Male
(Neutered) Doberman Pinscher

Owner

Name:

Address:

B6

Patient ID:

S200403

Emergency Clinician:

B6

DVM (Intern)

Consulting Clinician:

ER Summary:

B6

Discharge Instructions

Admit Date: 9/8/2018 10:52:58 AM

Check Out Date: 9/8/2018

Case Summary

Diagnosis:

1. Dilated cardiomyopathy with active congestive heart failure.

Case Summary:

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

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

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

Patient Care Instructions:

1. **Exercise restrictions:** Do not allow B6 to overexert himself. He may still go for short walks and play with his sister but avoid strenuous activity like hiking or chasing squirrels which may overexert his heart.

2. **Diet:** We recommend to discontinue the grain free diet - a sheet that has suggestions for diet and low sodium treats can be found on the HeartSmart web site (<http://vet.tufts.edu/heartsmart/diet/>). We recommend as dry options:

- Royal Canin Early Cardiac;
- Royal Canin Boxer;
- Purina ProPlan Adult Weight Management.

Medications:

Recommended Medications:

B6

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

Thank you for entrusting us with B6 care. Please contact our Cardiology liaison at (508)-887-4696 or email us at cardiovet@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 Disclaimer:

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

Ordering Food:

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

Clinical Trials:

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

Case:

Owner:

Discharge Instructions

Discharge Instructions

Patient

Name: B6
Species: Canine
Black/Tan Male (Neutered) Doberman
Pinscher
Birthdate: B6

Owner

Name: B6
Address: B6

Patient ID: S200403

Attending Cardiologist:

John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC

B6

Cardiology Resident:

B6

Cardiology Technician:

B6

TS (Cardiology)

Student: B6 V19

Admit Date: B6 1:05:31 PM

Discharge Date: B6

Diagnoses:

1. Dilated cardiomyopathy (DCM)— stable
2. Congestive heart failure— resolved

Case summary:

Thank you for bringing in B6 for his recheck appointment with us today. He is such a sweet boy! We are so happy to hear he has been doing so well on his medications and has not had any coughing, difficulty breathing, or exercise intolerance. We are so glad B6 is responding so well to his medications and is feeling so comfortable.

Today we performed a recheck quick ultrasound of his heart, an ECG to recheck his ventricular arrhythmias, and took some blood to recheck his kidney values since being on the B6 for 10 days. His heart seems to be contracting a little stronger than it was previously. His left ventricle was still dilated, but his left atrium was smaller today since his last visit, which means he is improving on his current medications. He did not have any arrhythmias when we performed his ECG today. The blood work results are normal and we would like to continue him on his current medication doses (see list below), and also continue exercise restricting him to only leash walks.

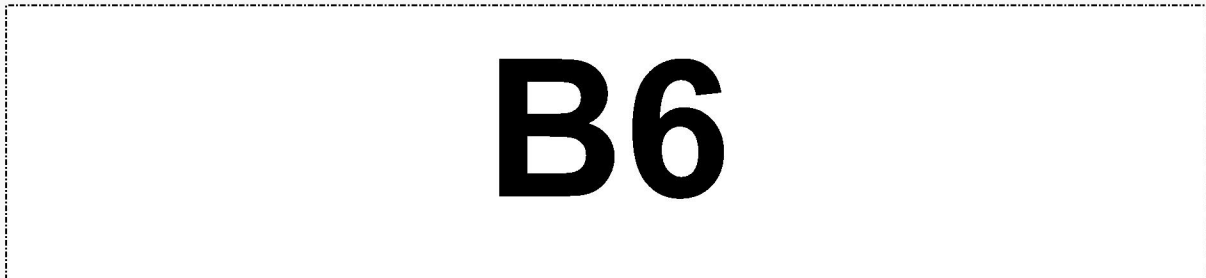
Monitoring at home:

- o We would like you to monitor B6 breathing rate and effort at home, ideally during sleep or at a time of rest. The doses of drugs will be adjusted based on the breathing rate and effort.
- o In general, most dogs with heart failure that is well controlled have a breathing rate at rest of less than 35 breaths per minute. In addition, the breathing effort, noted by the amount of belly wall motion used for each breath, is

fairly minimal if heart failure is controlled.

- An increase in breathing rate or effort will usually mean that you should give an extra dose of **B6** if difficulty breathing is not improved by within 60-90 minutes after giving extra furosemide then we recommend that a recheck exam be scheduled and/or that your dog be evaluated by an emergency clinic.
- There are instructions for monitoring breathing, and a form to help keep track of breathing rate and drug doses, on the Tufts HeartSmart web site (<http://vet.tufts.edu/heartsmart/at-home-monitoring/>).
- We also want you to watch for weakness or collapse, a reduction in appetite, worsening cough, or distention of the belly as these findings indicate that we should do a recheck examination.
- If you have any concerns, please call or have your dog evaluated by a veterinarian. Our emergency clinic is open 24 hours/day.

Recommended Medications:



Diet suggestions:

We suggest **B6** to be in one of the diets we recommended (see list). Many pet treats, people foods, and supplements used to give pills often have more sodium than is desirable - a sheet that has suggestions for low sodium treats can be found on the HeartSmart web site (<http://vet.tufts.edu/heartsmart/diet/>)

Exercise Recommendations:

Leash walking only is ideal, and short walks to start. Once the heart failure is better controlled, then slightly longer walks are acceptable. However, if you find that **B6** is lagging behind or needs to stop on a walk then this was too long a walk and shorter walks are advised in the future. Repetitive or strenuous high energy activities (repetitive ball chasing, running fast off-leash, etc.) are generally not advised at this stage of heart failure.

Recheck Visits:

A recheck echocardiogram for **B6** is recommended in 3-4 months.
B6 as an appointment with us on October 2nd at 4 pm.)

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

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

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Clinical Trials:

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

Case **B6**

Owner **B6**

Discharge Instructions

All Medical Records

Client: **B6**
Address: **B6**

Patient: **B6**
Breed: Doberman Pinscher
DOB: **B6**

Species: Canine
Sex: Female
(Spayed)

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

Referring Information

B6

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

Initial Complaint:

intestinal foreign material, vomiting

SOAP Text Mar 8 2015 7:14AM B6

3/8/2015 7:33:38 AM NEW VISIT (ER)

Doctor: **B6**

Presenting complaint: vomit x 10 this AM

B6

Objective (O)

B6

Client: **B6**
Patient:

B6

Diagnostics Completed:

AXR (2 view): foreign material (midabdomen on lateral, overlapping L3 on VD), no obstructive pattern, stomach is not distended

NOVA:

PCV/TS:

Assessment (A)

A1: GI foreign object - r/o unobstructive v obstructive

A2: **B6**

Plan (P)

P1: **B6**
P2:
P3:
P4:
P5:
P6:

Communication Summary: Discussed presence of foreign object in intestines. Hopefully this can move along with hydration. **B6**

B6

Additional requests submitted: none

Estimate given: \$ **B6**

3/8/2015 8:52:32 AM

Prescribed: **B6**
Instructions:

3/8/2015 8:52:50 AM

Prescribed: **B6**
Instructions:

TS (FHSA): 6.8

PCV **: 54

SOAP Text Mar 8 2015 10:01AM **B6**

3/8/2015 **B6**, DVM

Presenting complaint: vomit x 10 this AM

B6

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

Visit is a referral: No

B6

Diagnostics Completed:

B6

Assessment (A)

A1: **B6**
A2: **B6**

Plan (P)

P1: **B6**
P2: **B6**
P3: **B6**
P4: **B6**
P5: **B6**
P6: **B6**
P7: **B6**

B6

Prescribed - **B6**
Instructions: **B6**

Prescribed - **B6**
Instructions: **B6**

BW 31 kg, AR5 - Expires: 3/8/2016 6 Refills

SOAP Text Mar 9 2015 1:13PM - **B6**

2 yo SF Doberman Pinscher was presented early yesterday morning Sunday 03/08/2015 for severe acute vomiting.

Vomitted once overnight and given **B6** no vomiting since. Urinating well; no defecation yet. Still NPO.

B6

Client:
Patient:

B6

B6

B6

SOAP Text Mar 10 2015 1:55PM

B6

2 yo SF Dobberman Pinscher was presented Sunday 03/08/2015 for severe acute vomiting. Vomited once since admit. Started refeeding last night and has been eating ravenously.

S/O: overall unchanged with no significant findings.

B6

B6

Initial Complaint:

Emergency

Client: **B6**

Patient: **B6**

SOAP Text Sep 21 2015 5:20PM **B6**

9/21/2015 5:20:18 PM NEW VISIT (ER)

Doctor: **B6**

Student:

Presenting complaint: Left carpal pad laceration

B6

Objective (O)

B6

Client: **B6**
Patient:

Assessment (A)

- A1: Carpal pad lacerations
- A2: Hx of HBC
- A3: Hx of fever of unknown origin
- A4: Hx of intestinal FB

Plan (P)

- 1.
- 2.
- 3.
- 4.

B6

Communication Summary:

B6

Estimate given: \$

Deposit collected: \$

9/21/2015 7:06:22 PM

Prescribed
Instructions:

B6

Initial Complaint:

New **B6** - DCM protocol

Disposition/Recommendations

Client:

B6

Patient:

Client: **B6**
 Patient:

Cummings
Veterinary Medical Center
 AT TUFTS UNIVERSITY

Foster Hospital for Small Animals

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

Client: **B6**
 Veterinarian:
 Patient ID: 314074
 Visit ID:

Patient:	B6
Species:	Canine
Breed:	Doberman Pinscher
Sex:	Female (Spayed)
Age:	B6 Years Old

Lab Results Report

Nova Full Panel-ICU **3/8/2015 8:55:00 AM** **Accession ID: B6**

Test	Results	Reference Range	Units
nCA	B6	0 - 0	mmol/L
FiO2		0 - 0	%
BEb		0 - 0	mmol/L
TCO2 (POC)		0 - 0	mmol/L
GAP		0 - 0	mmol/L
BEecf		0 - 0	mmol/L
CREAT (POC)		0.2 - 2.1	mg/dL
NOVA SAMPLE		0 - 0	
MG (POC)		0.1 - 0.4	mmol/L
CA/MG		0 - 0	mol/mol
HCT (POC)		38 - 48	%
LACTATE		0 - 2	mmol/L
BUN (POC)		12 - 28	mg/dL
SO2%		94 - 100	%
nMG		0 - 0	mmol/L
CL(POC)		109 - 120	mmol/L
GLUCOSE (POC)		80 - 120	mg/dL
K (POC)		3.6 - 4.8	mmol/L
CA (ionized)		1.17 - 1.38	mmol/L
HB (POC)		12.6 - 16	g/dL
A	0 - 0	mmHg	



8/22

B6

Printed Tuesday, October 09, 2018

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

NA (POC)	B6	140 - 154	mmol/L
PO2		80 - 100	mmHg
PCO2		36 - 44	mmHg
PH		7.337 - 7.467	
PCO2		36 - 44	mmHg
PO2		80 - 100	mmHg
HCO3		18 - 24	mmol/L

Nova Full Panel-ICU **3/8/2015 9:01:30 AM** **Accession ID: B6**

Test	Results	Reference Range	Units
TS (FHSA)	B6	0 - 0	g/dl
PCV **		0 - 0	%
TS (FHSA)		0 - 0	g/dl

Nova Full Panel-ICU **3/9/2015 9:50:00 AM** **Accession ID: B6**

Test	Results	Reference Range	Units
MCH(ADVIA)	B6	21.3 - 25.9	pg
MCHC(ADVIA)		31.9 - 34.3	g/dL
WBC (ADVIA)		4.4 - 15.1	K/uL
MCV(ADVIA)		64.5 - 77.5	fL
MPV (ADVIA)		8.29 - 13.2	fl
RDW (ADVIA)		11.9 - 15.2	
HCT(ADVIA)		39 - 55	%
PLT(ADVIA)		173 - 486	K/uL
RBC(ADVIA)		5.8 - 8.5	M/uL
HGB(ADVIA)		13.3 - 20.5	g/dL

Nova Full Panel-ICU **3/9/2015 9:50:00 AM** **Accession ID: B6**

Test	Results	Reference Range	Units
CALCIUM2	B6	9.4 - 11.3	mg/dL
D.BILIRUBIN		0 - 0.1	mg/dL
T BILIRUBIN		0.1 - 0.3	mg/dL
NA/K		29 - 40	
SODIUM		140 - 150	mEq/L
CREATININE		0.6 - 2	mg/dL
ALK PHOS		12 - 127	U/L
GLOBULINS		2.3 - 4.2	g/dL
T. PROTEIN		5.5 - 7.8	g/dL
PHOSPHORUS		2.6 - 7.2	mg/dL
I BILIRUBIN		0 - 0.2	mg/dL
ALT		14 - 86	U/L
OSMOLALITY (CALCULATED)		291 - 315	mmol/L
CHLORIDE		106 - 116	mEq/L



Client: **B6**
Patient:

AST		9 - 54	U/L
UREA		8 - 30	mg/dL
POTASSIUM		3.7 - 5.4	mEq/L
CHOLESTEROL	B6	82 - 355	mg/dL
GLUCOSE		67 - 135	mg/dL
ALBUMIN		2.8 - 4	g/dL
A/G RATIO		0.7 - 1.6	

Nova Full Panel-ICU **3/9/2015 9:50:00 AM** **Accession ID: B6**

Test	Results	Reference Range	Units
EOS%		0 - 16	%
RBC MORPHOLOGY		0 - 0	
No morphologic abnormalities			
SEGS%		43 - 86	%
LYMPHS (ABS)ADVIA		1 - 4.8	K/uL
MONOS (ABS)ADVIA	B6	0.1 - 1.5	K/uL
SEGS (AB)ADVIA		2.8 - 11.5	K/uL
EOS (ABS)ADVIA		0 - 1.4	K/uL
LYMPHS%		7 - 47	%
MONOS%		1 - 15	%
WBC MORPHOLOGY		0 - 0	
No Morphologic Abnormalities			

Nova Full Panel-ICU **3/9/2015 9:50:00 AM** **Accession ID: B6**

Test	Results	Reference Range	Units
VWF:AG	B6	0 - 0	%

Nova Full Panel-ICU **3/9/2015 10:22:42 AM** **Accession ID: B6**

Test	Results	Reference Range	Units
TS (FHSA)		0 - 0	g/dl
PCV **	B6	0 - 0	%
TS (FHSA)		0 - 0	g/dl



10/22

B6

Printed Tuesday, October 09, 2018

Client: **B6**
Patient:

Emergency Form: PACS



TUFTS UNIVERSITY
Foster Hospital for Small Animals
Hospital for Large Animals
200 Westboro Road,
N. Grafton, MA 01536

EMERGENCY SERVICES

This form must be submitted to accounting within 24 hours of overtime incurred for treatment of emergency cases to ensure timely entry on bill. Emergency fees will be assessed for services rendered. This form must be completed in full or it will not be accepted.

Doctor or Technician name: **B6**, **DVM**
Client name: **B6** Animal name: **B6**
Date of services: **8 Mar 2015** Case #: ~~306953~~ **314074** Client #:

TECHNICIAN

- S1X2 Surgery A1X2 Anesthesia
- M8X2 Ophthalmology M1D9 Intensive Care
- R1X2 Radiology

Procedure: _____
Overtime hours incurred: _____
Time paged/called: _____
Arrived: _____
Start surgery/procedure: _____
End surgery/procedure: _____
Left building: _____

CLINICIAN

- SAH**
- Surgery Anesthesia
- S1X3 Surgeon A1X3 Anesthesiologist
- S1X3 Resident A1X3 Resident

- LAH**
- Surgery Anesthesia
- S1X5 Surgeon A1X6 Anesthesiologist <4hrs
- S1XA Surgeon w/sx <4hrs A1X7 Anesthesiologist >4hrs
- S1XB Surgeon w/sx >4hrs A1X3 Resident
- S1X3 Resident

- LAH & SAH**
- Medicine Pathology
- M1X1 Resident P1X1 Pathologist
- M1X4 Clinician < 4 hrs P1X1 Resident
- M1X5 Clinician > 4 hrs G1X1 Ambulatory

RADIOLOGY Equine Farm Small

- R1X5 ER Radiologist: _____
- R1X1 ER Resident: _____
- R1X3 Celiogram: _____
- R1X4 Cysto/Urethrogram: _____
- R1X6 Myelogram: _____
- R1X7 Ultrasound: _____
- R1X8 Intrav/Urogram (IVU): _____

Ophthalmology Equine Farm Small

- M8X4 Ophthalmologist 1 hr: _____
- M8X5 Ophthalmologist 2 hrs: _____
- M8X6 Ophthalmologist 3 hrs: _____
- M8X7 Ophthalmologist 4 hrs: _____

R1X8 Radiologist (PACS)

B6

B6

Supervisor Signature

Print Name

Form #250-C (Rev. 12-11-12)

WHITE-Accounting

YELLOW-Payroll

PINK-Employee

Client:
Patient:

B6

Diet history 10-2-18

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

Pet's name **B6** Owner's name **B6** Today's date 10/2/18

1. How would you assess your pet's appetite? (mark the point on the line below that best represents your pet's appetite)
Example: Poor _____ Excellent:
Poor _____ | _____ Excellent:

2. Have you noticed a change in your pet's appetite over the last 1-2 weeks? (check all that apply)
 Eats about the same amount as usual Eats less than usual Eats more than usual
 Seems to prefer different foods than usual Other: _____

3. Over the last few weeks, has your pet (check one):
 Lost weight Gained weight Stayed about the same weight Don't know

4. Please list below ALL pet foods, people food, treats, snack, dental 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 your pet is eating.

Food (include specific product and flavor) Form Amount How often? Fed since
Examples are shown in the table - please provide enough detail that we could go to 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 cups	2x/day	Jan. 2015
85% lean hamburger	microwaved	3 oz	1x/week	Jan. 2015
Pepperoni original beef flavor	treat	1/2	1x/day	Aug 2015
Rawhide	treat	6 inch twist	1x/week	Dec 2015
Taste of the Wild	dry	1 cup	3x/day	Nov 2013
Purina Pro weight manage	dry	1 cup	3x/day	Sep 2018
various veggies (fresh)	treat		daily	Nov 2013
K9 Granola Factory	treat	5-10	daily	Nov 2013
Raw marrow Bones	treat	1	1x/week	2015

*Any additional diet information can be listed on the back of this sheet:

5. Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any other supplements)? Yes No If yes, please list which ones and give brands and amounts

	Brand/Concentration	Amount per day
Taurine	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____
Carnitine	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____
Antioxidants	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____
Multivitamin	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____
Fish oil	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____
Coenzyme Q10	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____
Other (please list): Example: Vitamin C	Nature's Bounty	500 mg tablets - 1 per day
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

6. How do you administer pills to your pet?
 I do not give any medications
 I put them directly in my pet's mouth without food
 I put them in my pet's dog/cat food
 I put them in a Pill Pocket or similar product
 I put them in foods (list foods): _____

Client: **B6**
Patient:

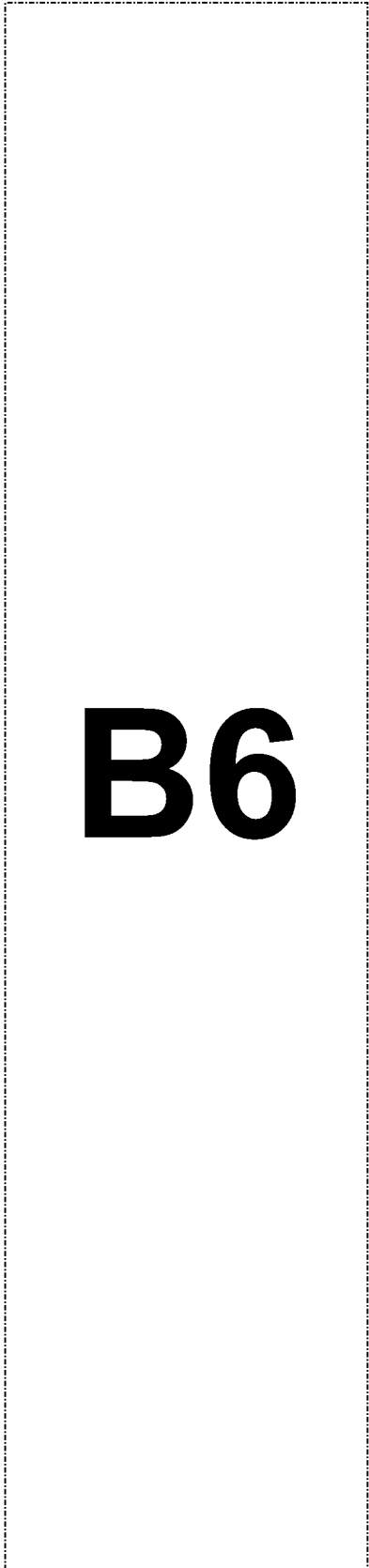
Vitals Results

3/8/2015 7:00:15 AM Nursing note
3/8/2015 8:04:09 AM Temperature (F)
3/8/2015 8:04:41 AM Heart Rate (/min)
3/8/2015 8:04:59 AM Respiratory Rate
3/8/2015 8:05:10 AM Weight (kg)
3/8/2015 9:01:51 AM Notes
3/8/2015 9:02:21 AM Quantify IV fluids (mls)
3/8/2015 9:05:28 AM Eliminations
3/8/2015 9:08:07 AM Respiratory Rate
3/8/2015 9:08:24 AM Heart Rate (/min)
3/8/2015 1:14:46 PM Respiratory Rate
3/8/2015 1:14:56 PM Quantify IV fluids (mls)
3/8/2015 1:15:08 PM Eliminations
3/8/2015 3:03:56 PM Heart Rate (/min)
3/8/2015 5:10:06 PM Quantify IV fluids (mls)
3/8/2015 5:10:59 PM Respiratory Rate
3/8/2015 5:16:36 PM Eliminations
3/8/2015 7:53:39 PM Temperature (F)
3/8/2015 9:14:21 PM Quantify IV fluids (mls)
3/8/2015 9:26:23 PM Eliminations

3/8/2015 9:28:24 PM Nursing note

3/8/2015 9:34:23 PM Respiratory Rate
3/8/2015 9:34:35 PM Heart Rate (/min)
3/8/2015 11:25:05 PM Cage or Walk notes
3/9/2015 12:41:08 AM Cage or Walk notes
3/9/2015 1:21:29 AM Quantify IV fluids (mls)
3/9/2015 1:21:47 AM Eliminations
3/9/2015 1:22:15 AM Cage or Walk notes

3/9/2015 1:24:43 AM Respiratory Rate
3/9/2015 4:31:18 AM Heart Rate (/min)
3/9/2015 5:42:34 AM Respiratory Rate
3/9/2015 5:51:30 AM Quantify IV fluids (mls)
3/9/2015 5:51:40 AM Eliminations
3/9/2015 8:26:27 AM Eliminations
3/9/2015 11:56:11 AM Temperature (F)
3/9/2015 11:56:23 AM Heart Rate (/min)
3/9/2015 11:56:50 AM Quantify IV fluids (mls)
3/9/2015 11:57:02 AM Respiratory Rate



Client: **B6**
Patient:

Vitals Results

3/9/2015 1:27:57 PM	Eliminations
3/9/2015 3:32:11 PM	Quantify IV fluids (mls)
3/9/2015 3:35:18 PM	Respiratory Rate
3/9/2015 3:35:30 PM	Heart Rate (/min)
3/9/2015 3:37:40 PM	Temperature (F)
3/9/2015 5:27:01 PM	Eliminations
3/9/2015 7:04:35 PM	Eliminations
3/9/2015 7:07:59 PM	Weight (kg)
3/9/2015 7:08:08 PM	Temperature (F)
3/9/2015 7:08:44 PM	Quantify IV fluids (mls)
3/9/2015 7:14:28 PM	Heart Rate (/min)
3/9/2015 7:14:36 PM	Respiratory Rate
3/9/2015 9:09:44 PM	Amount eaten
3/9/2015 11:42:29 PM	Heart Rate (/min)
3/9/2015 11:42:36 PM	Respiratory Rate
3/9/2015 11:42:45 PM	Eliminations
3/9/2015 11:43:13 PM	Quantify IV fluids (mls)
3/10/2015 3:38:41 AM	Quantify IV fluids (mls)
3/10/2015 3:43:03 AM	Heart Rate (/min)
3/10/2015 3:43:09 AM	Respiratory Rate
3/10/2015 3:43:19 AM	Eliminations
3/10/2015 5:09:16 AM	Amount eaten
3/10/2015 7:01:03 AM	Heart Rate (/min)
3/10/2015 7:01:09 AM	Weight (kg)
3/10/2015 7:01:19 AM	Respiratory Rate
3/10/2015 7:01:25 AM	Temperature (F)
3/10/2015 7:01:36 AM	Eliminations
3/10/2015 7:02:01 AM	Quantify IV fluids (mls)
3/10/2015 11:38:03 AM	Heart Rate (/min)
3/10/2015 11:39:59 AM	Respiratory Rate
3/10/2015 11:40:05 AM	Quantify IV fluids (mls)
3/10/2015 11:40:13 AM	Eliminations
3/10/2015 1:43:47 PM	Amount eaten
9/21/2015 5:20:19 PM	Heart Rate (/min)
9/21/2015 5:20:20 PM	Temperature (F)
9/21/2015 5:20:21 PM	Respiratory Rate
9/21/2015 5:20:22 PM	Weight (kg)
10/2/2018 3:58:13 PM	Weight (kg)

B6

Client:
Patient:

B6

Patient History

03/08/2015 06:47 AM	Purchase
03/08/2015 07:00 AM	Vitals
03/08/2015 07:51 AM	UserForm
03/08/2015 07:54 AM	Treatment
03/08/2015 07:54 AM	Purchase
03/08/2015 08:03 AM	UserForm
03/08/2015 08:04 AM	Treatment
03/08/2015 08:04 AM	Vitals
03/08/2015 08:04 AM	Vitals
03/08/2015 08:04 AM	Vitals
03/08/2015 08:05 AM	Vitals
03/08/2015 08:08 AM	UserForm
03/08/2015 08:10 AM	Purchase
03/08/2015 08:55 AM	Purchase
03/08/2015 08:59 AM	Purchase
03/08/2015 08:59 AM	Purchase
03/08/2015 09:01 AM	Labwork
03/08/2015 09:01 AM	Vitals
03/08/2015 09:02 AM	Treatment
03/08/2015 09:02 AM	Treatment
03/08/2015 09:02 AM	Vitals
03/08/2015 09:05 AM	Purchase
03/08/2015 09:05 AM	Purchase
03/08/2015 09:05 AM	Treatment
03/08/2015 09:05 AM	Vitals
03/08/2015 09:07 AM	Prescription
03/08/2015 09:08 AM	Treatment
03/08/2015 09:08 AM	Treatment
03/08/2015 09:08 AM	Vitals
03/08/2015 09:08 AM	Purchase
03/08/2015 09:08 AM	Treatment
03/08/2015 09:08 AM	Vitals
03/08/2015 09:09 AM	Prescription
03/08/2015 09:18 AM	Treatment
03/08/2015 09:50 AM	Purchase
03/08/2015 09:51 AM	Purchase
03/08/2015 01:07 PM	Treatment
03/08/2015 01:07 PM	Treatment
03/08/2015 01:14 PM	Treatment
03/08/2015 01:14 PM	Vitals
03/08/2015 01:14 PM	Treatment
03/08/2015 01:14 PM	Vitals
03/08/2015 01:15 PM	Treatment
03/08/2015 01:15 PM	Vitals

B6

Client: **B6**
Patient:

Patient History

03/08/2015 03:03 PM Treatment
03/08/2015 03:03 PM Vitals
03/08/2015 05:10 PM Treatment
03/08/2015 05:10 PM Vitals
03/08/2015 05:10 PM Treatment
03/08/2015 05:10 PM Vitals
03/08/2015 05:11 PM Treatment
03/08/2015 05:16 PM Treatment
03/08/2015 05:16 PM Treatment
03/08/2015 05:16 PM Vitals
03/08/2015 07:53 PM Treatment
03/08/2015 07:53 PM Vitals
03/08/2015 09:13 PM Purchase

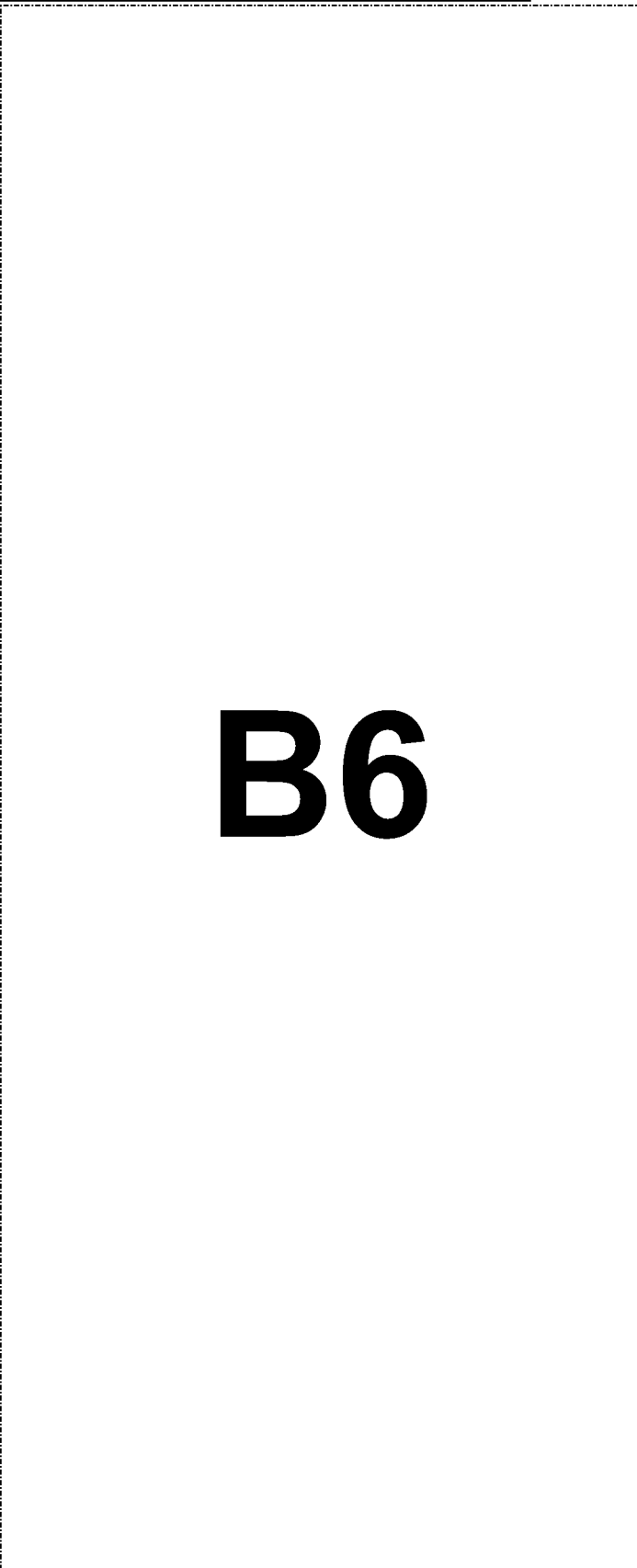
03/08/2015 09:14 PM Treatment
03/08/2015 09:14 PM Vitals
03/08/2015 09:26 PM Treatment
03/08/2015 09:26 PM Treatment
03/08/2015 09:26 PM Treatment
03/08/2015 09:26 PM Vitals

03/08/2015 09:28 PM Vitals

03/08/2015 09:34 PM Treatment
03/08/2015 09:34 PM Vitals
03/08/2015 09:34 PM Treatment
03/08/2015 09:34 PM Vitals
03/08/2015 11:25 PM Vitals
03/09/2015 12:41 AM Vitals
03/09/2015 01:21 AM Treatment
03/09/2015 01:21 AM Vitals
03/09/2015 01:21 AM Treatment
03/09/2015 01:21 AM Vitals
03/09/2015 01:22 AM Treatment
03/09/2015 01:22 AM Treatment
03/09/2015 01:22 AM Vitals

03/09/2015 01:24 AM Treatment
03/09/2015 01:24 AM Vitals
03/09/2015 01:33 AM Treatment
03/09/2015 01:36 AM Treatment
03/09/2015 01:39 AM Treatment

03/09/2015 04:31 AM Treatment
03/09/2015 04:31 AM Vitals
03/09/2015 05:39 AM Treatment
03/09/2015 05:39 AM Treatment
03/09/2015 05:42 AM Treatment
03/09/2015 05:42 AM Vitals
03/09/2015 05:51 AM Treatment



Client: **B6**
Patient:

Patient History

03/09/2015 05:51 AM	Vitals
03/09/2015 05:51 AM	Treatment
03/09/2015 05:51 AM	Vitals
03/09/2015 08:26 AM	Vitals
03/09/2015 09:10 AM	UserForm
03/09/2015 09:11 AM	Purchase
03/09/2015 09:11 AM	Purchase
03/09/2015 09:42 AM	Purchase
03/09/2015 09:44 AM	Treatment
03/09/2015 09:49 AM	Purchase
03/09/2015 09:49 AM	Purchase
03/09/2015 09:49 AM	Purchase
03/09/2015 10:22 AM	Labwork
03/09/2015 10:22 AM	Treatment
03/09/2015 10:39 AM	Prescription
03/09/2015 10:39 AM	Prescription
03/09/2015 10:40 AM	Purchase
03/09/2015 10:49 AM	Purchase
03/09/2015 11:40 AM	Treatment
03/09/2015 11:55 AM	Treatment
03/09/2015 11:56 AM	Treatment
03/09/2015 11:56 AM	Treatment
03/09/2015 11:56 AM	Treatment
03/09/2015 11:56 AM	Treatment
03/09/2015 11:56 AM	Treatment
03/09/2015 11:56 AM	Vitals
03/09/2015 11:56 AM	Treatment
03/09/2015 11:56 AM	Vitals
03/09/2015 11:57 AM	Treatment
03/09/2015 11:57 AM	Vitals
03/09/2015 01:27 PM	Treatment
03/09/2015 01:27 PM	Vitals
03/09/2015 02:06 PM	Purchase
03/09/2015 03:32 PM	Treatment
03/09/2015 03:32 PM	Vitals
03/09/2015 03:34 PM	Treatment
03/09/2015 03:35 PM	Treatment
03/09/2015 03:35 PM	Vitals
03/09/2015 03:35 PM	Treatment
03/09/2015 03:35 PM	Vitals
03/09/2015 03:37 PM	Vitals

B6

Client: **B6**
Patient:

Patient History

03/09/2015 04:47 PM	UserForm
03/09/2015 05:27 PM	Treatment
03/09/2015 05:27 PM	Vitals
03/09/2015 06:52 PM	Prescription
03/09/2015 06:53 PM	Prescription
03/09/2015 07:04 PM	Treatment
03/09/2015 07:04 PM	Vitals
03/09/2015 07:04 PM	Treatment
03/09/2015 07:07 PM	Treatment
03/09/2015 07:07 PM	Vitals
03/09/2015 07:08 PM	Treatment
03/09/2015 07:08 PM	Vitals
03/09/2015 07:08 PM	Treatment
03/09/2015 07:08 PM	Vitals
03/09/2015 07:14 PM	Treatment
03/09/2015 07:14 PM	Vitals
03/09/2015 07:14 PM	Treatment
03/09/2015 07:14 PM	Vitals
03/09/2015 09:09 PM	Treatment
03/09/2015 09:09 PM	Vitals
03/09/2015 09:13 PM	Purchase
03/09/2015 11:42 PM	Treatment
03/09/2015 11:42 PM	Vitals
03/09/2015 11:42 PM	Treatment
03/09/2015 11:42 PM	Vitals
03/09/2015 11:42 PM	Treatment
03/09/2015 11:42 PM	Vitals
03/09/2015 11:43 PM	Treatment
03/09/2015 11:43 PM	Vitals
03/09/2015 11:44 PM	Treatment
03/10/2015 03:38 AM	Treatment
03/10/2015 03:38 AM	Vitals
03/10/2015 03:43 AM	Treatment
03/10/2015 03:43 AM	Vitals
03/10/2015 03:43 AM	Treatment
03/10/2015 03:43 AM	Vitals
03/10/2015 03:43 AM	Treatment
03/10/2015 03:43 AM	Vitals
03/10/2015 05:09 AM	Treatment
03/10/2015 05:09 AM	Vitals
03/10/2015 07:01 AM	Treatment

B6

Client: **B6**
Patient:

Patient History

03/10/2015 07:01 AM Vitals
03/10/2015 07:01 AM Treatment
03/10/2015 07:01 AM Vitals
03/10/2015 07:01 AM Treatment
03/10/2015 07:01 AM Vitals
03/10/2015 07:01 AM Treatment
03/10/2015 07:01 AM Vitals
03/10/2015 07:01 AM Treatment
03/10/2015 07:01 AM Vitals
03/10/2015 07:02 AM Treatment
03/10/2015 07:02 AM Vitals
03/10/2015 09:11 AM Purchase

03/10/2015 09:11 AM Purchase
03/10/2015 11:38 AM Treatment
03/10/2015 11:38 AM Vitals
03/10/2015 11:39 AM Treatment
03/10/2015 11:39 AM Vitals
03/10/2015 11:40 AM Treatment
03/10/2015 11:40 AM Vitals
03/10/2015 11:40 AM Treatment
03/10/2015 11:40 AM Vitals
03/10/2015 12:12 PM Purchase
03/10/2015 12:12 PM Treatment
03/10/2015 01:33 PM UserForm
03/10/2015 01:43 PM Treatment

03/10/2015 01:43 PM Vitals
09/21/2015 05:17 PM UserForm

09/21/2015 05:20 PM Vitals
09/21/2015 05:20 PM Vitals
09/21/2015 05:20 PM Vitals
09/21/2015 05:20 PM Vitals
09/21/2015 05:24 PM Prescription
09/21/2015 05:24 PM Prescription
09/21/2015 05:49 PM Prescription
09/21/2015 07:16 PM Purchase
09/21/2015 07:16 PM Purchase
09/21/2015 07:18 PM Purchase
09/21/2015 07:28 PM Prescription
09/05/2018 08:11 AM Appointment

09/20/2018 01:47 PM Appointment

10/02/2018 03:53 PM UserForm
10/02/2018 03:54 PM UserForm
10/02/2018 03:55 PM UserForm
10/02/2018 03:55 PM Treatment

B6

Client:
Patient:

B6

Patient History

10/02/2018 03:58 PM	Vitals
10/02/2018 04:25 PM	Purchase
10/02/2018 04:25 PM	Purchase
10/02/2018 04:59 PM	UserForm
10/02/2018 05:25 PM	Purchase

B6

From: Related PFR Event <pfrsignificantactivitycreation@fda.hhs.gov>
To: Rotstein, David; Cleary, Michael *; HQ Pet Food Report Notification;
B6
Sent: 6/11/2019 6:36:57 PM
Subject: Pure Balance Salmon and Pea dry: Lisa Freeman - EON-390200
Attachments: 2068093-report.pdf; 2068093-attachments.zip

A PFR Report has been received and Related PFR Event [EON-390200] has been created in the EON System.

A "PDF" report by name "2068093-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 "2068093-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-390200

ICSR #: 2068093

EON Title: Related PFR Event created for Pure Balance Salmon and Pea dry, Taste of the Wild High Prairie dry; 2068093

AE Date	10/31/2018	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	Retriever - Golden		
Age	B6 years		
District Involved	PFR-New England DO		

Product information

Individual Case Safety Report Number: 2068093

Product Group: Pet Food

Product Name: Pure Balance Salmon and Pea dry, Taste of the Wild High Prairie dry

Description: DCM and CHF diagnosed 10/31/18. On BEG diet. Normal taurine levels

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
Taste of the Wild High Prairie dry		
Pure Balance Salmon and Pea dry		

This report is linked to:

Initial EON Event Key: EON-370760

Initial ICSR: 2058697

Sender information

Lisa Freeman
200 Westboro Rd
North Grafton, MA 01536
USA

Owner information

B6
USA

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

B6

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

B6

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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-390200

ICSR:	2068093
Type Of Submission:	Followup
Report Version:	FPSR.FDA.PETF.V.V1
Type Of Report:	Adverse Event (a symptom, reaction or disease associated with the product)
Reporting Type:	Voluntary
Report Submission Date:	2019-06-11 14:25:21 EDT
Initial Report Date:	11/10/2018
Parent ICSR:	2058697
Follow-up Report to FDA Request:	Yes

Reported Problem:	Problem Description:	DCM and CHF diagnosed 10/31/18. On BEG diet. Normal taurine levels
	Date Problem Started:	10/31/2018
	Concurrent Medical Problem:	Yes
	Pre Existing Conditions:	Dermatitis
	Outcome to Date:	Stable

Product Information:	Product Name:	Taste of the Wild High Prairie dry	
	Product Type:	Pet Food	
	Lot Number:		
	Package Type:	BAG	
	Product Use Information:	Description:	Fed for last 3 months until 2 weeks ago when changed to Beneful Salmon dry
	Manufacturer /Distributor Information:		
	Purchase Location Information:		
	Product Name:	Pure Balance Salmon and Pea dry	
	Product Type:	Pet Food	
	Lot Number:		
	Package Type:	BAG	
	Product Use Information:	Description:	Fed for past 6 years until about 3 months ago
	Manufacturer /Distributor Information:		
	Purchase Location Information:		

Animal Information:	Name:	B6	
	Type Of Species:	Dog	
	Type Of Breed:	Retriever - Golden	
	Gender:	Female	
	Reproductive Status:	Neutered	
	Weight:	25.5 Kilogram	
	Age:	B6 Years	
	Assessment of Prior Health:	Good	
	Number of Animals Given the Product:	1	
	Number of Animals Reacted:	1	
Owner Information:	Owner	Yes	

	Information provided:							
	Contact:	<table border="1"> <tr> <td>Name:</td> <td>B6</td> </tr> <tr> <td>Phone:</td> <td>B6</td> </tr> <tr> <td>Email:</td> <td>B6</td> </tr> </table>	Name:	B6	Phone:	B6	Email:	B6
Name:	B6							
Phone:	B6							
Email:	B6							
	Address:	<table border="1"> <tr> <td>B6</td> </tr> <tr> <td>United States</td> </tr> </table>	B6	United States				
B6								
United States								
Healthcare Professional Information:	Practice Name:	Tufts Cummings School of Veterinary Medicine						
	Contact:	<table border="1"> <tr> <td>Name:</td> <td>Lisa Freeman</td> </tr> <tr> <td>Phone:</td> <td>(508) 887-4523</td> </tr> <tr> <td>Email:</td> <td>lisa.freeman@tufts.edu</td> </tr> </table>	Name:	Lisa Freeman	Phone:	(508) 887-4523	Email:	lisa.freeman@tufts.edu
	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:	<table border="1"> <tr> <td>Phone:</td> <td>5088874523</td> </tr> <tr> <td>Email:</td> <td>lisa.freeman@tufts.edu</td> </tr> </table>	Phone:	5088874523	Email:	lisa.freeman@tufts.edu		
	Phone:	5088874523						
	Email:	lisa.freeman@tufts.edu						
Permission To Contact Sender:	Yes							
Preferred Method Of Contact:	Email							
Additional Documents:	Attachment:	Follow-up med records pt 1.pdf						
	Description:	Med records						
	Type:	Medical Records						
	Attachment:	Follow-up med records pt 3.pdf						
	Description:	Med records						
	Type:	Medical Records						
	Attachment:	Follow-up med records pt 2.pdf						
	Description:	Med records						
	Type:	Medical Records						

Client:
Patient:

B6

UCDavis Taurine Panel

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 Contact: **B6**

Clinic/Company Name: Tufts Cummings School of Vet. Med. - Clinical Pathology Laboratory

Address: 200 Westboro Road, North Grafton MA 015369

Email: Clinpath@tufts.edu / cardiovet@tufts.edu

Telephone: **B6** Fax: **B6**

Billing Contact: **B6** Email: **B6**

Billing Contact Phone: **B6** Tax ID: _____

Patient Name: **B6** Species: Golden

Breed: Golden Owner's Name: **B6**

Current Diet: Beneful - was on grain free taste of wild and nature's balance

Sample type: Plasma Whole Blood Urine Food Other

Test: Taurine Complete Amino Acids Other: _____

Taurine Results (lab use only)

Plasma: **B6** Whole Blood: **B6** Urine: _____ Food: _____

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

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

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

BNP

B4

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

Client: **B6**
Patient: **B6**
Species: CANINE
Breed: GOLDEN_RETRIEVE
Gender:
Age: 7Y

Date: 02/14/2019
Requisition #: 1A
Accession #: **B6**
Ordered by: **B6**

B6
TUFTS UNIVERSITY
200 WESTBORO RD
NORTH GRAFTON, Massachusetts 01536
508-839-5395
Account #88933

CARDIOPET proBNP- CANINE

Test	Result	Reference Range	Low	Normal	High
CARDIOPET proBNP- CANINE	B6	0 - 900 pmol/L	HIGH		B6

Comments:

B6

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

Result is greater than 10000 pmol/L

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

Texas A and M Troponin



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: Cardiovet@tufts.edu OR clinpath@tufts.edu

GI Lab Assigned Clinic ID: 11405

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

GI Lab Accession: 13484

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

B6

Comments:

Phone: **B6**
Fax: (979) 862-2864

GI Lab Contact Information

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

Client:
Patient:

B6

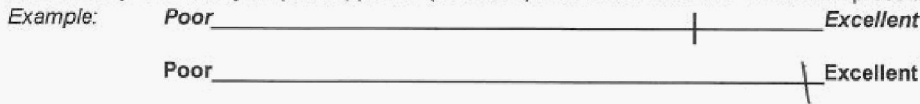
Diet Hx 5/16/2019

427078

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

Pet's name: **B6** Owner's name: **B6** Today's date: **B6**

1. How would you assess your pet's appetite? (mark the point on the line below that best represents your pet's appetite)



2. Have you noticed a change in your pet's appetite over the last 1-2 weeks? (check all that apply)

- Eats about the same amount as usual
- Eats less than usual
- Eats more than usual
- Seems to prefer different foods than usual
- Other _____

3. Over the last few weeks, has your pet (check one)

- Lost weight
- Gained weight
- Stayed about the same weight
- Don't know

1. Please list below ALL pet foods, people food, treats, snack, dental chews, rawhides, and any other food item that your pet currently eats and that you have fed in the last 2 years.

Please provide enough detail that we could go to the store and buy the exact same food - examples are shown in the table

Food (include specific product and flavor)	Form	Amount	How often?	Dates fed
Nutro Grain Free Chicken, Lentil, & Sweet Potato Adult	dry	1 1/2 cup	2x/day	Jan 2016-present
85% lean hamburger	microwaved	3 oz	1x/week	June -Aug 2016
Pupperoni original beef flavor	treat	1/2	1x/day	Sept 2016-present
Rawhide	treat	6 inch twist	1x/week	Dec 2018-present
Purina One true blend turkey + venison	dry	1 cup	2x/day	Dec. 2018
Alpo treats	treat	5/day	→	Dec. 2018

*Any additional diet information can be listed on the back of this sheet

2. Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any other supplements)? Yes No If yes, please list which ones and give brands and amounts:

	Brand/Concentration	Amount per day
Taurine	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No NOW	2) 500 mg twice/day
Carnitine	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
Antioxidants	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
Multivitamin	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
Fish oil	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
Coenzyme Q10	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
Other (please list):	_____	_____
Example: Vitamin C	Nature's Bounty	500 mg tablets - 1 per day
_____	_____	_____
_____	_____	_____
_____	_____	_____

3. How do you administer pills to your pet?

- I do not give any medications
- I put them directly in my pet's mouth without food
- I put them in my pet's dog/cat food
- I put them in a Pill Pocket or similar product
- I put them in foods (list foods): _____

Client: **B6**
Patient:

Chem 21 5/16/19



Tufts Cummings School Of Veterinary Medicine

200 Westboro Road
North Grafton, MA 01536

Name/DOB: **B6** Sex: U Provider: **B6**
Patient ID: **B6** Age: 7 Order Location: V320559: Investigation into
Phone number: Species: Canine Sample ID: **B6**
Collection Date: 5/16/2019 3:55 PM Breed: Golden Retriever
Approval date: 5/16/2019 6:36 PM

Research Chemistry Profile - Small Animal (Cobas)

SMACHUNSKI		Ref. Range/-
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	L	2.3-4.2 g/dL
A/G Ratio	H	0.7-1.6
Sodium		140-150 mEq/L
Chloride		106-116 mEq/L
Potassium		3.7-5.4 mEq/L
tCO2(Bicarb)	B6	14-28 mEq/L
AGAP		8.0-19.0
NA/K		29-40
Total Bilirubin		0.10-0.30 mg/dL
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	L	30-338 mg/dl
Amylase		409-1250 U/L
Osmolality (calculated)		291-315 mmol/L

Sample ID: **B6**
END OF REPORT (Final)

Reviewed by: _____

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

B4 NT-proBNP 5/16/2019

B4

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

Client: **B6**
Patient: **B6**
Species: CANINE
Breed: GOLDEN_RETRIEVE
Gender: FEMALE SPAYED
Age: 7Y

Date: 05/16/2019
Requisition #: 1A
Accession #: **B6**
Ordered by: **B6**

B4
TUFTS UNIVERSITY
200 WESTBORO RD
NORTH GRAFTON, Massachusetts 01536
508-839-5395
Account #88933

CARDIOPET proBNP - CANINE

Test	Result	Reference Range	Low	Normal	High
CARDIOPET proBNP - CANINE	B6	0 - 900 pmol/L	HIGH		B6

Comments

B6

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

Result is greater than 10000 pmol/L

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

B6 script submitted

05/29/2019 11:07 From: **B6** **B6** Page: 1/1

B6 Pharmacy Fax: **B6**

Prescription Refill Request

(This fax contains sensitive patient information. If you are not the intended party, please destroy this fax)
Date printed / faxed 5/29/2019

FIXED
5/30 mm

TO: **B6**
55 WILLARD ST NORTH GRAFTON, MA 01536
Phone 508-839-5395
Fax 508-887-4275

FROM: **B6**

Phone **B6**
Fax **B6**

Patient: **B6**

Phone **B6**
Birthdate **B6** Age 7
Rx # **B6**
Quantity 60
Current Drug **B6** FLEX DOSETAB 7.5MG TABLET

Date written 12/14/2018
Last refill 5/28/2019 Prescription expiration date 12/14/2019
Directions GIVE 1 TABLET BY MOUTH EVERY 12 HOURS

Suggested formula: **B6** **If approved, please initial:** _____
DOSETAB TABLET 7.5MG
#90 GIVE 1 TABLET BY MOUTH THREE TIMES DAILY

OWNER STATES DOSE FREQUENCY HAS INCREASED TO TID

Refill Response: Fax back to the pharmacy at **B6**

May Refill: _____
PRN, or 11 Time(s) as Consistent with State Law or Until **B6**

Authorized by _____ **B6** Date 5/30/19

Comments or Questions:

Client: **B6**
Patient:

Troponin 5/31/2019



Gastrointestinal Laboratory
Dr. J.M. Steiner
Department of Small Animal Clinical Sciences
Texas A&M University
4474 TAMU
College Station, TX 77843-4474



Website User ID: lisa.freeman@tufts.edu 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

Phone: 508 887 4696

Fax:
Animal Name: **B6**
Owner Name:
Species: Canine
Date Received: May 30, 2019

Tufts Cummings School of Vet Med -
Cardiology/Nutrition Tracking Number:
427078

GI Lab Accession: **B6**

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

B6

Comments:

GI Lab Contact Information

Phone: **B6**
Fax: (979) 862-2864

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

Client:
Patient:

B6

ECG from Cardio

B6

2/14/2019 4:16:11 PM

Page 1 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client: **B6**
Patient:

ECG from Cardio

B6

2/14/2019 4:16:11 PM

Page 2 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client:
Patient:

B6

ECG from Cardio

B6

2/14/2019 4:16:12 PM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client: **B6**
Patient:

ECG from Cardio

B6

2/14/2019 4:16:25 PM

Page 1 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client: **B6**
Patient:

ECG from Cardio

B6

2/14/2019 4:16:25 PM

Page 2 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client:
Patient:

B6

ECG from Cardio

B6

2/14/2019 4:19:51 PM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client:
Patient:

B6

ECG from Cardio

B6

2/14/2019 4:20:16 PM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

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

ECG from Cardio

B6

2/14/2019 4:21:38 PM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

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

ECG from Cardio

B6

2/14/2019 4:22:05 PM

Page 1 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client:
Patient:

B6

ECG from Cardio

B6

2/14/2019 4:22:05 PM

Page 2 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Discharge Instructions

Patient

Name: B6

Species: Canine

Blonde Female (Spayed) Golden

Retriever

Birthdate: B6

Owner

Name: B6

Address: B6

Patient ID: B6

Attending Cardiologist:

John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC

B6

Cardiology Resident:

B6

Cardiology Technician:

B6

Student: B6 V19

Admit Date: B6

Discharge Date: B6

Diagnoses:

Dilated cardiomyopathy (DCM);

Intermittent ventricular arrhythmia.

Case summary:

Thank you for bringing B6 to the Tufts Cardiology Service for a recheck visit. On examination today B6 had mild abdominal effort when breathing and had an intermittent arrhythmia when we were listening to her heart. On echocardiogram, her dilated cardiomyopathy (DCM) similar to when we last saw her in November. However, on electrocardiogram (ECG) B6 had an intermittent arrhythmia called ventricular bigeminy where one part of her heart has electrical activity that is abnormal. On chest X-rays, the lungs look slightly worse.

While she was here today, we were worried about how B6 was breathing, so we gave her an extra injectable dose of furosemide and an extra oral dose of B6 which seemed to help her. This makes us believe that she needs some adjustments in her medications, as described below.

Monitoring at home:

- We would like you to monitor her breathing rate and effort at home, ideally during sleep or at a time of rest. The doses of drugs will be adjusted based on the breathing rate and effort.
- In general, most dogs with heart failure that is well controlled have a breathing rate at rest of less than 36 breaths

per minute. In addition, the breathing effort, noted by the amount of belly wall motion used for each breath, is fairly minimal if heart failure is controlled.

- An increase in breathing rate or effort will usually mean that you should give an extra dose of **B6** if difficulty breathing is not improved by within 30-60 minutes after giving extra furosemide then we recommend that a recheck exam be scheduled and/or that your dog be evaluated by an emergency clinic.
- There are instructions for monitoring breathing, and a form to help keep track of breathing rate and drug doses, on the Tufts HeartSmart web site (<http://vet.tufts.edu/heartsmart/at-home-monitoring/>).
- We also want you to watch for weakness or collapse, a reduction in appetite, worsening cough, or distention of the belly as these findings indicate that we should do a recheck examination.
- If you have any concerns, please call or have your dog evaluated by a veterinarian. Our emergency clinic is open 24 hours/day.

B6

5. Taurine supplementation: Give 1000mg (2 capsules) by mouth twice daily. (Brands we recommend include Twintab, Swanson, NOW and GNC brands).

Taurine is an amino acid that is shown to be necessary for appropriate heart health. Supplementing Taurine, in some cases, has lead to reduction in heart enlargement and an increase in heart health in dogs with DCM. Even though Kiwi has normal taurine levels, this supplement could still help her heart contract better.

Diet suggestions:

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

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

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

- We recommend switching [B6] to commercial diet made by a well-established company that is not grain-free and does not contain any exotic ingredients, such as kangaroo, duck, lamb, venison, lentils, peas, beans, buffalo, tapioca, barley, and chickpeas.
- The FDA issued a statement regarding this issue (<https://www.fda.gov/AnimalVeterinary/NewsEvents/CVMUpdates/uom613305.htm>) and a recent article published by Dr. Lisa Freeman on the Cummings School's Pet Foodology blog can further explain these findings (<http://vetnutrition.tufts.edu/2018/06/a-broken-heart-risk-of-heart-disease-in-boutique-or-grain-free-diets-and-exotic-ingredients/>).
- Our nutritionists have compiled a list of dog foods that are good options for dogs with heart disease.

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

Exercise Recommendations:

[B6] can continue to have controlled leash walks. However, if you find that she is lagging behind or needs to stop on a walk then this was too long a walk and shorter walks are advised in the future. Repetitive or strenuous high energy activities (repetitive ball chasing, running fast off-leash, etc.) are generally not advised at this stage of heart failure.

Recheck Visits:

A recheck visit is recommended at [B6], when we will recheck her echocardiogram and perform some blood tests.

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

Please visit our HeartSmart website for more information

<http://vet.tufts.edu/heartsmart/>

Prescription Refill Disclaimer:

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

Ordering Food:

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

Clinical Trials:

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

Case: [B6]

Owner: [B6]

Discharge Instructions

Radiology Request & Report

Patient

Name: B6
Species: Canine
Blonde Female (Spayed) Golden
Retriever
Birthdate: B6

Owner

Name: B6
Address: B6

Patient ID: B6
Date of request: B6

Attending Clinician: B6 DVM (Resident - Cardiology)

Student: B6 V19

Date of exam: 2/14/2019

Patient Location: Ward/Cage: cardio room

Weight (kg) 25.70

- Inpatient
- Outpatient Time:
- Waiting
- Emergency

Sedation

- BAG
- OBAG
- 1/2 dose OBAG
- DexDomitor/Butorphanol
- Anesthesia to sedate/anesthetize

Examination Desired: Thoracic rads RL + DV

Presenting Complaint and Clinical Questions you wish to answer:

Cardiology Recheck DCM. History of CHF on October 2018. Shortness of breath today. Worse DCM on echo today.

Pertinent History:

B6

Conclusions:

-Moderate to marked generalized cardiomegaly with moderate to marked left atrial enlargement are consistent with previous diagnosis of dilated cardiomyopathy. On this study, cardiogenic edema is thought less likely. Follow-up radiographs can be consider to monitor this possibility.
-Mild non-specific hepatomegaly.

Radiologists

Primary: [B6] DVM

Reviewing:

Dates

Reported: [B6]

Finalized:

Cummings Veterinary Medical Center

AT TUFTS UNIVERSITY

Cardiology Liaison: 508-887-4696

B6

Patient ID: **B6**

B6 Canine
Years Old Female (Spayed) Golden Retriever
Blonde

Cardiology Appointment Report ENROLLED IN DCM STUDY

Date: 2/14/2019

Attending Cardiologist:

John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC

B6

Cardiology Resident:

B6

Cardiology Technician:

B6

Student: **B6** V19

Presenting Complaint:

Recheck DCM with a history of CHF

Concurrent Diseases:

None

General Medical History:

Diagnosed with DCM and CHF on **B6** enrolled in DCM study.

In the past week or so she is not as energized, not as interactive with O which is abnormal for her, going to sleep a lot earlier, slowing down significantly on her daily walk. Coughing/gagging again, about twice a day which also started about a week ago. Breathing sounds like she is wheezing on occasion especially when sleeping, also started in the last week. O unsure of respiratory rate during these episodes, though she does seem to have abdominal effort. Great appetite still, drinks a lot but has been since starting meds. Only change in routine is that O has been home more frequently in the last week or so.

Around christmas she had an episode where she collapsed on a walk and was unconscious. She had spit out some **B6** pills that day. Took some time to get back on track but had been normal up until this last week.

Diet and Supplements:

Purina true instinct turkey blend dry, 1 "scoop" twice a day, alpo dog treats daily
No supplements

Cardiovascular History:

Prior CHF diagnosis? yes

Prior heart murmur? yes

Prior ATE? no

Prior arrhythmia? no

Monitoring respiratory rate and effort at home? Yes, not super consistent about checking it, but when they do check it is around 24 on average, never above 40

Cough? Yes

Shortness of breath or difficulty breathing? Yes

Syncope or collapse? Yes in december

Sudden onset lameness? No, limps on a back leg occasionally, gets worse throughout the day, waxes and wanes

Exercise intolerance? Yes

B6

Muscle condition:

Normal

Mild muscle loss

Moderate cachexia

Marked cachexia

Cardiovascular Physical Exam:

Murmur Grade:

None

I/VI

II/VI

IV/VI

V/VI

VI/VI

III/VI

Murmur location/description: left apical systolic

Jugular vein:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Bottom 1/3 of the neck | <input type="checkbox"/> 1/2 way up the neck |
| <input type="checkbox"/> Middle 1/3 of the neck | <input type="checkbox"/> Top 2/3 of the neck |

Arterial pulses:

- | | |
|--|---|
| <input type="checkbox"/> Weak | <input type="checkbox"/> Bounding |
| <input checked="" type="checkbox"/> Fair | <input type="checkbox"/> Pulse deficits |
| <input type="checkbox"/> Good | <input type="checkbox"/> Pulsus paradoxus |
| <input type="checkbox"/> Strong | <input type="checkbox"/> Other: |

Arrhythmia:

- | | |
|---|--------------------------------------|
| <input checked="" type="checkbox"/> None | <input type="checkbox"/> Bradycardia |
| <input type="checkbox"/> Sinus arrhythmia | <input type="checkbox"/> Tachycardia |
| <input type="checkbox"/> Premature beats | |

Gallop:

- | | |
|--|-------------------------------------|
| <input type="checkbox"/> Yes | <input type="checkbox"/> Pronounced |
| <input checked="" type="checkbox"/> No | <input type="checkbox"/> Other: |
| <input type="checkbox"/> Intermittent | |

Pulmonary assessments:

- | | |
|--|---|
| <input type="checkbox"/> Eupneic | <input type="checkbox"/> Pulmonary crackles |
| <input checked="" type="checkbox"/> Mild dyspnea | <input type="checkbox"/> Wheezes |
| <input type="checkbox"/> Marked dyspnea | <input type="checkbox"/> Upper airway stridor |
| <input checked="" type="checkbox"/> Normal BV sounds | |

Abdominal exam:

- | | |
|---|---|
| <input type="checkbox"/> Normal | <input type="checkbox"/> Mild ascites |
| <input type="checkbox"/> Hepatomegaly | <input type="checkbox"/> Marked ascites |
| <input checked="" type="checkbox"/> Abdominal distension-mild cranial distension, non-painful on palpation, no masses/organomegaly/fluid wave noted | |

Problems:

DCM with a hx of CHF 10/31/18

Diagnostic plan:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Echocardiogram | <input type="checkbox"/> Dialysis profile |
| <input type="checkbox"/> Chemistry profile | <input checked="" type="checkbox"/> Thoracic radiographs |
| <input type="checkbox"/> ECG | <input checked="" type="checkbox"/> NT-proBNP |
| <input type="checkbox"/> Renal profile | <input checked="" type="checkbox"/> Troponin I |
| <input type="checkbox"/> Blood pressure | <input type="checkbox"/> Other tests: |

B6

B6

Mitral inflow:

- | | |
|---|---------------------------------------|
| <input type="checkbox"/> Summated | <input type="checkbox"/> Pseudonormal |
| <input checked="" type="checkbox"/> Normal | <input type="checkbox"/> Restrictive |
| <input type="checkbox"/> Delayed relaxation | |

B6

Radiographic findings:

Marked generalized cardiomegaly with severe LA enlargement. The pulmonary vessels appear to be at the upper end of normal. Suspicion for a mild interstitial pattern in the caudal lung lobe consistent with mild pulmonary edema/CHF.

Assessment and recommendations:

Findings consistent with poor but stable systolic dysfunction and cardiac size. Thoracic radiographs suggest mild active CHF and ECG reveals frequent ventricular arrhythmias which were not present before. Thus, medication adjustment is needed and B6 are recommended. B6 it is unclear at this point whether patient has primary DCM or diet-induced cardiomyopathy. However, it has been only 4 months and current diet should be maintained and additionally today Taurine 1000mg BID was started. Recommend recheck echocardiogram in 3 months or sooner in case patient develops clinical signs consistent with worsening of the disease.

Final Diagnosis:

- DCM with marked LA enlargement r/o primary DCM vs. diet-induced;
- Suspected active CHF.

Heart Failure Classification Score:

ISACHC Classification:

- | | |
|-----------------------------|--|
| <input type="checkbox"/> Ia | <input checked="" type="checkbox"/> IIIa |
| <input type="checkbox"/> Ib | <input type="checkbox"/> IIIb |
| <input type="checkbox"/> II | |

ACVIM Classification:

- | | |
|----------------------------|---------------------------------------|
| <input type="checkbox"/> A | <input checked="" type="checkbox"/> C |
|----------------------------|---------------------------------------|

- B1
- B2

D

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

EPSS

B6

cm
cm
cm
cm
cm
ml
ml
%
%
ml
cm
cm
cm
cm
cm

M-Mode Normalized

IVSdN

LVIDdN

LVPWdN

IVSsN

LVIDsN

LVPWsN

Ao Diam N

LA Diam N

B6

{0.290 - 0.520}
{1.350 - 1.730} !
{0.330 - 0.530}
{0.430 - 0.710}
{0.790 - 1.140} !
{0.530 - 0.780}
{0.680 - 0.890} !
{0.640 - 0.900} !

2D

SA LA

Ao Diam

SA LA / Ao Diam

IVSd

LVIDd

LVPWd

EDV(Teich)

IVSs

LVIDs

LVPWs

ESV(Teich)

EF(Teich)

%FS

SV(Teich)

LV Major

LV Minor

B6

cm
cm
cm
cm
ml
cm
cm
cm
ml
%
%
ml
cm
cm

Sphericity Index
LVld LAX
LVAd LAX
LVEDV A-L LAX
LVEDV MOD LAX
LVls LAX
LVA_s LAX
LVESV A-L LAX
LVESV MOD LAX
HR
EF A-L LAX
LVEF MOD LAX
SV A-L LAX
SV MOD LAX
CO A-L LAX
CO MOD LAX

B6

cm
cm
ml
ml
cm
cm
ml
ml
BPM
%
%
ml
ml
l/min
l/min

Doppler

MR Vmax
MR maxPG
MV E Vel
MV DecT
MV Dec Slope
MV A Vel
MV E/A Ratio
E'
E/E'
A'
S'
AV Vmax
AV maxPG
PV Vmax
PV maxPG
TR Vmax
TR maxPG

B6

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

m/s

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

B6

B6 Female (Spayed)
Canine Golden Retriever Blonde
Patient ID: **B6**

Outside Prescription Log

B6

B6

8. Date:

Clinician:

Prescription:

Pharmacy sent to:

Completed by:

Origin of request:

9. Date:

Clinician:

Prescription:

Pharmacy sent to:

Completed by:

Origin of request:

10. Date:

Clinician:

Prescription:

Pharmacy sent to:

Completed by:

Origin of request:

Discharge Instructions

Patient

Name: B6

Species: Canine

Blonde Female (Spayed) Golden
Retriever

Birthdate: B6

Owner

Name: B6

Address: B6

Patient ID: B6

Attending Cardiologist:

John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC

B6

Cardiology Resident:

B6

Cardiology Technician:

B6

Student:

Admit Date: 5/16/2019

Diagnoses:

- o Dilated cardiomyopathy (DCM)

Case summary:

Thank you for bringing B6 to the B6 Cardiology Service for a recheck visit. We are happy to hear that B6 is doing well at home on her current medication regimen. On examination today, B6 vital parameters (heart rate and respiratory rate) were within normal limits. On echocardiogram, her dilated cardiomyopathy (DCM) is similar to when we last saw her in February (no worse). B6 respiratory rate and effort were increased during her echocardiogram and we administered an injectable dose of furosemide.

Today we drew blood to submit a serum chemistry and recheck NT-Pro-BNP and also collected urine for a urinalysis. We will call you tomorrow with the results of these tests.

Please continue to monitor B6 respiratory rate and effort at home. If it is increased in rate and effort, you can give one dose of B6 (another diuretic that is more potent than B6). This medication can be used as a "rescue", and please let us know if you ever had to give her any dose. In case you notice that she is breathing with a respiratory rate higher than 32bpm (at rest), we can also take radiographs to look for signs of congestive heart failure.

When we call you tomorrow with bloodwork results we will discuss how her breathing has been at home.

Monitoring at home:

- We would like you to monitor her breathing rate and effort at home, ideally during sleep or at a time of rest. The doses of drugs will be adjusted based on the breathing rate and effort.
- In general, most dogs with heart failure that is well controlled have a breathing rate at rest of less than 36 breaths per minute. In addition, the breathing effort, noted by the amount of belly wall motion used for each breath, is fairly minimal if heart failure is controlled.
- An increase in breathing rate or effort will usually mean that you should give an extra dose of B6 if difficulty breathing is not improved by within 30-60 minutes after giving extra furosemide then we recommend that a recheck exam be scheduled and/or that your dog be evaluated by an emergency clinic.
- There are instructions for monitoring breathing, and a form to help keep track of breathing rate and drug doses, on the Tufts HeartSmart web site (<http://vet.tufts.edu/heartsmart/at-home-monitoring/>).
- We also want you to watch for weakness or collapse, a reduction in appetite, worsening cough, or distention of the belly as these findings indicate that we should do a recheck examination.
- If you have any concerns, please call or have your dog evaluated by a veterinarian. Our emergency clinic is open 24 hours/day.

B6

Exercise Recommendations:

Continue to exercise restrict B6 at home. Repetitive or strenuous high energy activities (repetitive ball chasing, running fast off-leash, etc.) are generally not advised at this stage of heart failure.

Recheck Visits:

A recheck visit is recommended at Tuesday, August 19th at 1pm, when we will recheck her echocardiogram and perform some blood tests.

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

Please visit our HeartSmart website for more information

<http://vet.tufts.edu/heartsmart/>

Prescription Refill Disclaimer:

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

Ordering Food:

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

Clinical Trials:

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

Case: B6

Owner: B6

Discharge Instructions

From: PFR Event <pfpreventcreation@fda.hhs.gov>
To: Cleary, Michael *; HQ Pet Food Report Notification; B6
Sent: 4/1/2019 9:48:46 PM
Subject: ACANA - Heritage Red Meat Formula Dog Food (Grain-free): Kelsey Weeks - EON-383914
Attachments: 2065085-report.pdf; 2065085-attachments.zip

A PFR Report has been received and PFR Event [EON-383914] has been created in the EON System.

A "PDF" report by name "2065085-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 "2065085-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-383914

ICSR #: 2065085

EON Title: PFR Event created for ACANA - Heritage Red Meat Formula Dog Food (Grain-free); 2065085

AE Date	03/15/2019	Number Fed/Exposed	2
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	Shepherd Dog - German		
Age	B6 Years		
District Involved	PFR-New England DO		

Product information

Individual Case Safety Report Number: 2065085

Product Group: Pet Food

Product Name: ACANA - Heritage Red Meat Formula Dog Food (Grain-free)

Description: 3/15/2019 - Acute onset of difficulty breathing on walk, increased resp rate, wheezing and short of breath. Diagnosed with DCM and CHF

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
ACANA - Heritage Red Meat Formula Dog Food (Grain-free)		

Sender information

B6

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

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.

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-383914

ICSR: 2065085
 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: 2019-04-01 17:42:39 EDT

Reported Problem:
Problem Description: 3/15/2019 - Acute onset of difficulty breathing on walk, increased resp rate, wheezing and short of breath. Diagnosed with DCM and CHF
Date Problem Started: 03/15/2019
Concurrent Medical Problem: No
Outcome to Date: Stable

Product Information:
Product Name: ACANA - Heritage Red Meat Formula Dog Food (Grain-free)
Product Type: Pet Food
Lot Number:
Package Type: BAG
Product Use Information:
Manufacturer /Distributor Information:
Purchase Location Information:

Animal Information:
Name:
Type Of Species: Dog
Type Of Breed: Shepherd Dog - German
Gender: Female
Reproductive Status: Neutered
Weight: 25.9 Kilogram
Age: B6 Years
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: B6
 Phone: B6
Address: B6
 United States
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 Road
 North Grafton

			Massachusetts 01536 United States
		Type of Veterinarian:	Referred veterinarian
		Permission to Release Records to FDA:	Yes
Sender Information:	Name:		
	Address:	<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> B6 </div>	
		United States	
	Contact:	Phone:	
		Email:	<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> B6 </div>
	Permission To Contact Sender:	Yes	
	Preferred Method Of Contact:	Email	
Reported to Other Parties:	None		
Additional Documents:	Attachment:	Medical record 4-1-2019.pdf	
	Description:	Medical records	
	Type:	Medical Records	

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

Cummings
Veterinary Medical Center
 AT TUFTS UNIVERSITY

Foster Hospital for Small Animals

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

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

Patient:	B6
Species:	Canine
Breed:	German Shepherd
Sex:	Female (Spayed)
Age:	B6

Lab Results Report

CBC (Research) (Advia) 3/22/2019 3:35:09 PM Accession ID: **B6**

Test	Results	Reference Range	Units
WBC (ADVIA)	B6	4.4 - 15.1	K/uL
RBC(ADVIA)		5.8 - 8.5	M/uL
HGB(ADVIA)		13.3 - 20.5	g/dL
HCT(ADVIA)		39 - 55	%
MCV(ADVIA)		64.5 - 77.5	fL
MCH(ADVIA)		21.3 - 25.9	pg
MCHC(ADVIA)		31.9 - 34.3	g/dL
CHCM		0 - 0	g/dl
RDW (ADVIA)		11.9 - 15.2	
COMMENTS (HEMATOLOGY)		0 - 0	

Hemolysis present 0-1 platelets per High power field

CBC (Research) (Advia) 3/22/2019 3:35:10 PM Accession ID: **B6**

Test	Results	Reference Range	Units
SEGS%	B6	43 - 86	%
LYMPHS%		7 - 47	%
MONOS%		1 - 15	%
EOS%		0 - 16	%
NRBC		0 - 1	/100 WBC
SEGS (AB)ADVIA		2.8 - 11.5	K/ul
LYMPHS (ABS)ADVIA		1 - 4.8	K/uL
MONOS (ABS)ADVIA		0.1 - 1.5	K/uL



4/61

B6

Printed Monday, April 1, 2019

Client: **B6**
Patient:

EOS (ABS)ADVIA 0 - 1.4 K/uL
WBC MORPHOLOGY 0 - 0
No Morphologic Abnormalities
POIKILOCYTOSIS 0 - 0

B6

CBC (Research) (Advia) 3/22/2019 3:35:26 PM Accession ID: B6

Test	Results	Reference Range	Units
GLUCOSE	B6	67 - 135	mg/dL
UREA		8 - 30	mg/dL
CREATININE		0.6 - 2	mg/dL
PHOSPHORUS		2.6 - 7.2	mg/dL
CALCIUM2		9.4 - 11.3	mg/dL
MAGNESIUM 2+		1.8 - 3	mEq/L
T. PROTEIN		5.5 - 7.8	g/dL
ALBUMIN		2.8 - 4	g/dL
GLOBULINS		2.3 - 4.2	g/dL
A/G RATIO		0.7 - 1.6	
SODIUM		140 - 150	mEq/L
CHLORIDE		106 - 116	mEq/L
POTASSIUM		3.7 - 5.4	mEq/L
tCO2 (BICARB)		14 - 28	mEq/L
AGAP		8 - 19	
NA/K		29 - 40	
T BILIRUBIN		0.1 - 0.3	mg/dL
ALK PHOS		12 - 127	U/L
GGT		0 - 10	U/L
ALT		14 - 86	U/L
AST	9 - 54	U/L	
CK	22 - 422	U/L	
CHOLESTEROL	82 - 355	mg/dL	
TRIGLYCERIDES	30 - 338	mg/dl	
AMYLASE	409 - 1250	U/L	
OSMOLALITY (CALCULATED)	291 - 315	mmol/L	
COMMENTS (CHEMISTRY)	0 - 0		



Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:	B6	Species:	CANINE	Sex:	Spayed Female
Address:	B6	Age:	B6		
		Color:	black and red		

Date	Type	Staff	History
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3/19/2019	CM	B6	EMAIL Recipients: TO: B6 (Other) Attachments: B6 2739-2_ph.pdf (Patient History) Subject: Patient History from: B6 for: Message: No message entered.
3/19/2019	CM	B6	EMAIL Recipients: TO: ATTN Guardian (Other) Attachments: B6 2739-2_ph.pdf (Patient History) Subject: Patient History from: B6 for: Message: No message entered.
3/18/2019	D	4	Dilated or Congested Cardiomyopathy Tentative
3/18/2019	I	4	B6 IT WILL CAUSE INCREASED THIRST AND DESIRE TO URINATE. BE SURE YOUR PET HAS FRESH, CLEAN DRINKING WATER AT ALL TIMES. ALLOW YOUR PET TO HAVE ACCESS OUTDOORS MORE OFTEN WHILE ON A DIURETIC MEDICATION.
3/18/2019	P	4	B6
3/18/2019	P	4	B6

3/18/2019	TC	4	B6 Heart: Irregular rhythm, extra beats occasionally. ECG has VPC's. Radiographs reveal enlarged heart, tall, dorsal displacement of trachea, loss of caudal waist, congestion of veins B6 Assessment: Ultrasound revealed thin wall to ventricles, dilated ventricles Rule Outs DCM, dietary related likely Plan: B6 Recommend see cardiologist, transition to regular diet --
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B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

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

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:	B6	Species:	CANINE	Sex:	Spayed Female
Address:	B6	Age:	B6	Color:	black and red

Date	Type	Staff	History
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not grain free. Call the food company and let them know.

3/18/2019 T 3/18/2019 P		Image: Thorax B6
3/18/2019 C	B6	Technician Note Here for coughing on and off. Started 3 days ago. Its worse in the morning. No change in diet. No medications other then a joint supplement.
3/18/2019 T 3/18/2019 V	4	image: Mar 18, 2019 04:24 PM Staff: 4 Weight : 67.20 pounds
1/23/2019 L	4	Microbiology results from IDEXX Reference Laboratory Requisition ID: 117388426 Test Result Reference Range OVA&PARA WHIPWORM HOOKWORM ROUNDWORM Asc: B6
B6		

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

B6

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
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infectious agents using RealPCR (canine diarrhea panel: test code 2625; feline diarrhea panel: test code 2627).

1/22/2019	L	4	SNAP Assays results from IDEXX VetLab In-clinic Laboratory Requisition ID: 19361 Posted Final Test Result Reference Range HW = B6 Lyme = AP_spp = EC-EE =
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1/22/2019	I	B6	B6
1/22/2019	I	B6	
1/22/2019	I	B6	
1/22/2019	I	4	
1/22/2019	V	B6	

Weight : 69.20 pounds

1/22/2019	E	4	Adult Canine: 0 Abnormals
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1/22/2019	C	B6	Tech History-Canine - Closed Jan 23/2019 B6
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B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

B6

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
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B6

10/16/2018	C	22	Exam/Medical Notes
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B6

10/16/2018	P	22	B6
10/16/2018	P	22	

10/16/2018	C	B6	Technician Note
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B6

10/16/2018	V	22	Oct 16, 2018 03:27 PM Staff: 22
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Weight : 69.00 pounds

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

B6

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	11 Yrs. 6 Mos.	Color:	B6

Date	Type	Staff	History
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9/13/2018	D	4	B6 Final
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9/13/2018	C	4	Exam/Medical Notes B6
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9/13/2018	I	4	B6
9/13/2018	P	4	

9/13/2018	C	B6	Technician Note B6
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9/13/2018	V	4	Sep 13, 2018 02:46 PM Staff: 4 Weight : 69.40 pounds
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6/20/2018	R	22	Rabies Certificate w/Dr Signature 2.-CLOSED_06/21/2018 B6 B6 B6
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B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vitalsigns

B6

Client: **B6**
Patient:

Medical records

Patient History Report

Client: **B6** Patient: **B6**
Phone: **B6** Species: CANINE Breed: GERMAN SHEPHERD
Address: **B6** Age: **B6** Sex: Spayed Female
Color: black and red

Date	Type	Staff	History
------	------	-------	---------

Rabies Certificate

Client ID: **B6** Patient ID: **B6**
Client Name: **B6** Patient Name: **B6**
Address: **B6** Species: CANINE
Breed: GERMAN SHEPHERD
Sex: Spayed Female
Color: black and red
Phone: **B6** Markings: **B6**
Birthdate: **B6**
Weight: 65.8
Microchip#: **B6**

Tag Number: **B6**
Lot Number: **B6**
Vaccination Date: **B6**
Expiration Date: **B6**
Producer: **B6**
K/MLV: **B6**

B6

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

B6

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANTINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
6/20/2018	I	22	B6
6/20/2018	I	22	
6/20/2018	I	22	
6/20/2018	E	22	

6/20/2018	C	B6	Technician Note
B6			

6/20/2018	V	B6	Jun 20, 2018 05:03 PM Staff: B6
		Weight:	: 65.80 pounds

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vitalsigns

B6

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	

Date	Type	Staff	History
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5/24/2018 P 4

B6

1/11/2018 L 22

Microbiology results from IDEXX Reference
Laboratory Requisition ID: 108610170 Posted Final
Test Result Reference Range
OVA&PARA
WHIPWORM **B6**
HOOKWORM
ROUNDWORM
Asc: **B6**

OVA & PARASITES

B6

1/10/2018 L 22

SNAP Assays results from IDEXX VetLab In-clinic
Laboratory Requisition ID: 17113 Posted Final
Test Result Reference Range
HW =
Lyme = **B6**
AP_spp =
EC-EE =

1/10/2018 I 22

Your pet was vaccinated with the Boehringer Ingelheim Duramune Lyme vaccine on the left side of the chest with a Serial # 6960100A with expiration date Aug

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TG: Tentative med note, V: Vital signs

B6

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
1/10/2018	I	22	5,2018 Have you checked out your Pelly page? This free service allows you to access pet information including bloodwork and vaccine reminders, order prescription refills, request appointments, and more! Please be sure to provide us with your email address so you can take advantage of this opportunity.
1/10/2018	P	22	B6
1/10/2018	E	22	B6

1/10/2018	C	B6	Tech History-Canine - Closed Jan 11/2018 B6
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1/10/2018	V	B6	Jan 10, 2018 02:57 PM Staff: B6 Weight: : 60.20 pounds
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7/11/2017	C	B6	Tech History-Canine - Closed Jul 12/2017
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B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
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B6

7/11/2017 E 2
7/11/2017 I 2
7/11/2017 I 2

Small Animal: 0 Abnormals

7/11/2017 I

B6

B6

7/11/2017 P

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimate, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TG: Tentative med note, V: Vital signs

B6

Page 10 of 30

Date: 3/20/2019 11:15 AM

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
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7/11/2017	P	B6	B6
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7/11/2017 V Jul 11, 2017 12:05 PM Staff **B6**

Weight : 59.40 pounds

2/4/2017 L 2 UA/Microscopy results from IDEXX Reference Laboratory Requisition ID: 103441206 Posted Final Test Result Reference Range

- BACTERIA
- BILIRUBIN
- BLOOD
- CASTS
- CLARITY
- COLOR
- CRYSTALS
- EPI CELL
- GLUCOSE
- KETONES
- MUCUS
- OTHER
- PH
- PROTEIN
- RBC
- SP GRAVITY
- UROB
- WBC

B6

0 - 5

Asc: **B6**
UCUP

RE: 900 COLLECTION METHOD FREE-CATCH

B6

1/20/2017 L 2 Microbiology results from IDEXX Reference Laboratory Requisition ID: 103265539 Posted Final Test Result Reference Range

- OVA&PARA
- WHIPWORM
- HOOKWORM

B6

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

B6

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:	B6	Species:	CANINE	Sex:	Spayed Female
Address:	B6	Age:	B6	Color:	black and red

Date	Type	Staff	History
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B6

Test	Result	Reference Range	Posted	Final	
HCT	B6	38.3 - 56.5			
HGB		13.4 - 20.7			
MCHC		32.6 - 39.2			
WBC		4.9 - 17.6			
LYMPHS					
MONOS					
EOS					
BASO					
RBC		5.39 - 8.70			
MCV		59 - 76			
MCH	21.9 - 26.1				
NEUT SEG					
PLATELETS		143 - 448			
RETIC CNT					
ABS BASO		0 - 100			
ABS EOS		70 - 1490			
ABS LYMPHS		1060 - 4950			
ABS MONOS		130 - 1150			
ABS NEUTS		2940 - 12670			

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PAPVL: Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

B6

Client: **B6**
Patient:

Medical records

Patient History Report

Client Phone Address	B6	Patient: B6 Species: CANINE Age: B6 Color: black and red	Breed: GERMAN SHEPHERD Sex: Spayed Female
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Date Type Staff History

ABS RET **B6** 10 - 110
Asc: **B6**
RE: 3034 REMARKS
REMARKS

B6

1/20/2017 L 2

Chemistry results from IDEXX Reference Laboratory Requisition
ID: 103265148 Posted Final

Test	Result	Reference Range
ALB		2.7 - 3.9
ALKP		5 - 160
ALT		18 - 121
AMYL		337 - 1469
AST		16 - 55
BUN/UREA		9 - 31
Ca		8.4 - 11.8
Chloride		108 - 119
CHOL		131 - 345
CK		10 - 200
CREA		0.5 - 1.5
DBIL		0.0 - 0.1
GGT		0 - 13
GLU		63 - 114
LIPA		138 - 755
PHOS		2.5 - 6.1
Potassium		4.0 - 5.4
Sodium		142 - 152
TBIL		0.0 - 0.3
TP		5.5 - 7.5
GLOB		2.4 - 4.0
ANION GAP		11 - 26
BICARB		13 - 27
IBIL		0.0 - 0.2
A/G Ratio		0.7 - 1.5
B/C Ratio		
Na/K Ratio		28 - 37
SDMA		0 - 14

B6

Asc: **B6**

RE: 281 HEMOLYSIS INDEX N

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

RE: 282 LIPEMIA INDEX N

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

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

B6

Page 13 of 30

Date: 3/20/2019 11:15 AM

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
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B6

1/20/2017 L 2 Endocrinology results from IDEXX Reference
Laboratory Requisition ID: 103265148 Posted Final
Test Result Reference Range
T4 **B6** 1.0 - 4.0
Asc#: **B6**

Interpretive ranges:
<1.0 Low
1.0-4.0 Normal
>4.0 High
2.1-5.4 Therapeutic
Dogs with no clinical signs of hypothyroidism and results within the normal reference range are likely euthyroid. Dogs with low T4 concentrations may be hypothyroid or euthyroid sick. Occasionally, hypothyroid dogs can have T4 concentrations that are low normal. Dogs with clinical signs of hypothyroidism and low or low normal T4 concentrations may be evaluated further by submission of free T4 and canine TSH. A high T4 concentration in a clinically normal dog is likely variation of normal; however elevations may occur secondary to thyroid autoantibodies or rarely thyroid neoplasia. For dogs on thyroid supplement, acceptable 4-6 hour post pill total T4 concentrations generally fall within the higher end or slightly above the reference range.

1/20/2017 L 2 Miscellaneous results from IDEXX Reference

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

B6

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
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Laboratory Requisition ID: 103265148 Posted Final
Ascn: **B6**
RE: 950 UPC IF INDICATED
UPC IF INDICATED

B6

1/19/2017	L	2	SNAP Assays results from IDEXX VetLab In-clinic Laboratory Requisition ID: 15201 Posted Final Test Result Reference Range HW = Lyme = AP_spp = EC-EE =
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B6

1/19/2017	I	2	B6
1/19/2017	I	2	
1/19/2017	I	2	
1/19/2017	P	2	
1/19/2017	E	2	

1/19/2017 C **B6** Tech History-Canine - Closed Jan 20/2017

B6

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

B6

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
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B6

1/19/2017 V **B6** Jan 19, 2017 02:01 PM Staff: **B6**
Weight : 64.00 pounds

5/25/2016 C 4 Exam/Medical Notes
B6

5/25/2016 D 4 Sprain Final
5/25/2016 I 4
B6

5/25/2016 C **B6** Technician Note
B6

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TG: Tentative med note, V: Vital signs

B6

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
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5/25/2016 V **B6** May 25, 2016 03:47 PM Staff: **B6**

Weight : 65.20 pounds
Temperature : 101.5

11/23/2015 L 2 SNAP Assays results from IDEXX VetLab In-clinic Laboratory Requisition ID: 13362 Posted Final
Test Result Reference Range
HW =
Lyme = **B6**
AP_spp =
EC-EE =

11/23/2015 I 2

B6

11/23/2015 I 2

11/23/2015 I 2

11/23/2015 I 2 Have you checked out your Pet Portal? This free service allows you to access pet information including bloodwork and vaccine reminders, order prescription refills, request appointments, and more! Please be sure to provide us with your email address so you can take advantage of this opportunity.

11/23/2015 I 2

B6

11/23/2015 P 2

11/23/2015 P 2

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

B6

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

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
11/23/2015	V		B6 Nov 23, 2015 11:34 AM Weight : 60.00 pounds
11/23/2015	P	2	B6
11/23/2015	P	2	
11/23/2015	E	2	

11/23/2015	C	B6	Tech History-Canine - Closed Nov 24/2015 B6
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11/23/2015	L	2	Microbiology results from IDEXX Reference Laboratory Requisition ID: 100159968 Test Result Reference Range OVA&PARA WHIPWORM HOOKWORM ROUNDWORM Ascn: B6 FV FS CANINE	Posted Final
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B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TG: Tentative med note, V: Vital signs

Client: **B6**
Patient:

Medical records

Patient History Report

Client: **B6** Patient: **B6**
Phone: **B6** Species: CANINE Breed: GERMAN SHEPHERD
Address: **B6** Age: **B6** Sex: Spayed Female
Color: black and red

Date Type Staff History

B6

5/7/2015 C 4 Exam/Medical Notes
RV right hip SQ.

5/7/2015 R 4 Rabies Certificate w/Dr Signature 2 - CLOSED 05/08/2015

B6 **B6**
B6

Rabies Certificate

Client ID: **B6** Patient ID: **B6**
Client Name: **B6** Patient Name: **B6**
Address: **B6** Species: CANINE
Breed: GERMAN SHEPHERD
Sex: Spayed Female
Color: black and red
Phone: **B6** Markings: **B6**

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

B6

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
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Birthdate: **B6**

Weight: 59.8

Microchip#: **B6**

Tag Number:
Lot Number:
Vaccination Date:
Expiration Date:
Producer:
K / MLV:

B6

B6

5/7/2015	I	4	It is required by Connecticut state law that all domestic animals be vaccinated for Rabies according to State statutes. Currently, dogs and cats must receive a rabies vaccination by 6 months of age. Revaccination is required within 12 months of the first vaccination. Booster vaccinations must then be done within 36 months of the second vaccination for the animal to be considered 'Current' on its rabies vaccinations.
5/7/2015	I	4	B6
5/7/2015	V	4	May 7, 2015 10:44 AM Staff: 4

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TG: Tentative med note, V: Vital signs

B6

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
2/14/2015	V	B6	Weight : 59.80 pounds Feb 14, 2015 12:46 PM Staff: B6 Weight : 59.40 pounds
2/6/2015	I	2	B6
2/6/2015	V	B6	
9/9/2014	C	2	Exam/Medical Notes B6
9/9/2014	P	4	B6
9/9/2014	C	4	Exam/Medical Notes B6
9/9/2014	C	B6	Technician Note B6
9/9/2014	V	2	Sep 9, 2014 11:32 AM Staff: 2 Weight : 66.60 pounds

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

B6

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
8/5/2014	C	B6	Phone Call Notes LMOM re: fecal negative
8/4/2014	L	2	SNAP Assays results from IDEXX VetLab In-clinic Laboratory Requisition ID: 11236 Posted Final Test Result Reference Range HW = Lyme = AP_spp = EC-EE = B6
8/4/2014	P	2	B6
8/4/2014	I	2	
8/4/2014	I	2	
8/4/2014	I	2	
8/4/2014	E	2	B6
8/4/2014	P	2	
8/4/2014	V	B6	Aug 4, 2014 03:27 PM Staff B6 Weight : 69.20 pounds Temperature : 102.1

8/4/2014 C **B6** Tech History-Canine - Closed Aug 05/2014

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
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B6

8/4/2014	L	2	Microbiology results from IDEXX Reference Laboratory Requisition ID: 2739-2 Posted Final Test Result Reference Range OVA&PARA SEE NOTES Ascn B6 FV FS CANINE
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B6

3/6/2014	I	B6	Simply snap the two disks together to puncture the safety seal. Part fur at the base of the tail and begin applying in a continuous motion up to the shoulder blades. Allow drying before interacting with your pet. http://www.vectrapet.com/how-to-apply/
3/6/2014	I		ALL FLEA PRODUCTS ARE INSECTICIDES. PLEASE FOLLOW THE DIRECTIONS ON THE LABEL. USING TOO MUCH CAN HARM YOUR PET. IF

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
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3/6/2014 P
3/6/2014 I
3/6/2014 I
3/6/2014 P

B6

YOU HAVE ANY QUESTIONS, PLEASE CALL THE HOSPITAL. Fleas continue to hatch from the environment for months after the adult population is eradicated. Continue to treat all pets in the household, as well as the environment, to be sure the flea infestation does not recur. Please call us if you are having trouble administering the product, or continue to see fleas.

B6

12/24/2013 C 2

Exam/Medical Notes

B6

12/24/2013 P 2

B6

12/24/2013 V 2

Dec 24, 2013 11:39 AM Staff: 2

Weight: 71.40 pounds

9/9/2013 PB 4
9/9/2013 PB 4

B6

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TG: Tentative med note, V: Vital signs

B6

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
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9/9/2013	C	4	Exam/Medical Notes B6
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9/9/2013	P	4	B6
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9/9/2013	C	B6	Technician Note B6
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9/9/2013	V	B6	Sep 9, 2013 03:05 PM Staff: B6 Weight : 64.00 pounds Temperature : B6 Pulse : B6 Respiration : B6 Alert/Attitude : B6 Pain Scale : B6 Appetite : B6 Urine Output : B6 Fecal Output : B6
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8/7/2013	L	2	SNAP Assays results from IDEXX VetLab In-clinic Laboratory Requisition ID: 9501 Posted Final Test Result Reference Range HW = B6 Lyme = B6 AP_spp = B6 EC-EE = B6
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B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PAPVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vitals/signs

B6

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
8/7/2013	E	2	Your pet was vaccinated with the Boehringer Ingelheim Duramune Lyme vaccine on the left side of the chest with a Serial # 522112A with expiration date July 12, 2014.
8/7/2013	P	2	B6
8/7/2013	E	2	B6

8/7/2013	C	B6	Tech History-Canine - Closed Aug 08/2013
B6			

8/7/2013	V	B6	Aug 7, 2013 03:41 PM Staff: B6
Weight	:	65.40 pounds	B6
Body Score (1-9)	:		
Temperature	:		
Pulse	:		
Respiration	:		
Alert/Attitude	:		
Pain Scale	:		
Mucous Membranes	:		
Capillary Refill	:		
Dental Score	:		
Appetite	:		
Urine Output	:		
Fecal Output	:		

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PAPVL: Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

B6

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

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
4/19/2013	C	B6	Client Communication - Closed Apr 20/2013 B6
4/18/2013	I	4	B6
4/18/2013	I	4	
4/18/2013	P	4	
4/18/2013	C	4	Exam/Medical Notes B6
4/18/2013	C	B6	Technician Note B6
4/18/2013	V	4	Apr 18, 2013 03:47 PM Staff: 4 Weight : 62.40 pounds
4/18/2013	L	4	Microbiology results from IDEXX Reference Laboratory Requisition ID: 2739-2 Posted Final Test Result Reference Range OVA&PARA SEE NOTES Asc'n B6

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
------	------	-------	---------

B6 FS CANINE
B6

2/25/2013 V **B6** Feb 25, 2013 04:37 PM Staff: **B6**
Weight : 59.20 pounds

2/25/2013 C **B6** Phone Call Notes
B6

2/25/2013 P 4 1.00 BOX **B6** (2670)
9/28/2012 P **B6**
9/28/2012 I **B6**
B6

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimate, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TG: Tentative med note, V: Vital signs

B6

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
------	------	-------	---------

8/23/2012	L	2	recommended by the American Heartworm Society (AHS) and the Companion Animal Parasite Council (CAPC) that these agents are used year-around in all areas of the U.S. SNAP Assays results from IDEXX VetLab In-clinic Laboratory Requisition ID: 7599 Posted Final Test Result Reference Range HW = B6 Lyme = E. canis = A. ph. =
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8/23/2012	E	2	B6
8/23/2012	I	2	
8/23/2012	I	2	
8/23/2012	I	2	

8/23/2012	C	B6	B6
-----------	---	-----------	-----------

8/21/2012	C	RT	Records received by Fax - CLOSED 06/23/2012 - Records received by Fax
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B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TG: Tentative med note, V: Vital signs

Client: **B6**
Patient:

Medical records

Patient History Report

Client:	B6	Patient:	B6	Breed:	GERMAN SHEPHERD
Phone:		Species:	CANTINE	Sex:	Spayed Female
Address:		Age:	B6	Color:	black and red

Date	Type	Staff	History
------	------	-------	---------

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimate, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative medl note, V: Vital signs

B6

Page 30 of 30

Date: 3/20/2019 11:15 AM

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

Diet Hx 3/22/19

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

Pet's name: **B6** Owner's name: **B6** Today's date: 3/22/19

- How would you assess your pet's appetite? (mark the point on the line below that best represents your pet's appetite)
 Example: **Poor** _____ | _____ **Excellent**
Poor _____ | _____ **Excellent**
- Have you noticed a change in your pet's appetite over the last 1-2 weeks? (check all that apply)
 Eats about the same amount as usual Eats less than usual Eats more than usual
 Seems to prefer different foods than usual Other _____
- Over the last few weeks, has your pet (check one)
 Lost weight Gained weight Stayed about the same weight Don't know
- Please list below 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 your pet is eating.

Examples are shown in the table – please provide enough detail that we could go to 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 cup	2x/day	Jan 2018
85% lean hamburger	microwaved	3 oz	1x/week	Jan 2015
Pupperoni original beef flavor	treat	1/2	1x/day	Aug 2015
Rawhide	treat	6 inch twist	1x/week	Dec 2015
ACANA IRVINGTON (MOSTLY RED MEAT FORMULA + FREE-RAN POULTRY FORMULA)	DRY	1 1/4 cup	2x DAY	2015
HOMELANDED LIQUID TREATS MADE OF 1 lb. CHICKEN LIVERS, 1-1/2 CUPS (OEN FLOUR), 3 EGGS + GARLIC POWDER)	TREAT		DAILY	
RAW MANSON BOWLS				

*Any additional diet information can be listed on the back of this sheet

- Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any other supplements)? Yes No If yes, please list which ones and give brands and amounts:

	Brand/Concentration	Amount per day
Taurine	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	_____
Carnitine	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	_____
Antioxidants	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	_____
Multivitamin	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	_____
Fish oil	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	_____
Coenzyme Q10	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	_____
Other (please list): Example: Vitamin C <u>GLUCOSAMINE</u>	<u>Nature's Bounty</u>	<u>500 mg tablets - 1 per day</u> <u>2 TABS/DAY</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
- How do you administer pills to your pet?
 I do not give any medications
 I put them directly in my pet's mouth without food
 I put them in my pet's dog/cat food
 I put them in a Pill Pocket or similar product
 I put them in foods (list foods): _____

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

CBC/Chem 3/22/19



Tufts Cummings School Of Veterinary Medicine

200 Westboro Road
North Grafton, MA 01536

DUPLICATE

Name/DOB: B6	Sex: SF	Provider: B6
Patient ID: B6	Age: B6	Order Location: V320559: Investigation into
Phone number:	Species: Canine	Sample ID: 1903220112
Collection Date: 3/22/2019 3:35 PM	Breed: German Shepherd	
Approval date: 3/22/2019 5:02 PM		

CBC (Research) (Advia)

DNOYES		Ref. Range/Females
WBC (ADVIA)		4.40-15.10 K/uL
RBC (Advia)		5.80-8.50 M/uL
Hemoglobin (ADVIA)		13.3-20.5 g/dL
Hematocrit (Advia)		39-55 %
MCV (ADVIA)		64.5-77.5 fL
MCH (ADVIA)		21.3-25.9 pg
MCHC (ADVIA)	H	31.9-34.3 g/dL
CHCM		
RDW (ADVIA)		11.9-15.2
Comments (Hematology)	Hemolysis present 0-1 platelets per High power field	

Microscopic Exam of Blood Smear (Advia)

DNOYES		Ref. Range/Females
Seg Neuts (%)		43-86 %
Lymphocytes (%)	L	7-47 %
Monocytes (%)		1-15 %
Eosinophils (%)		0-16 %
Nucleated RBC		0-1 /100 WBC

03/22/19 4:07 PM

White blood cell count has been corrected for the presence of nucleated red blood cells

Seg Neutrophils (Abs) Advia		2.800-11.500 K/uL
Lymphs (Abs) Advia	L	1.00-4.80 K/uL
Mono (Abs) Advia		0.10-1.50 K/uL
Eosinophils (Abs) Advia		0.00-1.40 K/uL
WBC Morphology		
Poikilocytosis		

Research Chemistry Profile - Small Animal (Cobas)

CSTCYR		Ref. Range/Females
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		2.3-4.2 g/dL
A/G Ratio		0.7-1.6
Sodium		140-150 mEq/L
Chloride		106-116 mEq/L

Sample ID: 1903220112/1
This report continues... (Final)

Reviewed by: _____

Client: **B6**
Patient:

CBC/Chem 3/22/19



Tufts Cummings School Of Veterinary Medicine

200 Westboro Road
North Grafton, MA 01536

DUPLICATE

Name/DOB:	B6	Sex:	SF	Provider:	B6
Patient ID:		Age:	B6	Order Location:	V320559: Investigation into
Phone number:		Species:	Canine	Sample ID:	1903220112
Collection Date:	3/22/2019 3:35 PM	Breed:	German Shepherd		
Approval date:	3/22/2019 5:02 PM				

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

		Ref. Range/Females
CSTCYR	B6	3.7-5.4 mEq/L
Potassium		14-28 mEq/L
tCO2(Bicarb)		8.0-19.0
AGAP		29-40
NA/K		0.10-0.30 mg/dL
Total Bilirubin		12-127 U/L
Alkaline Phosphatase		0-10 U/L
GGT		14-86 U/L
ALT		9-54 U/L
AST		22-422 U/L
Creatine Kinase		82-355 mg/dL
Cholesterol		30-338 mg/dl
Triglycerides		409-1250 U/L
Amylase	291-315 mmol/L	
Osmolality (calculated)		
Comments (Chemistry)		

Sample ID: 1903220112/2
REPRINT: Orig printing on 3/22/2019 (Final)

Reviewed by: _____
Page 2

Client: **B6**
Patient:

NT-proBNP 3/22/19

IDEXX Reference Laboratories

Client: **B6** Patient: EMI

Client: **B6**
Patient: **B6**
Species: CANINE
Breed: GERMAN_SHEPHERD
Gender: FEMALE SPAYED
Age: **B6**

Date: 03/22/2019
Requisition #: 1A
Accession #: 2303942774
Ordered by: RUSH

IDEXX VetConnect 1-888-433-9967
TUFTS UNIVERSITY
200 WESTBORO RD
NORTH GRAFTON, Massachusetts 01536
508-839-5395
Account #88933

CARDIOPET proBNP - CANINE

Test	Result	Reference Range	Low	Normal	High
CARDIOPET proBNP - CANINE	B6	0 - 900 pmol/L			B6

Comments

1. **B6**

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

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

Patient's at-home monitoring sheet 3/26/19

B6
 B6
 Tufts Patient ID: B6
 German Shepherd
 Birthdate: B6

HEART FAILURE MONITORING WORKSHEET

Date	Respiration		B6	B6	B6	B6	Appetite				Comments
	Rate/Minute	Time					Excellent	Good	Fair	Poor	
03/23/19	30	22:00					✓				No coughing, rested comfortably during day, slightly restless at night- moved from one spot to another for about an hour before falling asleep.
03/24/19	34	23:10					✓				Spent some time lying outside, seemed pretty comfortable throughout the day. Stool softer than normal.
03/25/19	34	07:00					✓				Food: 1/2 cup Acana & 3/4 cup Royal Canin Early Cardiac 2x day. Emi pooped once today at 7pm... stool was normal, formed.
	28	22:56									
03/26/19	30	10:45					✓				Food: 1/2 cup Acana & 3/4 cup Royal Canin Early Cardiac 2x day. Emi had accident last night, urinated in dog bed.

Respiration Rate: Count the number of breaths for 30 seconds and multiply times 2 to get the respiratory rate per minute. In dogs, obtain the respiratory rate when they are at rest and not panting. In cats get the respiratory rate at rest when they are not purring. *In animals with well controlled heart failure the breathing rate is often less than 35-40 breaths per minute.* When the breathing rate is climbing, or when there is more effort to the chest wall or belly muscles during breathing, then fluid is likely accumulating in the lungs and more furosemide may be indicated. Please bring this sheet with you to your next veterinary exam.

Client:
Patient:

B6

Vitals Results

3/22/2019 1:43:08 PM

Weight (kg)

25.9000

Client: **B6**
Patient:

ECG from Cardio

B6

3/22/2019 2:18:38 PM

Page 1 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

12 Lead: Standard Placement

B6

Client:
Patient:

B6

ECG from Cardio

B6

3/22/2019 2:18:38 PM

Page 2 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client: **B6**
Patient:

Patient History

03/20/2019 11:52 AM	Appointment
03/20/2019 01:33 PM	Appointment
03/22/2019 01:11 PM	UserForm
03/22/2019 01:13 PM	UserForm
03/22/2019 01:43 PM	Vitals
03/22/2019 01:43 PM	Purchase
03/22/2019 01:56 PM	Treatment
03/22/2019 02:43 PM	UserForm
03/22/2019 03:57 PM	Prescription
03/22/2019 04:00 PM	Prescription
03/22/2019 04:18 PM	Purchase
03/23/2019 09:47 AM	Email
03/27/2019 12:41 PM	Appointment

B6

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
--------------------------------	--------------------	------------	--------------	-----------------	-------------	------------

Client:
Patient:

B6

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Friday, 22 March 2019 13:43	Appointment: Cardiology Study	1.000	0.000	0.0000	0.0000	0.0000

Client:
Patient:

B6

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Friday, 22 March 2019 15:57	B6	60.000	0.390	28.4000	0.0000	0.0000

Client:
Patient:

B6

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Friday, 22 March 2019 16:00	B6	30.000	0.110	8.3000	0.0000	0.0000

Client:
Patient:

B6

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Friday, 22 March 2019 16:18	Pharmacy Finished	1.000	0.000	0.0000	0.0000	0.0000

B6

B6 Female (Spayed)

Canine German Shepherd Black/Red

Patient ID: B6

STANDARD CONSENT FORM

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

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

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

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

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

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

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

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

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

I understand that a FINANCE CHARGE will be applied to all accounts unpaid after 30 days. The FINANCE CHARGE is computed on a monthly rate of 1.33% per month, which is an annual percentage rate of 16% applied to the average daily balance outstanding, with a minimum fee of \$50.

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

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

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

Owner's name: Date: 3/22/2019

Owner's address:

Owner's Name Signature

Date

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

The owner of the animal as granted me authority to obtain medical treatment and to bind this owner to pay the veterinary medical services provided at Cummings School pursuant to the terms and conditions described above

Authorized Agent - Please Print

Agent's Signature

Street Address

Date

Town/City State Zip

Discharge Instructions

Patient

Name: B6

Species: Canine

Black/Red Female (Spayed) German Shepherd

Birthdate: B6

Owner

Name: B6

Address: B6

Patient ID: B6

Attending Cardiologist:

John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC

B6

Cardiology Resident:

B6

Cardiology Technician:

B6

Student: B6

Admit Date: 3/22/2019 1:09:07 PM

Discharge Date: 3/22/2019

Diagnoses: Dilated cardiomyopathy (DCM) with congestive heart failure, ventricular premature depolarizations

Diagnostic test results and findings:

- o **Echocardiogram findings:** B6
- o **ECG findings:** B6
- o **Labwork findings:** B6

Case summary:

B6 has been diagnosed with a primary heart muscle disease called dilated cardiomyopathy (DCM). This disease is more common in large and giant breed dogs and is characterized by thinning of the walls of the heart, reduced cardiac pump function, and enlargement of the upper chambers of the heart. Many dogs with DCM will also have significant arrhythmias which can be life-threatening and also require medical management. The heart enlargement has now progressed to the point of congestive heart failure, meaning that fluid is backing up into the lungs (pulmonary edema). Unfortunately this is a progressive disease and we cannot reverse the changes to the heart muscle, however we can use cardiac medications and some changes to the diet to make your dog comfortable and have her breathing easier.

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.
- In general, most dogs with heart failure that is well controlled have a breathing rate at rest of less than 35 breaths per minute. In addition, the breathing effort, noted by the amount of belly wall motion used for each breath, is fairly minimal if heart failure is controlled.
- An increase in breathing rate or effort will usually mean that you should give an extra dose of furosemide (Lasix). If difficulty breathing is not improved by within 30-60 minutes after giving extra furosemide then we recommend giving 1 more dose and if that does not help then a recheck exam be scheduled and/or that your dog be evaluated by an emergency clinic.
- There are instructions for monitoring breathing, and a form to help keep track of breathing rate and drug doses, on the Tufts HeartSmart web site (<http://vet.tufts.edu/heartsmart/at-home-monitoring/>).
- We also want you to watch for weakness or collapse, a reduction in appetite, worsening cough, or distention of the belly as these findings indicate that we should do a recheck examination.
- If you have any concerns, please call or have your dog evaluated by a veterinarian. Our emergency clinic is open 24 hours/day.

Recommended Medications:

B6

We might add in a medication for arrhythmia in the future, especially if **B6** has a collapse or if the ECG shows worsening arrhythmia - a drug like **B6** would likely be added.

Diet suggestions:

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

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

- The FDA is currently investigating an apparent association between diet and a type of heart disease called dilated cardiomyopathy. The exact cause is still unclear, but it appears to be associated with boutique diets and those containing exotic ingredient or are grain-free. Therefore, we are currently recommending that dogs do not eat these types of diets.
- We recommend switching B6 to commercial diet made by a well-established company that is not grain-free and does not contain any exotic ingredients, such as kangaroo, duck, lamb, venison, lentils, peas, beans, buffalo, tapioca, barley, and chickpeas.
- The FDA issued a statement regarding this issue (<https://www.fda.gov/AnimalVeterinary/NewsEvents/CVMUpdates/uom613305.htm>) and a recent article published by Dr. Lisa Freeman on the Cummings School's Pet Foodology blog can further explain these findings (<http://vetnutrition.tufts.edu/2018/06/a-broken-heart-risk-of-heart-disease-in-boutique-or-grain-free-diets-and-exotic-ingredients/>).
- Our nutritionists have compiled a list of dog foods that are good options for dogs with heart disease.

Dry Food Options:

Royal Canin Early Cardiac (veterinary diet)

Royal Canin Boxer

Purina Pro Plan Adult Weight Management

Purina Pro Plan Bright Mind Adult Small Breed Formula

Canned Food Options:

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

Royal Canin Mature 8+

Exercise Recommendations:

For the first 7 to 10 days after starting medications for heart failure we recommend very limited activity. Leash walking only is ideal, and short walks to start. Once the heart failure is better controlled, then slightly longer walks are acceptable.

However, if you find that B6 is lagging behind or needs to stop on a walk then this was too long a walk and shorter walks are advised in the future. Repetitive or strenuous high energy activities (repetitive ball chasing, running fast off-leash, etc.) are generally not advised at this stage of heart failure.

Recheck Visits:

A recheck visit is recommended in 1-2 weeks after any medication adjustments are made. At this visit we will check your dog's breathing effort and heart function, do a blood test to recheck kidney values, and recheck an ECG. A recheck cardiac exam for the study and an echocardiogram is recommended in 3 months.

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

Please visit our HeartSmart website for more information

<http://vet.tufts.edu/heartsmart/>

Prescription Refill Disclaimer:

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

Ordering Food:

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

Clinical Trials:

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

Case: B6

Owner: B6

Discharge Instructions

AliveCor/Kardia Handout

If you have an iPhone or Android, you may want to explore the option of purchasing an AliveCor/Kardia ECG monitor which will allow you to record and email your pet's heart rate and rhythm at home.

The device (Kardia) can be purchased at www.alivecor.com or www.amazon.com. The app for your phone is free.

If you have an iPhone:

- Search for 'Veterinary AliveECG' app in the Apple Store
- You will need to sign-up for an account
- Make sure to have your pet's name in the information so we know whom it is from
- If the app asks for permission to access headphone port/speaker port, say **'OK/allow'**

If you have an Android:

- Search for 'Kardia' app in the Google Playstore
- You will need to sign-up for an account.
- Make sure to have your pet's name in the information so we know whom it is from
- If the app asks for permission to access headphone port/speaker port, say **'OK/allow'**
- Once downloaded, it will require you to send a "test ECG" for activation of the app. Just place your fingers on the silver sensors and let it record
- If the test ECG is unable to record, try again, with less movement. If it still fails, then your phone is not compatible with the device

Recording an ECG:

- Apply rubbing alcohol (soaked cotton ball will work) to the chest region behind your pet's elbow (where you can feel the heartbeat)
- Enough to wet the regions where both silver boxes will touch the animal
- If your pet is fluffy, you may have to clip a small patch of fur to allow for better contact
- Hold the device against your pet's chest with the silver areas being up and down (vertical) in contact with the animal
- With the app open, hold your phone near (within a few inches) the device.
- There is a signal bar in the upper left corner of the app to show whether it detects the device. If there are no bars then move your phone around/get closer to the device until they appear.
- Once you see a recording, hold everything in place for at least 30 seconds if possible.
- *The human Kardia app will attempt to interpret the ECG; just ignore this as it is not always accurate.*
- *The heart rate that the apps report is also not always accurate.*

Saving an ECG:

- The app will automatically save the ECG as long as the recording is long enough (>20seconds)
- You can click on the ID (box with pencil icon) in the Veterinary AliveECG app to add your pet's name

Emailing an ECG:

- If you are in the recording screen on the Veterinary AliveECG app, click on "ECGs" to see the list of saved ECGs
- If you are in the home screen on the Kardia app, click "History".
- Select the ECG you wish to send. Go to "Share". Select "Email PDF". **SKIP** the Password protect feature and select the email app you wish to send it by (Gmail, outlook, yahoo, etc). **You must have a working email on your phone for this to work.**
- Select an ECG that you wish to send
- Click the mail icon (either a box with arrow or a letter symbol), and select "Email"
- Email to: cardiovet@tufts.edu (*only monitored Monday-Friday 9AM-5PM*)

Cummings Veterinary Medical Center

AT TUFTS UNIVERSITY

Cardiology Liaison: 508-887-4696

B6

Patient ID: B6

B6 canine

B6

Female (Spayed) German

Shepherd

Black/Red

Cardiology Appointment Report ENROLLED IN DCM DIET STUDY

Date: 3/22/2019

Attending Cardiologist:

John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC (primary)

B6

Cardiology Resident:

B6

Cardiology Technician:

B6

Student: B6

Presenting Complaint: referred for evaluation of DCM and for grain-free diet study

Concurrent Diseases: none reported

General Medical History:

Last weekend, had difficulty breathing on a walk, described as wheezing (very brief) and then seemed to be okay. Next morning, the same thing happened. Took in to rDVM on Monday where she was diagnosed with DCM. Usually a "lowkey dog". Owner noted increased breathing effort during rest (quick, short). Nothing else out of the ordinary. Prior history of infected anal gland, resolved with antibiotics by rDVM. Currently on heartworm preventative.

No "wheezing" spells since starting the B6 but still tachypneic.

Eating and drinking are normal.

Diet and Supplements:

Acana heritage red meat formula (grain-free) has been on for a few years (occasionally a different)
Eats homemade liver treats in treat balls (chicken mixed with cornflour, eggs, garlic)
Occasional raw marrow bone

Cardiovascular History:

Prior CHF diagnosis? Y
Prior heart murmur? N
Prior ATE? N
Prior arrhythmia? Y, VPCs noted on ECG
Monitoring respiratory rate and effort at home? Y, has had increased effort during rest (not counting)
Cough? Y
Shortness of breath or difficulty breathing? Y
Syncope or collapse? N
Sudden onset lameness? N
Exercise intolerance? Hard to say, she's usually low energy - has been sometimes avoiding going upstairs when she usually would

Current Medications Pertinent to CV System:

Medication: B6
Formulation/Tab Size: B6
Administration Frequency: B6
Need refills?

Medication: B6
Formulation/Tab Size: B6
Administration Frequency: B6
Need refills?

Cardiac Physical Examination:

B6

Muscle condition: muscle loss mostly in the pelvic area

- | | |
|--|--|
| <input type="checkbox"/> Normal | <input type="checkbox"/> Moderate cachexia |
| <input checked="" type="checkbox"/> Mild muscle loss | <input type="checkbox"/> Marked cachexia |

Cardiovascular Physical Exam:

Murmur Grade:

<input checked="" type="checkbox"/> None to	<input type="checkbox"/> IV/VI
<input checked="" type="checkbox"/> I/VI	<input type="checkbox"/> V/VI
<input type="checkbox"/> II/VI	<input type="checkbox"/> VI/VI
<input type="checkbox"/> III/VI	

Murmur location/description: left apical

Jugular vein:

<input checked="" type="checkbox"/> Bottom 1/3 of the neck	<input type="checkbox"/> 1/2 way up the neck
<input type="checkbox"/> Middle 1/3 of the neck	<input type="checkbox"/> Top 2/3 of the neck

Arterial pulses:

<input type="checkbox"/> Weak	<input type="checkbox"/> Bounding
<input checked="" type="checkbox"/> Fair	<input type="checkbox"/> Pulse deficits
<input type="checkbox"/> Good	<input type="checkbox"/> Pulsus paradoxus
<input type="checkbox"/> Strong	<input type="checkbox"/> Other:

Arrhythmia:

- None
- Sinus arrhythmia
- Premature beats

- Bradycardia
- Tachycardia

Gallop: S3

- Yes
- No
- Intermittent

- Pronounced
- Other: Impressive gallop

Pulmonary assessments:

- Eupneic
- Mild dyspnea
- Marked dyspnea
- Normal BV sounds

- Pulmonary crackles
- Wheezes
- Upper airway stridor

Abdominal exam:

- Normal - minimal exam
- Hepatomegaly
- Abdominal distension

- Mild ascites
- Marked ascites

Problems:

DCM with CHF

Mildly increased effort of breathing (likely secondary to CHF vs less likely pulmonary disease vs PTE vs pulmonary hypertension)

Diagnostic plan:

- Echo cardiogram
- Chemistry profile
- ECG
- Renal profile
- Blood pressure

- Dialysis profile
- Thoracic radiographs +/-
- NT-proBNP
- Troponin I
- Other tests:

B6

Radiographic findings: None available at time of exam

Assessment and recommendations:

Dilated cardiomyopathy with mild pulmonary edema today and some ventricular arrhythmia. **B6**

B6

prescribed), enter into DCM diet study, start taurine pending taurine levels, and we talked for some time about the pros and cons of starting an antiarrhythmic. The dog did not have collapse and sustained arrhythmia was not documented. Discussed Holter or aserial alivecor readings. **B6**

B6

Get long lead II ECG and recheck renal values and electrolytes in about 10 days and then consider increasing t **B6** (10 mg AM and 5 mg PM). **B6**

on current bloods (liver enzymes) and recheck ECG. Discussed diet change.

Heart Failure Classification Score:

ISACHC Classification:

- Ia
- Ib
- II to
- IIIa
- IIIb

ACVIM Classification:

- A
- B1
- B2
- C
- D

M-Mode

IVSd	om
LVIDd	om
LVPWd	om
IVSs	om
LVIDs	om
LVPWs	om
EDV(Teich)	ml
ESV(Teich)	ml
EF(Teich)	%
%FS	%
SV(Teich)	ml
Ao Diam	om
LA Diam	om
LA/Ao	
Max LA	om
TAPSE	om
EPSS	om
B6	
<u>M-Mode Normalized</u>	
IVSdN	{0.290 - 0.520}
LVIDdN	{1.350 - 1.730} !
LVPWdN	{0.330 - 0.530}
IVSsN	{0.430 - 0.710}

LVIDsN
LVPWsN
Ao Diam N
LA Diam N

{0.790 - 1.140} !
{0.530 - 0.780} !
{0.680 - 0.890} !
{0.640 - 0.900} !

2D
SA LA
Ao Diam
SA LA / Ao Diam
IVSd
LVIDd
LVPWd
EDV(Teich)
IVSs
LVIDs
LVPWs
ESV(Teich)
EF(Teich)
%FS
SV(Teich)
LV Major
LV Minor
Sphericity Index
LVLd LAX
LVAd LAX
LVEDV A-L LAX
LVEDV MOD LAX
LVLs LAX
LVA s LAX
LVESV A-L LAX
LVESV MOD LAX
HR
EF A-L LAX
LVEF MOD LAX
SV A-L LAX
SV MOD LAX
CO A-L LAX
CO MOD LAX
LA Area
R-R
HR
CO A-L LAX
CO MOD LAX

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l/min

B6

Doppler
MR Vmax
MR maxPG
MV E Vel
MV DecT
MV Dec Slope

m/s
mmHg
m/s
ms
m/s

MVA Vel
MV E/A Ratio
E'
E/E'
A'
S'
AV Vmax
AV maxPG
PV Vmax
PV maxPG

B6

m/s

m/s

m/s
m/s
mmHg
m/s
mmHg

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: 4/11/2019 9:16:05 PM
Subject: Tuff's cases-FW: ACANA - Heritage Red Meat Formula Dog Food (Grain-free) [B6] EON-384833
Attachments: 2065712-report.pdf; 2065712-attachments.zip

Echo is likely, but the dog collapsed and died [B6] Not sure if necropsy done.

David Rotstein, DVM, MPVM, Dipl. ACVP
CVM Vet-LIRN Liaison
CVM OSC/DC/CERT
7519 Standish Place

[B6]



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From: Related PFR Event <pfrsignificantactivitycreation@fda.hhs.gov>
Sent: Thursday, April 11, 2019 4:53 PM
To: Carey, Lauren <Lauren.Carey@fda.hhs.gov>; Cleary, Michael * <Michael.Cleary@fda.hhs.gov>; HQ Pet Food Report Notification <HQPetFoodReportNotification@fda.hhs.gov>; usha.gulati@doveltech.com
Subject: ACANA - Heritage Red Meat Formula Dog Food (Grain-free): [B6] EON-384833

A PFR Report has been received and Related PFR Event [EON-384833] has been created in the EON System.

A "PDF" report by name "2065712-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 "2065712-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-384833
ICSR #: 2065712
EON Title: Related PFR Event created for ACANA - Heritage Red Meat Formula Dog Food (Grain-free); 2065712

AE Date	03/15/2019	Number Fed/Exposed	2
Best By Date		Number Reacted	1

Animal Species	Dog	Outcome to Date	Died Other
Breed	Shepherd Dog - German		
Age	B6 Years		
District Involved	PFR-New England DO		

Product information

Individual Case Safety Report Number: 2065712

Product Group: Pet Food

Product Name: ACANA - Heritage Red Meat Formula Dog Food (Grain-free)

Description: 3/15/2019 - Acute onset of difficulty breathing on walk, increased resp rate, wheezing and short of breath. Diagnosed with DCM and CHF **B6** Patient suddenly collapsed, within seconds of collapse patient died.

Submission Type: Followup

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

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

Number of Animals Treated With Product: 2

Number of Animals Reacted With Product: 1

Product Name	Lot Number or ID	Best By Date
ACANA - Heritage Red Meat Formula Dog Food (Grain-free)		

This report is linked to:

Initial EON Event Key: EON-383914

Initial ICSR: 2065085

Sender information

B6

USA

Owner information

B6

USA

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

B6

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

B6

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

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Report Details - EON-384833

ICSR:	2065712
Type Of Submission:	Followup
Report Version:	FPSR.FDA.PETF.V.V1
Type Of Report:	Adverse Event (a symptom, reaction or disease associated with the product)
Reporting Type:	Voluntary
Report Submission Date:	2019-04-11 16:39:13 EDT
Initial Report Date:	04/01/2019
Parent ICSR:	2065085
Follow-up Report to FDA Request:	Yes

Reported Problem:	Problem Description:	3/15/2019 - Acute onset of difficulty breathing on walk, increased resp rate, wheezing and short of breath. Diagnosed with DCM and CHF. Patient suddenly collapsed, within seconds of collapse patient died. B6
	Date Problem Started:	03/15/2019
	Concurrent Medical Problem:	No
	Outcome to Date:	Died Other
	Date of Death:	B6

Product Information:	Product Name:	ACANA - Heritage Red Meat Formula Dog Food (Grain-free)
	Product Type:	Pet Food
	Lot Number:	
	Package Type:	BAG
	Product Use Information:	
	Manufacturer /Distributor Information:	
	Purchase Location Information:	

Animal Information:	Name:	
	Type Of Species:	Dog
	Type Of Breed:	Shepherd Dog - German
	Gender:	Female
	Reproductive Status:	Neutered
	Weight:	25.9 Kilogram
	Age:	B6 years
	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: B6	
	Phone: B6	
	Address: B6 United States	

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 Road North Grafton Massachusetts 01536 United States		
Type of Veterinarian:	Referred veterinarian			
Permission to Release Records to FDA:	Yes			
Sender Information:	Name:	[Redacted]		
	Address:	[Redacted]		
		United States		
	Contact:	Phone:	[Redacted]	
		Email:	[Redacted]	
	Permission To Contact Sender:	Yes		
	Preferred Method Of Contact:	Email		
Reported to Other Parties:	None			
Additional Documents:	Attachment:	Troponin 4-4-19.pdf		
	Description:	Lab results		
	Type:	Laboratory Report		
	Attachment:	Diet hx 4-4-19 and owners patient log.pdf		
	Description:	Patient notes		
	Type:	Medical Records		
	Attachment:	Chem 4-4-19.pdf		
	Description:	Lab results		
	Type:	Laboratory Report		

B6**B6**

Tufts Patient ID: 441842

German Shepherd

Birthdate:

B6**HEART FAILURE MONITORING WORKSHEET**

Date	Respiration		B6								Appetite				Comments
	Rate/Minute	Time	AM	PM	AM	PM	AM	PM	AM	PM	Excellent	Good	Fair	Poor	
03/23/19	30	22:00	50mg	50mg	10mg	-	7.5mg	7.5mg	500mg	500mg	✓				No coughing, rested comfortably during day, slightly restless at night- moved from one spot to another for about an hour before falling asleep.
03/24/19	34	23:10	50mg	50mg	10mg	-	7.5mg	7.5mg	500mg	500mg	✓				Spent some time lying outside, seemed pretty comfortable throughout the day. Stool softer than normal.
03/25/19	34	07:00	50mg	50mg	10mg	-	7.5mg	7.5mg	500mg	500mg	✓				Food: 3/4 cup Acana & 1/2 cup Royal Canin Early Cardiac 2x day. Emi pooped once today at 7pm. Stool was normal, formed. Squints a bit when outside.
"	28	22:56													
03/26/19	30	10:45	50mg	50mg	10mg	-	7.5mg	7.5mg	500mg	500mg	✓				Food: 3/4 cup Acana & 1/2 cup Royal Canin Early Cardiac 2x day. Emi had accident last night, urinated in dog bed.
03/27/19	32	08:26	50mg	50mg	10mg	-	7.5mg	7.5mg	500mg	500mg	✓				Food: 1/2 cup Acana & 3/4 cup Royal Canin Early Cardiac 2x day. A little more active and engaging.
03/28/19	34	23:15	50mg	50mg	10mg	-	7.5mg	7.5mg	500mg	500mg	✓				Food: 1/2 cup Acana & 3/4 cup Royal Canin Early Cardiac 2x day. Slept through night, about 6 hours, no accidents.
03/29/19	30	22:55	50mg	50mg	10mg	-	7.5mg	7.5mg	500mg	500mg	✓				Food: 1/4 cup Acana & 1 cup Royal Canin Early Cardiac 2x day. Urinated while asleep last night. Acting a little more like herself, follows Pandora outside.
03/30/19	30	23:16	50mg	50mg	10mg	-	7.5mg	7.5mg	500mg	500mg		✓			Food: 1/4 cup Acana & 1 cup Royal Canin Early Cardiac 2x day. Ate most of her food this evening.
03/31/19	28	19:32	50mg	50mg	10mg	-	7.5mg	7.5mg	500mg	500mg		✓			Food: 1/4 cup Acana & 1 cup Royal Canin Early Cardiac 2x day. Left a little food in her bowl in the morning and evening. Followed Pandora around yard.
04/01/19	24	23:02	50mg	50mg	10mg	-	7.5mg	7.5mg	500mg	500mg	✓				Food: 1-1/4 cup Royal Canin Early Cardiac 2x day.
04/02/19	16	22:53	50mg	50mg	10mg	-	7.5mg	7.5mg	500mg	500mg		✓			Food: 1-1/4 cup Royal Canin Early Cardiac 2x day. Loose stool around 7pm. Didn't eat all her food am or pm.
"	16	22:56													
04/03/19	20	15:04	50mg	50mg	10mg	-	7.5mg	7.5mg	500mg	500mg		✓			Food: 1-1/4 cup Royal Canin Early Cardiac 2x day. Loose stool 12:30pm. Alert, more active when outside. Didn't eat all her food am or pm.
"	32	21:41													
04/04/19			50mg		10mg		7.5mg		500mg		✓				Food: 1-1/4 cup Royal Canin Early Cardiac 2x day.

Respiration Rate: Count the number of breaths for 30 seconds and multiply times 2 to get the respiratory rate per minute. In dogs, obtain the respiratory rate when they are at rest and not panting. In cats get the respiratory rate at rest when they are not purring. *In animals with well controlled heart failure the breathing rate is often less than 35-40 breaths per minute.* When the breathing rate is climbing, or when there is more effort to the chest wall or belly muscles during breathing, then fluid is likely accumulating in the lungs and more furosemide may be indicated. Please bring this sheet with you to your next veterinary exam.

CARDIOLOGY DIET HISTORY FORM

29.7kg

Please answer the following questions about your pet

Pet's name **B6** Owner's name **B6** Today's date: 4/4/19

1. How would you assess your pet's appetite? (mark the point on the line below that best represents your pet's appetite)
 Example: Poor _____ Excellent
 Poor _____ Excellent

2. Have you noticed a change in your pet's appetite over the last 1-2 weeks? (check all that apply)
 Eats about the same amount as usual Eats less than usual Eats more than usual
 Seems to prefer different foods than usual Other _____

3. Over the last few weeks, has your pet (check one)
 Lost weight Gained weight Stayed about the same weight Don't know

4. Please list below ALL pet foods, people food, treats, snack, dental 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.

Examples are shown in the table – please provide enough detail that we could go to 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 cup	2x/day	Jan 2018
85% lean hamburger	microwaved	3 oz	1x/week	Jan 2015
Pupperoni original beef flavor	treat	1/2	1x/day	Aug 2015
Rawhide	treat	6 inch twist	1x/week	Dec 2015
ROYAL CANIN EARLY CARDIAC		1 1/4 cup	2x/day	
LIVER TREATS - HOMEMADE - JUST CHICKEN LIVER, EGGS + CORNFLOUR		1/4 cup	2x/day	

*Any additional diet information can be listed on the back of this sheet

5. Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any other supplements)? Yes No If yes, please list which ones and give brands and amounts:

	Brand/Concentration	Amount per day
Taurine	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No _____	_____
Carnitine	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	_____
Antioxidants	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	_____
Multivitamin	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	_____
Fish oil	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	_____
Coenzyme Q10	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	_____
Other (please list):		
Example: Vitamin C	Nature's Bounty	500 mg tablets – 1 per day
glucosamine	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

6. How do you administer pills to your pet?
 I do not give any medications
 I put them directly in my pet's mouth without food
 I put them in my pet's dog/cat food
 I put them in a Pill Pocket or similar product
 I put them in foods (list foods): _____



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

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

Phone: 508 887 4669
 Fax: 9 508 839 7936
 Animal Name:
 Owner Name: **B6**
 Species: Canine
 Date Received: Apr 04, 2019

Clinical Pathology Tracking Number: 441842

GI Lab Accession: **B6**

Test	Result	Control Range	Assay Date
Ultra-Sensitive Troponin I Fasting	B6 ng/mL	≤0.06	04/05/19

B6

Comments:

**Important
Notices:**

Internal Medicine Conference

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

Ongoing studies

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

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

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

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

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

Feline Chronic Pancreatitis- Cats with chronic pancreatitis for more than 2 weeks and fPLI >10 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

From: PFR Event <pfpreventcreation@fda.hhs.gov>
To: Cleary, Michael *; HQ Pet Food Report Notification; [B6]
Sent: 4/22/2019 5:16:54 PM
Subject: Blue Buffalo Life Protection Formula Adult Chicken Recipe Grain-Free Dry Dog Food; [B6] EON-385697
Attachments: 2066104-report.pdf; 2066104-attachments.zip

A PFR Report has been received and PFR Event [EON-385697] has been created in the EON System.

A "PDF" report by name "2066104-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 "2066104-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-385697

ICSR #: 2066104

EON Title: PFR Event created for Blue Buffalo Life Protection Formula Adult Chicken Recipe Grain-Free Dry Dog Food, Blue Buffalo Life Protection Adult Dog Food Natural Chicken & Brown Rice; 2066104

AE Date	[B6]	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	Retriever - Golden		
Age	12 Years		
District Involved	PFR-New England DO		

Product information

Individual Case Safety Report Number: 2066104

Product Group: Pet Food

Product Name: Blue Buffalo Life Protection Formula Adult Chicken Recipe Grain-Free Dry Dog Food, Blue Buffalo Life Protection Adult Dog Food, Natural Chicken & Brown Rice

Description: Presented to rDVM 4/15 and 4/16 for a non-productive cough x 1 month and decreased appetite. O suspected cough was due to seasonal allergies as patient has a hx of allergies. RDVM was suspicious of pericardial effusion vs DCM. Enlarged heart on radiograph. Patient was rx'd [B6] and referred to Tufts

for further evaluation. Diet history: Blue Buffalo chicken limited ingredient x 1 year. Previously eating Blue Buffalo chicken grain-free since 2010. Echo revealed 3+ MR, reduced contractile function, trace pericardial effusion, ruptured chordae, no obvious heart base mass, no obvious RAA mass. Suspect CHF

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
Blue Buffalo Life Protection Adult Dog Food, Natural Chicken & Brown Rice		
Blue Buffalo Life Protection Formula Adult Chicken Recipe Grain-Free Dry Dog Food		

Sender information

B6

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

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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-385697		
ICSR:	2066104	
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:	2019-04-22 13:04:20 EDT	
Reported Problem:	Problem Description: Presented to rDVM 4/15 and 4/16 for a non-productive cough x 1 month and decreased appetite. O suspected cough was due to seasonal allergies as patient has a hx of allergies. RDVM was suspicious of pericardial effusion vs DCM. Enlarged heart on radiograph. Patient was rx'd: <u>Be</u> and referred to Tufts for further evaluation. Diet history: Blue Buffalo chicken limited ingredient x 1 year. Previously eating Blue Buffalo chicken grain-free since 2010. Echo revealed 3+ MR, reduced contractile function, trace pericardial effusion, ruptured chordae, no obvious heart base mass, no obvious RAA mass. Suspect CHF	
	Date Problem Started: 03/17/2019	
	Concurrent Medical Problem: No	
	Outcome to Date: Stable	
Product Information:	Product Name: Blue Buffalo Life Protection Adult Dog Food, Natural Chicken & Brown Rice	
	Product Type: Pet Food	
	Lot Number:	
	Package Type: BAG	
	Product Use Information:	
	Manufacturer /Distributor Information:	
	Purchase Location Information:	
	Product Name: Blue Buffalo Life Protection Formula Adult Chicken Recipe 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:	
	Type Of Species: Dog	
	Type Of Breed: Retriever - Golden	
	Gender: Male	
	Reproductive Status: Neutered	
	Weight: 38 Kilogram	
	Age: 12 Years	
	Assessment of Prior Health: Excellent	
	Number of Animals Given the Product: 1	
	Number of Animals Reacted: 1	
	Owner Information: <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="text-align: center;">Owner</td> <td>Yes</td> </tr> </table>	Owner
Owner	Yes	

	Information provided:							
	Contact:	<table border="1"> <tr> <td>Name:</td> <td>B6</td> </tr> <tr> <td>Phone:</td> <td></td> </tr> <tr> <td>Email:</td> <td>B6</td> </tr> </table>	Name:	B6	Phone:		Email:	B6
Name:	B6							
Phone:								
Email:	B6							
	Address:	<table border="1"> <tr> <td>B6</td> </tr> <tr> <td>United States</td> </tr> </table>	B6	United States				
B6								
United States								
Healthcare Professional Information:	Practice Name:	Tufts Cummings School of Veterinary Medicine						
	Contact:	<table border="1"> <tr> <td>Name:</td> <td>B6</td> </tr> <tr> <td>Phone:</td> <td>B6</td> </tr> <tr> <td>Email:</td> <td>B6</td> </tr> </table>	Name:	B6	Phone:	B6	Email:	B6
	Name:	B6						
	Phone:	B6						
	Email:	B6						
	Address:	200 Westboro Road North Grafton Massachusetts 01536 United States						
Practice Name:	Tufts University							
Contact:	<table border="1"> <tr> <td>Name:</td> <td>Lisa Freeman</td> </tr> <tr> <td>Phone:</td> <td>508-887-4523</td> </tr> <tr> <td>Email:</td> <td>lisa.freeman@tufts.edu</td> </tr> </table>	Name:	Lisa Freeman	Phone:	508-887-4523	Email:	lisa.freeman@tufts.edu	
Name:	Lisa Freeman							
Phone:	508-887-4523							
Email:	lisa.freeman@tufts.edu							
Address:	200 Westboro Rd North Grafton Massachusetts 01536 United States							
	Permission to Release Records to FDA:	Yes						
Sender Information:	Name:	B6						
	Address:	200 Westboro Road North Grafton Massachusetts 01536 United States						
	Contact:	<table border="1"> <tr> <td>Phone:</td> <td>B6</td> </tr> <tr> <td>Email:</td> <td>B6</td> </tr> </table>	Phone:	B6	Email:	B6		
	Phone:	B6						
	Email:	B6						
	Permission To Contact Sender:	Yes						
Preferred Method Of Contact:	Email							
Reported to Other Parties:	None							
Additional Documents:	Attachment:	Tufts Medical record.pdf						
	Description:	Medical records						
	Type:	Medical Records						

Medical Record for 4/17/2019

Client: [B6]
Address: [B6]

Patient: [B6]
Breed: Golden Retriever
DOB: [B6]

Species: Canine
Sex: Male
(Neutered)

Home Phone: [B6]
Work Phone: () -
Cell Phone: [B6]

Referring Information

[B6]

Client: [B6]
Patient: [B6]

Initial Complaint:

Cardiology New - possibly going to enroll in DCM study

SOAP Text Apr 17 2019 1:32PM - Rush, John

Disposition/Recommendations

Client:
Patient:

B6

Client: **B6**
 Patient:

Cummings
Veterinary Medical Center
 AT TUFTS UNIVERSITY

Foster Hospital for Small Animals

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

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

Patient: **B6**
 Species: Canine
 Breed: Golden Retriever
 Sex: Male (Neutered)
 Age: **B6** Years Old

Lab Results Report

CBC, Comprehensive, Sm Animal (Re 4/17/2019 3:28:16 PM **Accession ID: B6**

Test	Results	Reference Range	Units
RDW (ADVIA)	B6	11.9 - 15.2	
MPV (ADVIA)		8.29 - 13.2	fl
RETICS (ABS) ADVIA		14.7 - 113.7	K/uL
PDW		0 - 0	%
MCVR		0 - 0	fl
WBC (ADVIA)		4.4 - 15.1	K/uL
HGB(ADVIA)		13.3 - 20.5	g/dL
HCT(ADVIA)		39 - 55	%
CHR		0 - 0	pg
MCHC(ADVIA)		31.9 - 34.3	g/dL
CHCM		0 - 0	g/dl
PLT(ADVIA)		173 - 486	K/uL
MCH(ADVIA)		21.3 - 25.9	pg
RBC(ADVIA)		5.8 - 8.5	M/uL
MCV(ADVIA)		64.5 - 77.5	fL
RETIC(ADVIA)		0.2 - 1.6	%
PLTCRT		0.129 - 0.403	%

Microscopic Exam of Blood Smear (A 4/17/2019 3:28:16 PM **Accession ID: B6**



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

Test	Results	Reference Range	Units
WBC MORPHOLOGY		0 - 0	
No Morphologic Abnormalities			
SEGS (AB)ADVIA	B6	2.8 - 11.5	K/uL
SEGS%		43 - 86	%
RBC MORPHOLOGY		0 - 0	
No morphologic abnormalities			
L YMPHS%		7 - 47	%
L YMPHS (ABS)ADVIA		1 - 4.8	K/uL
MONOS (ABS)ADVIA		0.1 - 1.5	K/uL
MONOS%		1 - 15	%
EOS%		0 - 16	%
EOS (ABS)ADVIA		0 - 1.4	K/uL

Research Chemistry Profile - Small A 4/17/2019 3:28:16 PM **Accession ID: B6**

Test	Results	Reference Range	Units
SODIUM	B6	140 - 150	mEq/L
ALT		14 - 86	U/L
UREA		8 - 30	mg/dL
POTASSIUM		3.7 - 5.4	mEq/L
ALK PHOS		12 - 127	U/L
AGAP		8 - 19	
A/G RATIO		0.7 - 1.6	
CREATININE		0.6 - 2	mg/dL
CHLORIDE		106 - 116	mEq/L
TRIGLYCERIDES		30 - 338	mg/dl
ALBUMIN		2.8 - 4	g/dL
MAGNESIUM 2+		1.8 - 3	mEq/L
T BILIRUBIN		0.1 - 0.3	mg/dL
GLUCOSE		67 - 135	mg/dL
NA/K		29 - 40	
PHOSPHORUS		2.6 - 7.2	mg/dL
AST		9 - 54	U/L
CK		22 - 422	U/L
AMYLASE		409 - 1250	U/L
GGT		0 - 10	U/L
OSMOLALITY (CALCULATED)	291 - 315	mmol/L	



Client: **B6**
Patient:

CHOLESTEROL	B6	82 - 355	mg/dL
tCO2 (BICARB)		14 - 28	mEq/L
CALCIUM2		9.4 - 11.3	mg/dL
GLOBULINS		2.3 - 4.2	g/dL
T. PROTEIN		5.5 - 7.8	g/dL



5/29

B6

Printed Monday, April 22, 2019

Client:
Patient:

B6

RX **B6** give Tab 1 in AM, 1/2 in PM

Tufts University
Foster Hospital for Small Animals
Hospital for Large Animals
55 Willard Street • North Grafton, MA 01536 • (508) 839-5395

Patient:
Owner:
Address:

B6



PARTIAL FILL UPON PATIENT REQUEST

SECURITY FEATURES ON BACK

B6

Signature

John Rush DVM

Please Print

DEA #: _____

License #: _____

INTERCHANGE IS MANDATED UNLESS THE
PRACTITIONER INDICATES "NO SUBSTITUTION"
IN ACCORDANCE WITH THE LAW

Empty rectangular box for additional information or notes.

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

Diet Hx **B6**

B6

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

Pet's name: **B6** Owner's name: **B6** Today's date: 4/17/19

1. How would you assess your pet's appetite? (mark the point on the line below that best represents your pet's appetite)
 Example: **Poor** _____ | _____ **Excellent**
Poor _____ | _____ **Excellent**

2. Have you noticed a change in your pet's appetite over the last 1-2 weeks? (check all that apply)
 Eats about the same amount as usual Eats less than usual Eats more than usual
 Seems to prefer different foods than usual Other _____

3. Over the last few weeks, has your pet (check one)
 Lost weight Gained weight Stayed about the same weight Don't know

1. Please list below ALL pet foods, people food, treats, snack, dental chews, rawhides, and any other food item that your pet currently eats and that you have fed in the last 2 years.

Please provide enough detail that we could go to the store and buy the exact same food - examples are shown in the table

Food (include specific product and flavor)	Form	Amount	How often?	Dates fed
Nutro Grain Free Chicken, Lentil, & Sweet Potato Adult	dry	1 1/2 cup	2x/day	Jan 2016-present
85% lean hamburger	microwaved	3 oz	1x/week	June -Aug 2016
Pupperoni original beef flavor	treat	1/2	1x/day	Sept 2016-present
Rawhide	treat	6 inch twist	1x/week	Dec 2018-present
B. Buf. - Regular Turkey chicken	Dry	1 1/2 C	2x day	2010 - ?
Blue Buffalo - grain free chicken	Dry	1 1/2 C	2x day	8/2018 to 8/2018
Blue Buf. - Limited ingredient dry-chicken	Dry	1 1/2 C	2x day	9/2018 - present

*Any additional diet information can be listed on the back of this sheet

2. Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any other supplements)? Yes No If yes, please list which ones and give brands and amounts:

	Brand/Concentration	Amount per day
Taurine <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____	_____
Carnitine <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____	_____
Antioxidants <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____	_____
Multivitamin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____	_____
Fish oil <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____	_____
Coenzyme Q10 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____	_____
Other (please list): Example: Vitamin C	Nature's Bounty	500 mg tablets - 1 per day

3. How do you administer pills to your pet?
 I do not give any medications
 I put them directly in my pet's mouth without food
 I put them in my pet's dog/cat food
 I put them in a Pill Pocket or similar product
 I put them in foods (list foods): piece of chicken

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

Research cbc/chem 4-17-2019



Tufts Cummings School Of Veterinary Medicine

200 Westboro Road
North Grafton, MA 01536

DUPLICATE

Name/DOB: B6	Sex: CM	Provider: Dr. John Rush
Patient ID: B6	Age: 12	Order Location: Foster Hospital for Small Animals
Phone number:	Species: Canine	Sample ID: 1904170138
Collection Date: 4/17/2019 3:28 PM	Breed: Golden Retriever	
Approval date: 4/17/2019 6:15 PM		

CBC, Comprehensive, Sm Animal (Research)

SMACHUNSKI		Ref. Range/Males
WBC (ADVIA)	B6	4.40-15.10 K/uL
RBC (Advia)	B6	5.80-8.50 M/uL
Hemoglobin (ADVIA)	B6	13.3-20.5 g/dL
Hematocrit (Advia)	B6	39-55 %
MCV (ADVIA)	B6	64.5-77.5 fL
MCH (ADVIA)	B6	21.3-25.9 pg
CHCM	B6	
MCHC (ADVIA)	B6	31.9-34.3 g/dL
RDW (ADVIA)	B6	11.9-15.2
Platelet Count (Advia)	B6	173-486 K/uL
B6 6:15 PM	B6 plts per 100x field (estimated count of 90,000-180,000/uL)	
Mean Platelet Volume (Advia)	B6	8.29-13.20 fl
04/17/19 4:15 PM	Platelet clumps (if present) and sample age (greater than 4 hours) can result in a falsely increased MPV.	
Platelet Crit	B6	0.129-0.403 %
04/17/19 4:15 PM	Platelet Crit is invalid when clumped platelets are present. Interpretation of PltCt is unclear in species other than canines.	
PDW	B6	
Reticulocyte Count (Advia)	B6	0.20-1.60 %
Absolute Reticulocyte Count (Advia)	B6	14.7-113.7 K/uL
CHr	B6	
MCVr	B6	

Microscopic Exam of Blood Smear (Advia)

SMACHUNSKI		Ref. Range/Males
Seg Neuts (%)	B6	43-86 %
Lymphocytes (%)	B6	7-47 %
Monocytes (%)	B6	1-15 %
Eosinophils (%)	B6	0-16 %
Seg Neutrophils (Abs) Advia	B6	2.800-11.500 K/uL
Lymphs (Abs) Advia	B6	1.00-4.80 K/uL
Mono (Abs) Advia	B6	0.10-1.50 K/uL
Eosinophils (Abs) Advia	B6	0.00-1.40 K/uL
WBC Morphology	B6	
RBC Morphology	B6	

Research Chemistry Profile - Small Animal (Cobas)

Sample ID: 1904170138/1
This report continues... (Final)

Reviewed by: _____

Client: **B6**
Patient:

Research cbc/chem 4-17-2019



Tufts Cummings School Of Veterinary Medicine

200 Westboro Road
North Grafton, MA 01536

DUPLICATE

Name/DOB:	B6	Sex:	CM	Provider:	Dr. John Rush
Patient ID:		Age:	12	Order Location:	Foster Hospital for Small Animals
Phone number:		Species:	Canine	Sample ID:	1904170138
Collection Date:	4/17/2019 3:28 PM	Breed:	Golden Retriever		
Approval date:	4/17/2019 6:15 PM				

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

		Ref. Range/Males
SMACHUNSKI		
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		2.3-4.2 g/dL
A/G Ratio		0.7-1.6
Sodium		140-150 mEq/L
Chloride		106-116 mEq/L
Potassium		3.7-5.4 mEq/L
tCO2(Bicarb)	B6	14-28 mEq/L
AGAP		8.0-19.0
NA/K		29-40
Total Bilirubin		0.10-0.30 mg/dL
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
Amylase		409-1250 U/L
Osmolality (calculated)		291-315 mmol/L

Sample ID: 1904170138/2
REPRINT: Orig. printing on 4/17/2019 (Final)

Reviewed by: _____
Page 2

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

Idexx NT-proBNP 4/17/2019

B6

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

B6

Client: **B6**
Patient: **B6**
Species: CANINE
Breed: GOLDEN_RETRIEVE
Gender: MALE NEUTERED
Age: 12Y

Date: 04/17/2019
Requisition #: 1A
Accession #: **B6**
Ordered by: RUSH

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

Account #88933

CARDIOPET proBNP - CANINE

Test	Result	Reference Range	Low	Normal	High
CARDIOPET proBNP - CANINE	B6	0 - 900 pmol/L	HIGH		B6

Comments

B6

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

Client: **B6**
Patient:

Vitals Results

4/17/2019 1:37:54 PM	Weight (kg)	38.0000
----------------------	-------------	---------

Client: **B6**
Patient:

ECG from Cardio

B6

4/17/2019 2:29:36 PM

Page 1 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

12-Lead, Standard Placement

B6

Client:
Patient:

B6

ECG from Cardio

B6

4/17/2019 2:29:36 PM

Page 2 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

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

ECG from Cardio

B6

4/17/2019 2:32:10 PM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client:
Patient:

B6

ECG from Cardio

B6

4/17/2019 2:34:20 PM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

12 Lead Standard Placement

B6

Client: **B6**
Patient:

ECG from Cardio

B6

4/17/2019 2:34:46 PM

Page 1 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

12 Lead: Standard Placement

B6

Client: **B6**
Patient:

ECG from Cardio

B6

4/17/2019 2:34:46 PM

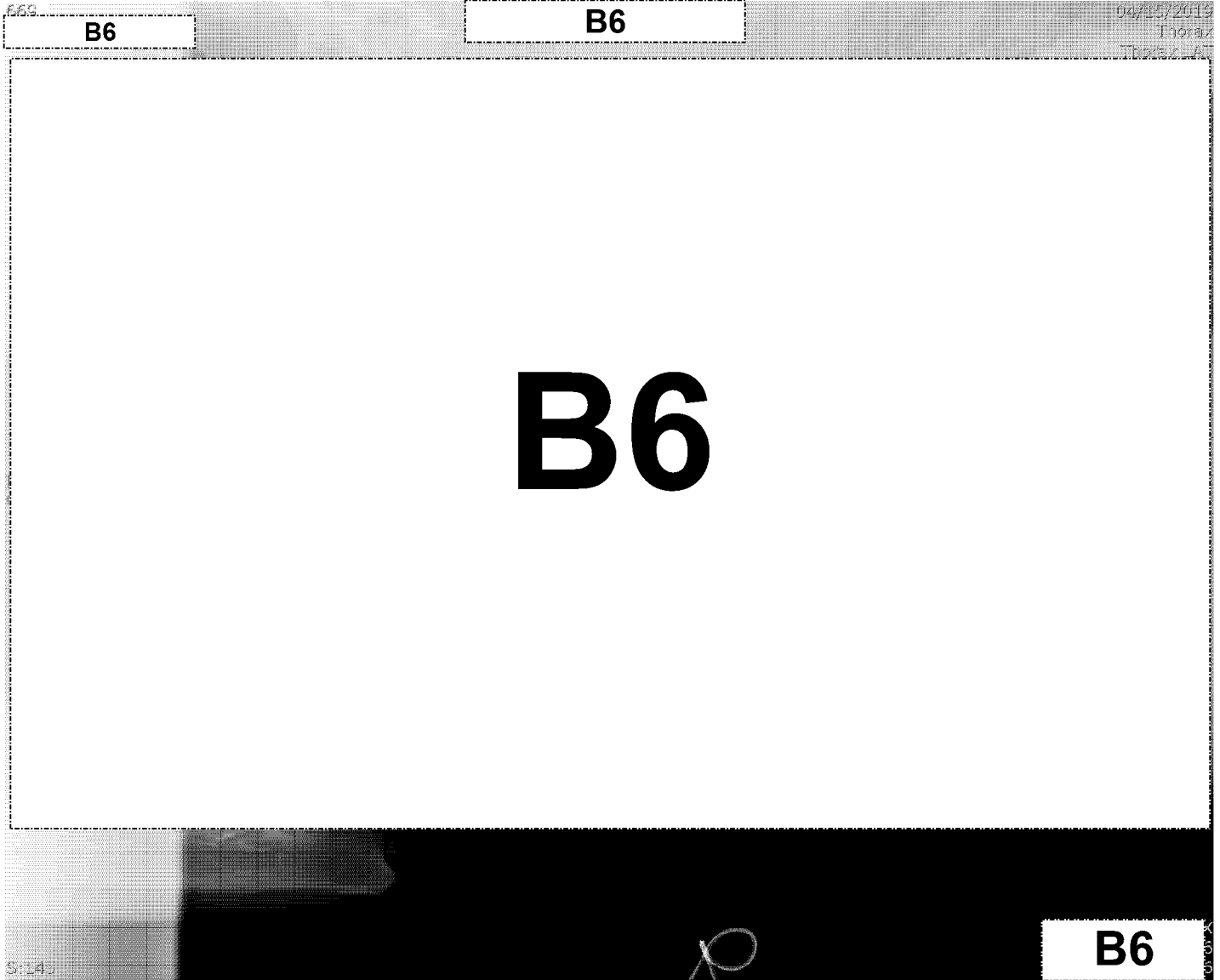
Page 2 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

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

4/15/19 rads



Client:
Patient:

B6

Patient History

04/17/2019 01:32 PM	UserForm
04/17/2019 01:37 PM	Vitals
04/17/2019 02:00 PM	Treatment
04/17/2019 02:34 PM	Purchase
04/17/2019 02:34 PM	Purchase
04/17/2019 02:34 PM	Purchase
04/17/2019 02:45 PM	Purchase
04/17/2019 02:45 PM	Purchase
04/17/2019 03:14 PM	UserForm
04/17/2019 03:15 PM	Prescription
04/17/2019 03:16 PM	Prescription
04/17/2019 03:20 PM	Purchase
04/17/2019 03:49 PM	Prescription
04/17/2019 03:51 PM	Email

B6

Discharge Instructions

Patient

Name: B6

Species: Canine

Gold Male (Neutered) Golden Retriever

Birthdate: B6

Owner

Name: B6

Address: B6

Patient ID: B6

Attending Cardiologist:

John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC

B6

Cardiology Resident:

B6

Cardiology Technician:

B6

Student:

Admit Date: 4/17/2019 1:19:29 PM

Discharge Date: 4/17/2019

Diagnoses: Chronic valvular disease with mitral regurgitation, Reduced contractile function/myocardial failure, pericardial effusion (small volume), congestive heart failure with pulmonary edema (suspected), atrial and ventricular arrhythmias

Clinical findings:

Your dog has a leak at one of the heart valves, the mitral valve, and this leak has resulted in a heart murmur and enlargement of the heart. This problem with the heart valve is a common one in dogs, due to aging changes to the valve that result in thickening and a subsequent leak of the valve. B6 also had reduced contractile function of the heart - this could be just related to end stage heart disease from the leaky valve, or may be in part related to a limited ingredient diet. The heart enlargement has now progressed to the point where fluid is backing up into the lungs causing pulmonary edema, a condition called congestive heart failure. We also found some irregular heart beats but do not seem to be frequent enough to warrant treatment at this time. However, they may eventually lead to collapse (syncope). We will re-assess the addition of this medication at the next recheck appointment.

There is a small amount of fluid around the heart (pericardial effusion) - we suspect this is due to heart failure, and we cannot see a mass that might have cause the fluid, but sometimes there is a small mass we cannot find.

We cannot do anything to change the thickening or leak at the valve, but we can use cardiac medications and some changes to the diet to make B6 comfortable and have him breathing easier. Unfortunately, this is a progressive disease and the treatment options cannot reverse the damage to the valve.

Diagnostic test results:

B6

Monitoring at home:

We would like you to monitor breathing rate and effort at home, ideally during sleep or at a time of rest. The doses of drugs will be adjusted based on the breathing rate and effort. In general, most dogs with heart failure that is well controlled have a breathing rate at rest of less than 35 breaths per minute. In addition, the breathing effort, noted by the amount of belly wall motion used for each breath, is fairly minimal if heart failure is controlled. An increase in breathing rate or effort will usually mean that you should give an extra dose of . If difficulty breathing is not improved within 30-60 minutes after giving extra furosemide then we recommend that a recheck exam be scheduled and/or that be evaluated by an emergency clinic. There are instructions for monitoring breathing, and a form to help keep track of breathing rate and drug doses, on the Tufts HeartSmart web site (<http://vet.tufts.edu/heartsmart/at-home-monitoring/>). 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 notice an episode of collapse, it is okay to help the dog get back up; however, most dogs will get up on their own in about 20 minutes. If an episode of collapse occurs, we would like to know about it right away.

Recommended Medications:

B6

Diet suggestions:

Dogs with heart failure accumulate more fluid in their body if they eat large amounts of sodium (salt). Sodium can be found in all foods, but some foods are lower in sodium than others. Many treats, most people foods, and the 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. In addition, your dog's usual diet may have more sodium than recommended - we want your dog to eat their usual diet for the first 5 to 10 days so we can make sure they are tolerating medications well, but after that time

we would recommend slowly introducing one of the lower sodium diets on the HeartSmart list (25% of the new diet and 75% old diet for 2-3 days, then 50:50, etc.). Hopefully you can find a diet on the list that B6 likes to eat. Alternatively, you can research the amount of sodium in your dog's current diet to ensure that the sodium content is similar to those on the list. The HeartSmart web site also has some information on supplements such as fish oil, taurine, and other supplements that you might have questions about (<http://vet.tufts.edu/heartsmart/diet/>).

- o The FDA is currently investigating an apparent association between diet and a type of heart disease called dilated cardiomyopathy. The exact cause is still unclear, but it appears to be associated with boutique diets and those containing exotic ingredient or are grain-free. Therefore, we are currently recommending that dogs do not eat these types of diets.
- o We recommend switching B6 to commercial diet made by a well-established company that is not grain-free and does not contain any exotic ingredients, such as kangaroo, duck, lamb, venison, lentils, peas, beans, buffalo, tapioca, barley, and chickpeas.
- o The FDA issued a statement regarding this issue (<https://www.fda.gov/AnimalVeterinary/NewsEvents/CVMUpdates/ucm613305.htm>) and a recent article published by Dr. Lisa Freeman on the Cummings School's Petfoodology blog can further explain these findings (<http://vetnutrition.tufts.edu/2018/06/a-broken-heart-risk-of-heart-disease-in-boutique-or-grain-free-diets-and-exotic-ingredients/>).
- o Our nutritionists have compiled a list of dog foods that are good options for dogs with heart disease.

Dry Food Options:

Royal Canin Early Cardiac (veterinary diet)

Royal Canin Boster

Purina Pro Plan Adult Weight Management

Purina Pro Plan Bright Mind Adult Small Breed Formula

Canned Food Options:

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

Royal Canin Mature 8+

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

Exercise Recommendations:

For the first 7 to 10 days after starting medications for heart failure we recommend very limited activity. Leash walk only is ideal, and short walks to start. Once heart failure is better controlled then slightly longer walks are acceptable. If B6 is lagging behind or needs to stop then this was too long a walk and shorter walks are advised. High energy activities (repetitive ball chasing, running fast off a leash) are generally not advised at this stage of heart failure.

Recheck Visits: A recheck visit is scheduled for B6 at April 30th at noon. At this visit we will want to recheck B6 breathing effort and heart function, do a blood test to recheck kidney values, and recheck an ECG. A recheck echocardiogram is recommended in 3 months. Your other dog, B6 should get a blood test at your local veterinarian's office to check for levels of NT-proBNP. This is a protein that is released by the heart when it is stretched. If this value is normal, there is a low chance that she has a cardiac disease. However, if this value is at least moderately elevated, we might like to take a look at her. Please send us the result when you receive it.

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

Please visit our HeartSmart website for more information

<http://vet.tufts.edu/heartsmart/>

Prescription Refill Disclaimer:

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

Ordering Food:

Please check with your primary veterinarian to purchase the recommended diet(s). If you wish to purchase your food from us,

please call 7-10 days in advance (508-887-4629) to ensure the food is in stock. Alternatively, veterinary diets can be ordered from online retailers with a prescription/veterinary approval.

Clinical Trials:

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

Case: B6

Owner: B6

Discharge Instructions

Cummings Veterinary Medical Center

AT TUFTS UNIVERSITY

Cardiology Liaison: 508-887-4696

B6

Patient ID: **B6**

B6 Canine
Years Old Male (Neutered) Golden Retriever
Gold

Cardiology Appointment Report ENROLLED IN DCM DIET STUDY

Date: 4/17/2019

Attending Cardiologist:

John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC (primary)

B6

Cardiology Resident:

B6

Cardiology Technician:

B6

Presenting Complaint:

Presented to rDVM for cough for a month. Went to two vets yesterday. Suspicion of pericardial effusion vs DCM. Took radiographs and showed enlarged heart. Started **B6** yesterday.

Concurrent Diseases:

Pretty healthy dog. Occasional vomiting early on in life. Seasonal allergies

General Medical History:

Over last month has been slowing down. Eating less. Does not want to go upstairs with family.

Diet and Supplements:

Blue buffalo limited ingredient for about a year. Blue buffalo for first couple years of his life and started vomiting then switched to grain free. Switched to Blue Buffalo Chicken limited ingredient almost a year ago.

Cardiovascular History:

Prior CHF diagnosis?	NO
Prior heart murmur?	YES
Prior ATE?	NO
Prior arrhythmia?	NO
Monitoring respiratory rate and effort at home?	NO
Cough?	YES

Shortness of breath or difficulty breathing?

Maybe (panting has increased)

Syncope or collapse?

NO

Sudden onset lameness?

NO

Exercise intolerance?

NO

Current Medications Pertinent to CV System:

Heartgard chew

Flea and tick is seasonal

Pimobendan 10mg PO BID

Cardiac Physical Examination:

B6

Muscle condition:

Normal

Mild muscle loss

Moderate cachexia

Marked cachexia

Cardiovascular Physical Exam:

Murmur Grade:

None

I/VI

II/VI

III/VI

IV/VI

V/VI

VI/VI

Murmur location/description: Left apical murmur

Jugular vein:

Bottom 1/3 of the neck

Middle 1/3 of the neck

1/2 way up the neck

Top 2/3 of the neck

Arterial pulses:

Weak

Fair

Good

Strong

Bounding

Pulse deficits

Pulsus paradoxus

Other:

Arrhythmia:

None

Sinus arrhythmia

Premature beats

Bradycardia

Tachycardia

Gallop:

Yes

No

Intermittent

Pronounced

Other:

Pulmonary assessments:

Eupneic to

Mild dyspnea slightly blue hue to the

Pulmonary crackles

Wheezes

- tongue
- Marked dyspnea
- Normal *BY* sounds

- Upper airway stridor

Abdominal exam:

- Normal
- Hepatomegaly
- Abdominal distension

- Mild ascites
- Marked ascites

Problems:

Cardiac murmur, arrhythmia, cough, possible DCM vs pericardial disease

Diagnostic plan:

- Echocardiogram
- Chemistry profile
- ECG
- Renal profile
- Blood pressure

- Dialysis profile
- Thoracic radiographs
- NT-proBNP
- Troponin I
- Other tests:

B6

Mitral inflow:

- Summated
- Normal
- Delayed relaxation

- Pseudonormal
- Restrictive

B6

Interpretation: predominant sinus rhythm with frequent and short episodes of SVT. Occasional monomorphic ventricular bigeminy and occasional isolated LV origin VPCs.

Radiographic findings:

None are available for review at the time of the cardiology exam. Some recent films were taken and had been requested.

Subsequently available lateral radiograph shows marked cardiomegaly with some pulmonary vein distension and likely mild IS pattern that could be mild pulmonary edema.

Assessment and recommendations:

Advanced DMVD with myocardial failure. Large breed dogs are more predisposed to have worsening contractile function when affected by DMVD. However, there may also be a component of either DCM or diet-induced cardiomyopathy, so at this point it is unclear which would be the underlying cause of the systolic dysfunction. We believe that B6 is in mild CHF, thus recommend B6 every 12-24h - depending on clinical signs such as cough, respiratory rate and effort) and B6

B6 BID.

Recommend switch diet to one of the diets listed in the discharge instruction; check with Dr. Freeman if the dog will not eat any of these. As some Golden Retrievers with diet-induced cardiomyopathy are taurine deficient and may respond to Taurine supplementation, (750 to 1000mg BID) Taurine should be started until have the levels results back. Recommend recheck blood work and ECG in 2 weeks. The arrhythmia might not be severe enough to require specific antiarrhythmic treatment today, but it is close, and the dog may be at risk of sudden death. If the arrhythmia is worse then we might star B6

Final Diagnosis:

- DMVD with severe LA enlargement;
- Decreased contractile function - r/o secondary to advanced DMVD vs. concomitant DCM vs. component of diet-induced DCM.

Heart Failure Classification Score:

ISACHC Classification:

- Ia
- Ib
- II
- IIIa
- IIIb

ACVIM Classification:

- A
- B1
- B2
- C
- D

M-Mode

IVSd	B6	cm
LVIDd		cm
LVPWd		cm
IVSs		cm
LVIDs		cm
LVPWs		cm
EDV(Teich)		ml
ESV(Teich)		ml
EF(Teich)		%
%FS		%

SV(Teich)
Max LA
TAPSE
EPSS

B6

ml
cm
cm
cm

M-Mode Normalized

IVSdN
LVIDdN
LVPWdN
IVSsN
LVIDsN
LVPWsN

B6

(0.290 - 0.520)
(1.350 - 1.730) !
(0.330 - 0.530)
(0.430 - 0.710) !
(0.790 - 1.140) !
(0.530 - 0.780)

2D

SA LA
Ao Diam
SA LA / Ao Diam
IVSd
LVIDd
LVPWd
EDV(Teich)
IVSs
LVIDs
LVPWs
ESV(Teich)
EF(Teich)
%FS
SV(Teich)
LV Major
LV Minor
Sphericity Index
LVld A4C
LVEDV MOD A4C
LVls A4C
LVESV MOD A4C
LVEF MOD A4C
SV MOD A4C
R-R
HR

B6

cm
cm

cm
cm
cm
ml
cm
cm
cm
ml
%
%
ml
cm
cm

cm
ml
cm
ml
%
ml
ms
BPM

Doppler

MR Vmax
MR maxPG
MV E Vel
MV DecT
MV Dec Slope
MV A Vel
MV E/A Ratio
E'
E/E'

B6

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

m/s

A'
S'
AV Vmax
AV maxPG
PV Vmax
PV maxPG
PRend Vmax
PRend PG
TR Vmax
TR maxPG

B6

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

From: Related PFR Event <pfrsignificantactivitycreation@fda.hhs.gov>
To: Rotstein, David; Cleary, Michael *; HQ Pet Food Report Notification; [REDACTED] B6
Sent: 6/11/2019 6:20:55 PM
Subject: Blue Buffalo Life Protection Formula Adult Chicken Recipe Grain-Free Dry Dog Food; [REDACTED] B6 - EON-390198
Attachments: 2068091-report.pdf; 2068091-attachments.zip

A PFR Report has been received and Related PFR Event [EON-390198] has been created in the EON System.

A "PDF" report by name "2068091-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 "2068091-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-390198

ICSR #: 2068091

EON Title: Related PFR Event created for Blue Buffalo Life Protection Formula Adult Chicken Recipe Grain-Free Dry Dog Food, Blue Buffalo Life Protection Adult Dog Food Natural Chicken & Brown Rice; 2068091

AE Date	03/17/2019	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Better/Improved/Recovering
Breed	Retriever - Golden		
Age	12 Years		
District Involved	PFR-New England DO		

Product information

Individual Case Safety Report Number: 2068091

Product Group: Pet Food

Product Name: Blue Buffalo Life Protection Formula Adult Chicken Recipe Grain-Free Dry Dog Food, Blue Buffalo Life Protection Adult Dog Food, Natural Chicken & Brown Rice

Description: Presented to rDVM 4/15 and 4/16 for a non-productive cough x 1 month and decreased appetite. O

suspected cough was due to seasonal allergies as patient has a hx of allergies. RDVM was suspicious of pericardial effusion vs DCM. Enlarged heart on radiograph. Patient was rx'd **B6** and referred to Tufts for further evaluation. Diet history: Blue Buffalo chicken limited ingredient x 1 year. Previously eating Blue Buffalo chicken grain-free since 2010. Echo revealed 3+ MR, reduced contractile function, trace pericardial effusion, ruptured chordae, no obvious heart base mass, no obvious RAA mass. Suspect CHF Normal plasma and whole blood taurine levels

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
Blue Buffalo Life Protection Adult Dog Food, Natural Chicken & Brown Rice		
Blue Buffalo Life Protection Formula Adult Chicken Recipe Grain-Free Dry Dog Food		

This report is linked to:

Initial EON Event Key: EON-385697

Initial ICSR: 2066104

Sender information

B6

USA

Owner information

B6

USA

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

B6

To view the Related 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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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-390198

ICSR:	2068091
Type Of Submission:	Followup
Report Version:	FPSR.FDA.PETF.V.V1
Type Of Report:	Adverse Event (a symptom, reaction or disease associated with the product)
Reporting Type:	Voluntary
Report Submission Date:	2019-06-11 14:13:53 EDT
Initial Report Date:	04/22/2019
Parent ICSR:	2066104
Follow-up Report to FDA Request:	Yes

Reported Problem:	Problem Description:	Presented to rDVM 4/15 and 4/16 for a non-productive cough x 1 month and decreased appetite. O suspected cough was due to seasonal allergies as patient has a hx of allergies. RDVM was suspicious of pericardial effusion vs DCM. Enlarged heart on radiograph. Patient was rx'd [B6] and referred to Tufts for further evaluation. Diet history: Blue Buffalo chicken limited ingredient x 1 year. Previously eating Blue Buffalo chicken grain-free since 2010. Echo revealed 3+ MR, reduced contractile function, trace pericardial effusion, ruptured chordae, no obvious heart base mass, no obvious RAA mass. Suspect CHF Normal plasma and whole blood taurine levels
	Date Problem Started:	03/17/2019
	Concurrent Medical Problem:	No
	Outcome to Date:	Better/Improved/Recovering

Product Information:	Product Name:	Blue Buffalo Life Protection Adult Dog Food, Natural Chicken & Brown Rice
	Product Type:	Pet Food
	Lot Number:	
	Package Type:	BAG
	Product Use Information:	
	Manufacturer /Distributor Information:	
	Purchase Location Information:	
	Product Name:	Blue Buffalo Life Protection Formula Adult Chicken Recipe 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:	
	Type Of Species:	Dog
	Type Of Breed:	Retriever - Golden
	Gender:	Male
	Reproductive Status:	Neutered
	Weight:	38 Kilogram
	Age:	12 Years
	Assessment of Prior Health:	Excellent

	Number of Animals Given the Product:	1																										
	Number of Animals Reacted:	1																										
	Owner Information:	<table border="1"> <tr> <td>Owner Information provided:</td> <td>Yes</td> </tr> <tr> <td>Contact:</td> <td> <table border="1"> <tr> <td>Name:</td> <td>B6</td> </tr> <tr> <td>Phone:</td> <td></td> </tr> <tr> <td>Email:</td> <td>B6</td> </tr> </table> </td> </tr> <tr> <td>Address:</td> <td> <table border="1"> <tr> <td>B6</td> </tr> <tr> <td>United States</td> </tr> </table> </td> </tr> </table>	Owner Information provided:	Yes	Contact:	<table border="1"> <tr> <td>Name:</td> <td>B6</td> </tr> <tr> <td>Phone:</td> <td></td> </tr> <tr> <td>Email:</td> <td>B6</td> </tr> </table>	Name:	B6	Phone:		Email:	B6	Address:	<table border="1"> <tr> <td>B6</td> </tr> <tr> <td>United States</td> </tr> </table>	B6	United States												
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Phone:	B6																											
Email:	B6																											
	Permission To Contact Sender:	Yes																										
	Preferred Method Of Contact:	Email																										
	Reported to Other Parties:	None																										
Additional Documents:	Attachment:	At home ECG readings.pdf																										
	Description:	ECGs																										
	Type:	Medical Records																										

Attachment:	Recheck ECG 4-30-2019.pdf
Description:	Hospital ECG
Type:	Medical Records
Attachment:	Follow-up med records pt 1.pdf
Description:	Med records
Type:	Medical Records
Attachment:	Follow-up med records pt 2.pdf
Description:	Med records
Type:	Medical Records

Client: **B6**
Patient:

AliveCor ECG

Patient: **B6**
Breed/Species: Golden / Canine
Recorded: Wednesday, May 8, 2019 at 9:07:06 PM
Heart Rate: **B6** bpm Duration: 29 s



Meins, Elmer, RCH, Scale: 25mm/s, J. Gonzalez

B6

Client:
Patient: **B6**

AliveCor ECG

Patient: **B6**
Breed/Species: Golden / Canine
Recorded: Thursday, May 9, 2019 at 9:03:43 PM
Heart Rate: **86 bpm** Duration: 39 s



Meas. filter: 50Hz Scale: 2.5mv/div 10mm/2s

B6

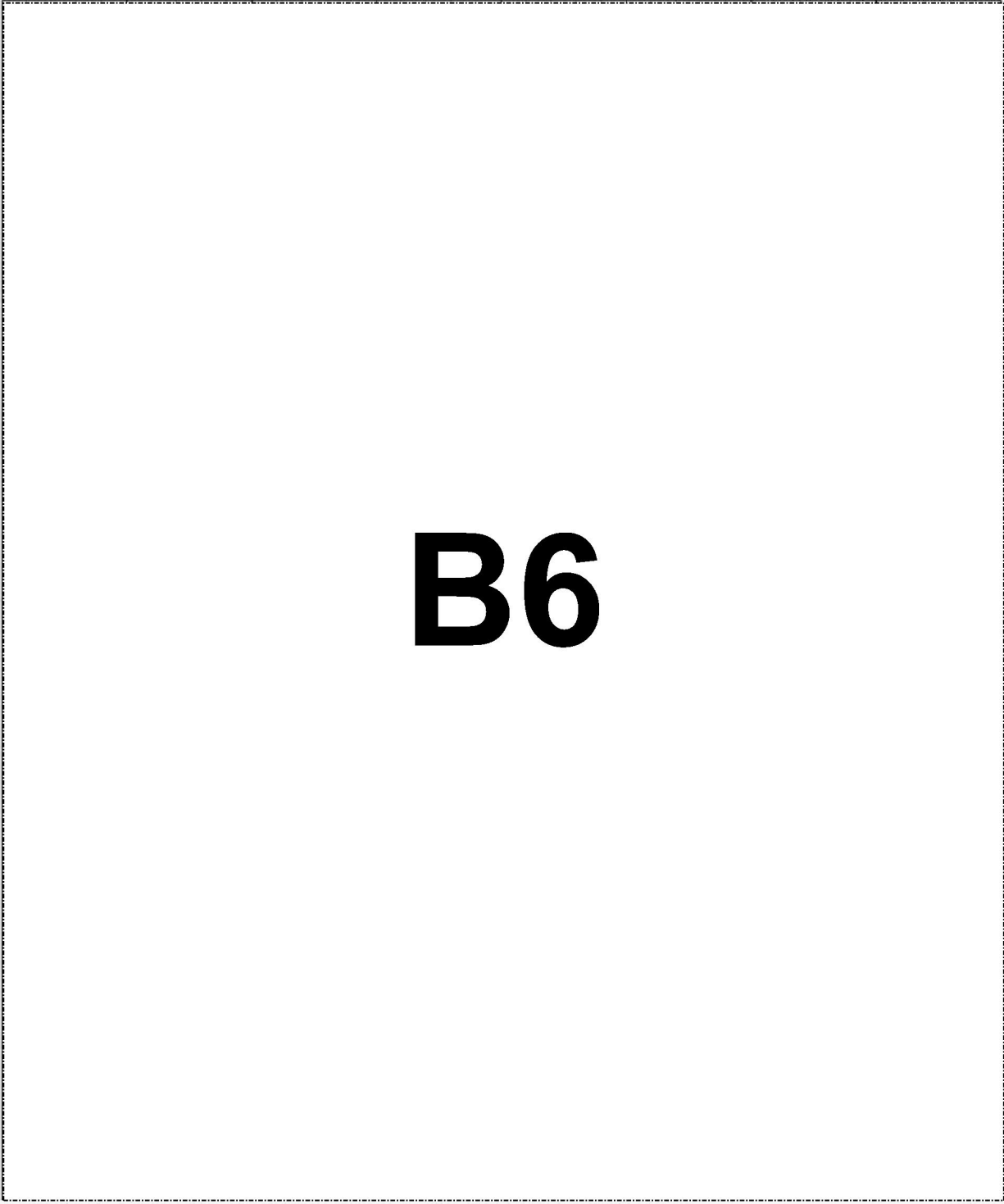
Client: **B6**
Patient:

AliveCor ECG

Patient: **B6**
Breed/Species: Golden / Canine
Recorded: Thursday, May 9, 2019 at 9:03:43 PM
Heart Rate: **B6**bpm Duration: 39 s



Main filter: 80Hz Scale: 25mm/s, 10mm/mV



Client:
Patient: **B6**

AliveCor ECG

Patient: **B6**
Breed/Species: Golden / Canine
Recorded: Friday, May 10, 2019 at 10:00:45 PM
Heart Rate: **B6**bpm Duration: 28 s



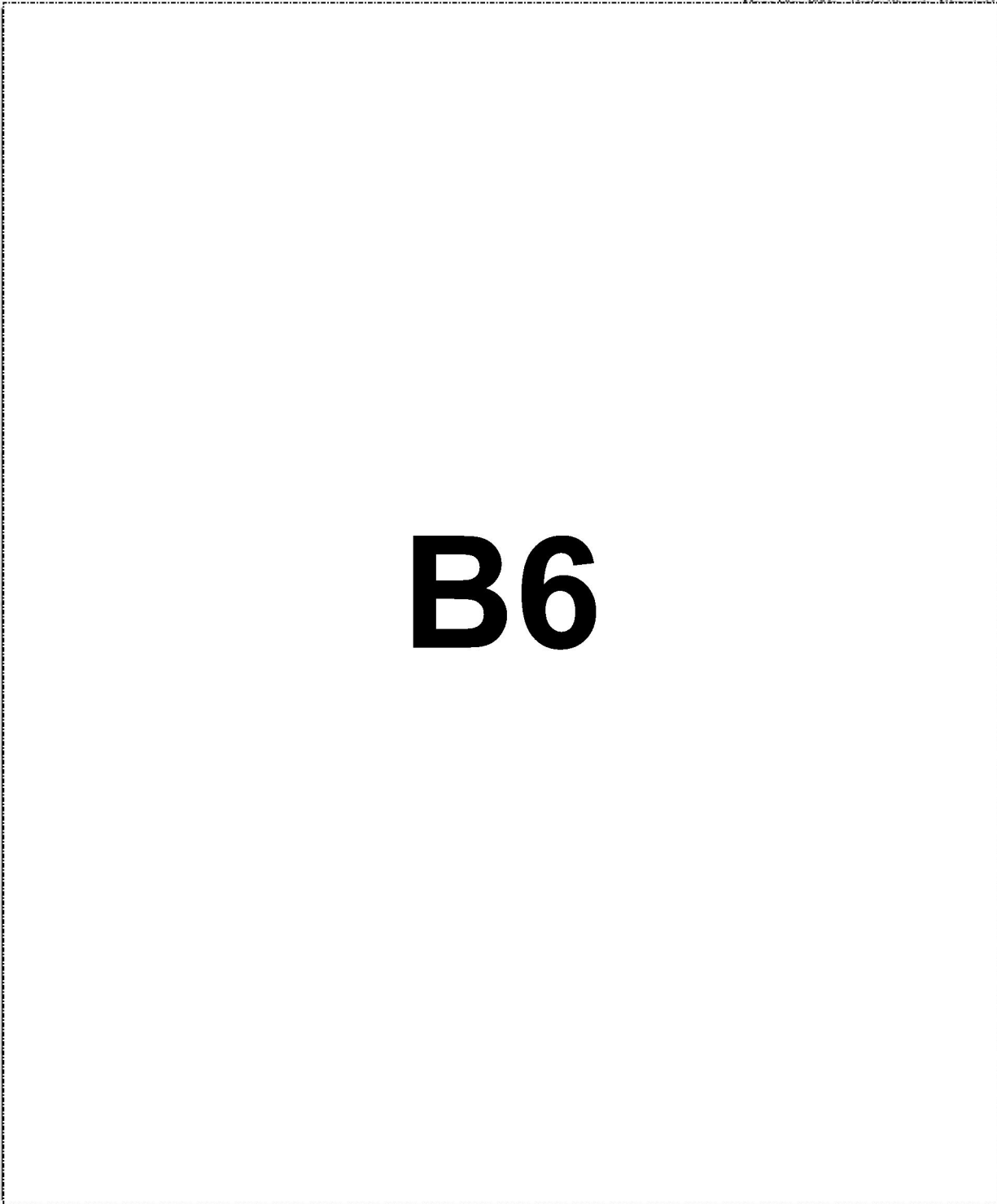
...Main Filter: 60Hz...Scale: 25mm/s...1.0mV/cm...

B6

Client:
Patient: **B6**

Alivecor ECG

Patient: **B6**
Breed/Species: Golden / Canine
Recorded: Sunday, May 12, 2019 at 8:06:48 PM
Heart Rate: **86** bpm Duration: 40 s



Client:
Patient: **B6**

AliveCor ECG

Patient: **B6**
Breed/Species: Golden / Canine
Recorded: Sunday, May 12, 2019 at 8:06:48 PM
Heart Rate: **B6** bpm Duration: 40 s



Main Filter: 60Hz Scale: 25mm/s 1/200000V

B6

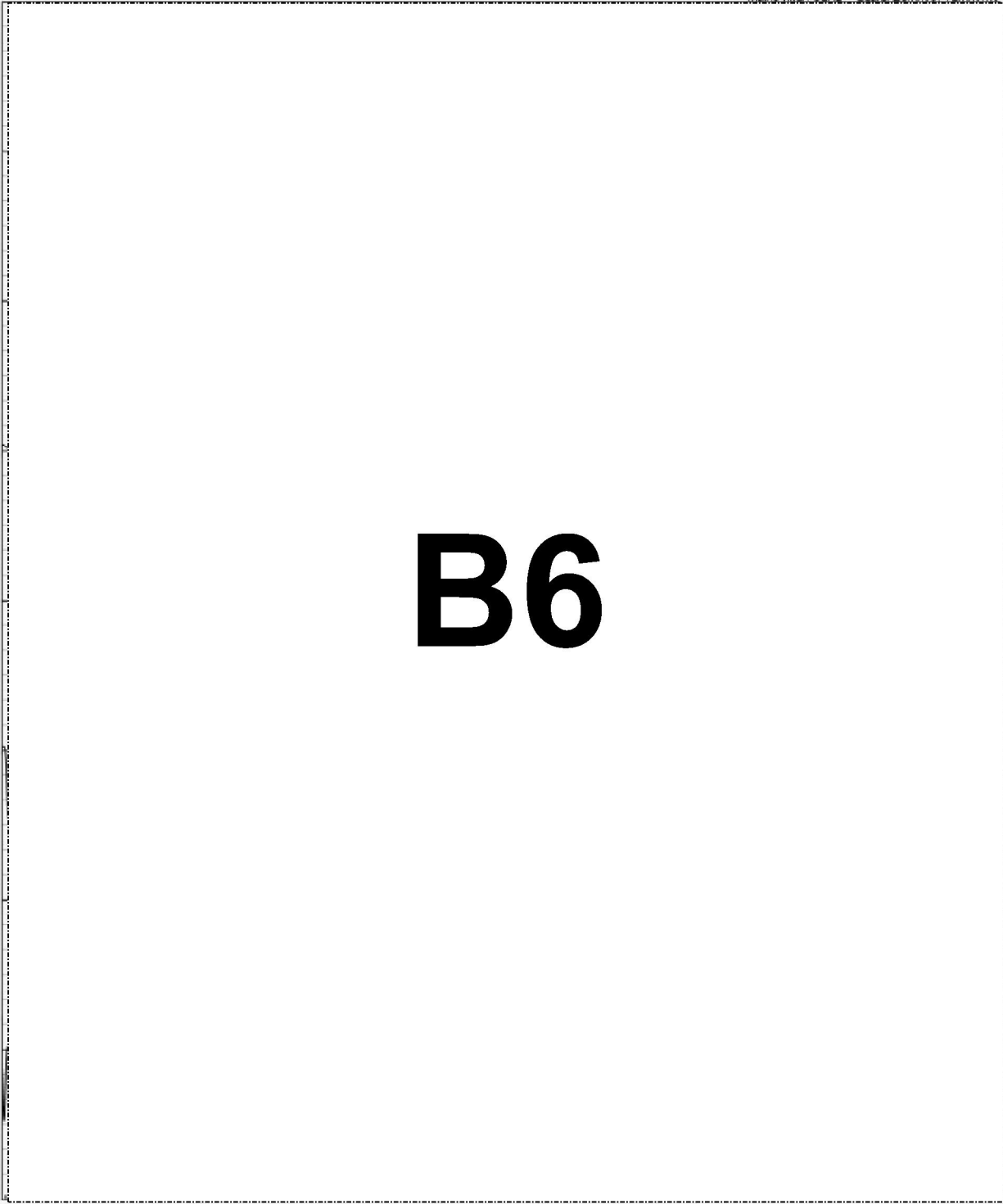
Client:
Patient: **B6**

AliveCor ECG

Patient: **B6**
Breed/Species: Golden / Canine
Recorded: Monday, May 13, 2019 at 8:43:21 PM
Heart Rate: **B6** bpm Duration: 43 s



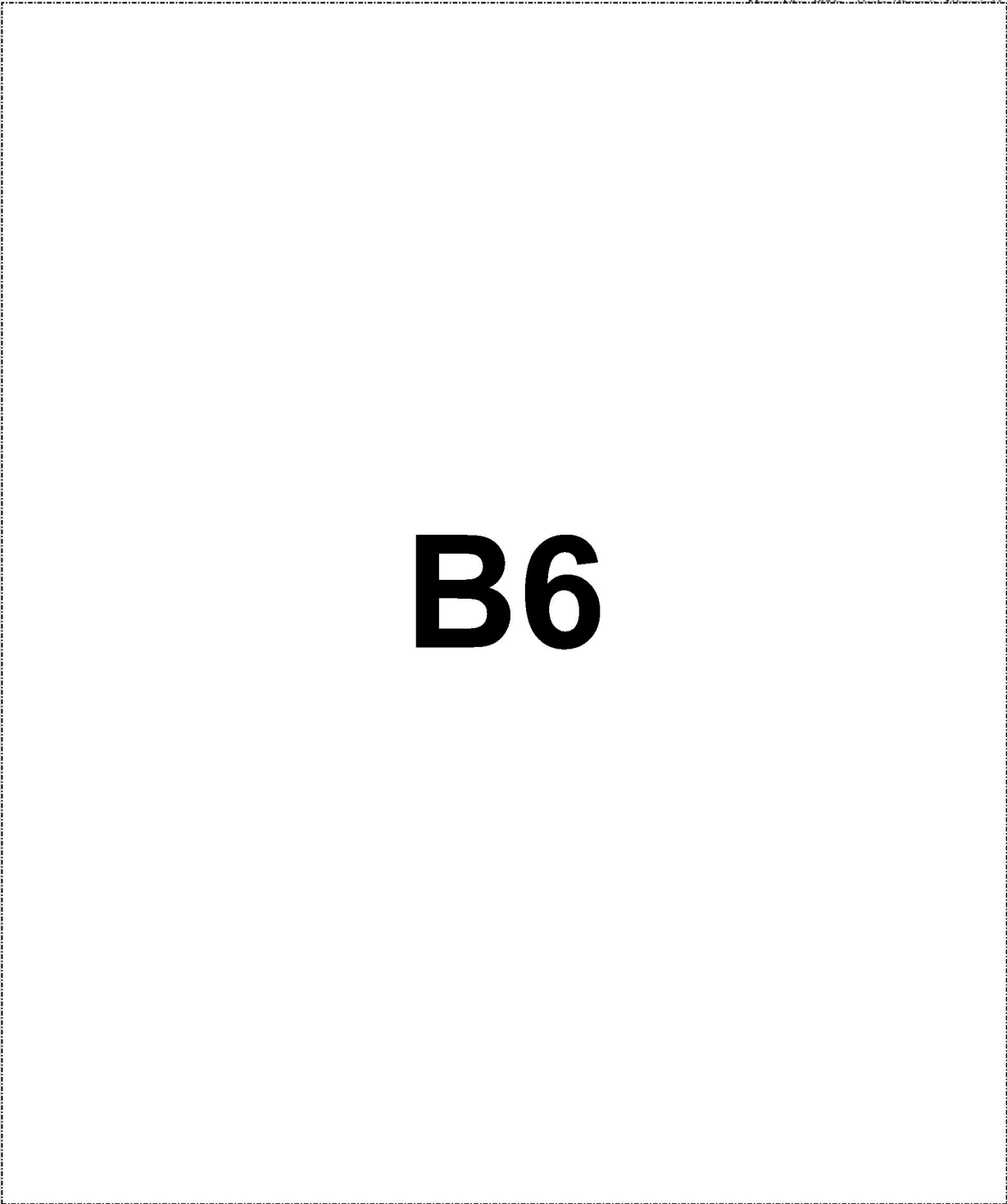
Main filter: 60Hz Scale: 25mm/s, 10mm/mV



Client:
Patient: **B6**

Alivecor ECG

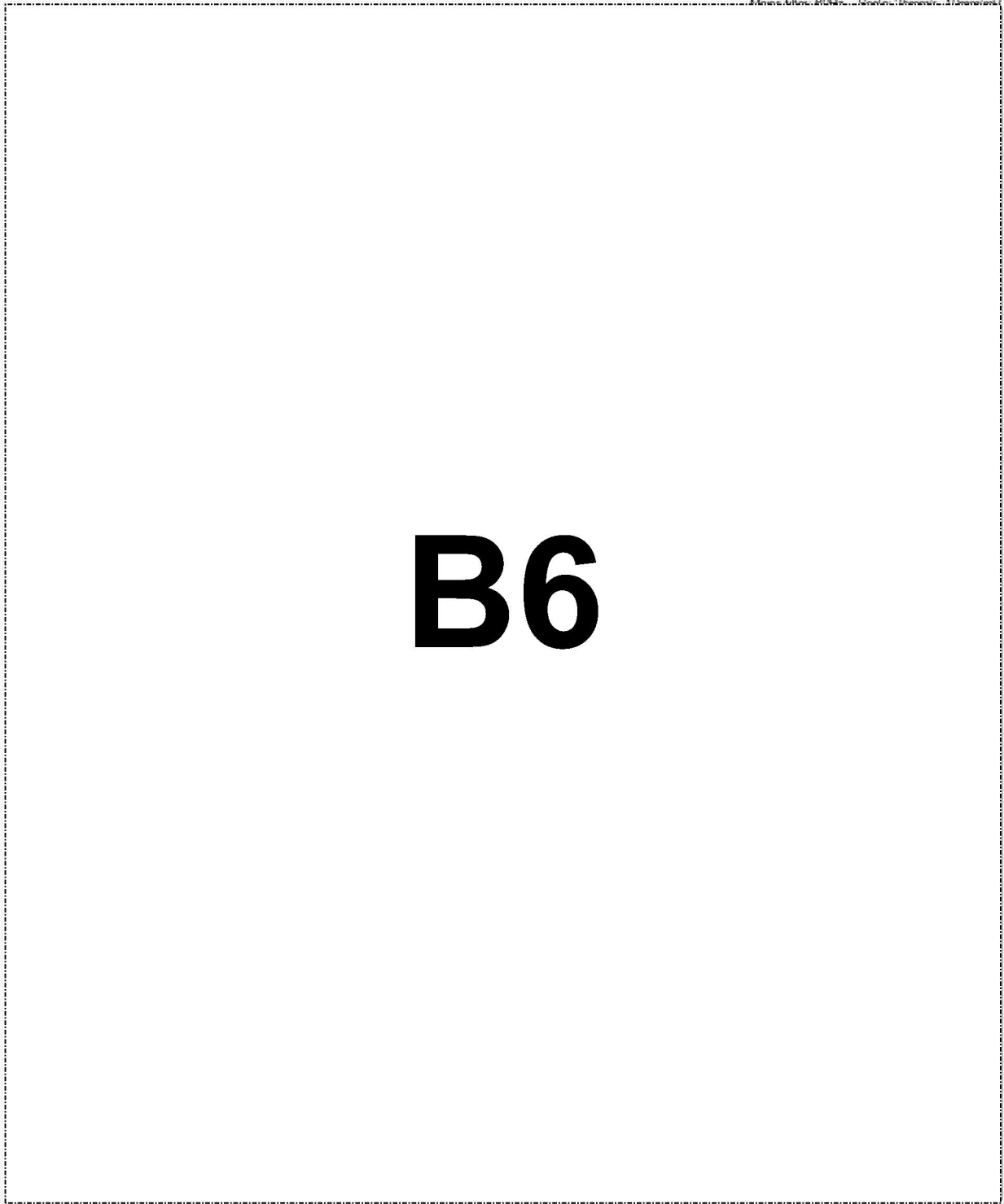
Patient: **B6**
Breed/Species: Golden / Canine
Recorded: Monday, May 13, 2019 at 8:43:21 PM
Heart Rate: **B6**bpm Duration: 43 s



Client:
Patient: **B6**

Alivecor ECG

Patient: **B6**
Breed/Species: Golden / Canine
Recorded: Wednesday, May 15, 2019 at 9:34:29 PM
Heart Rate: **B6**bpm Duration: 39 s



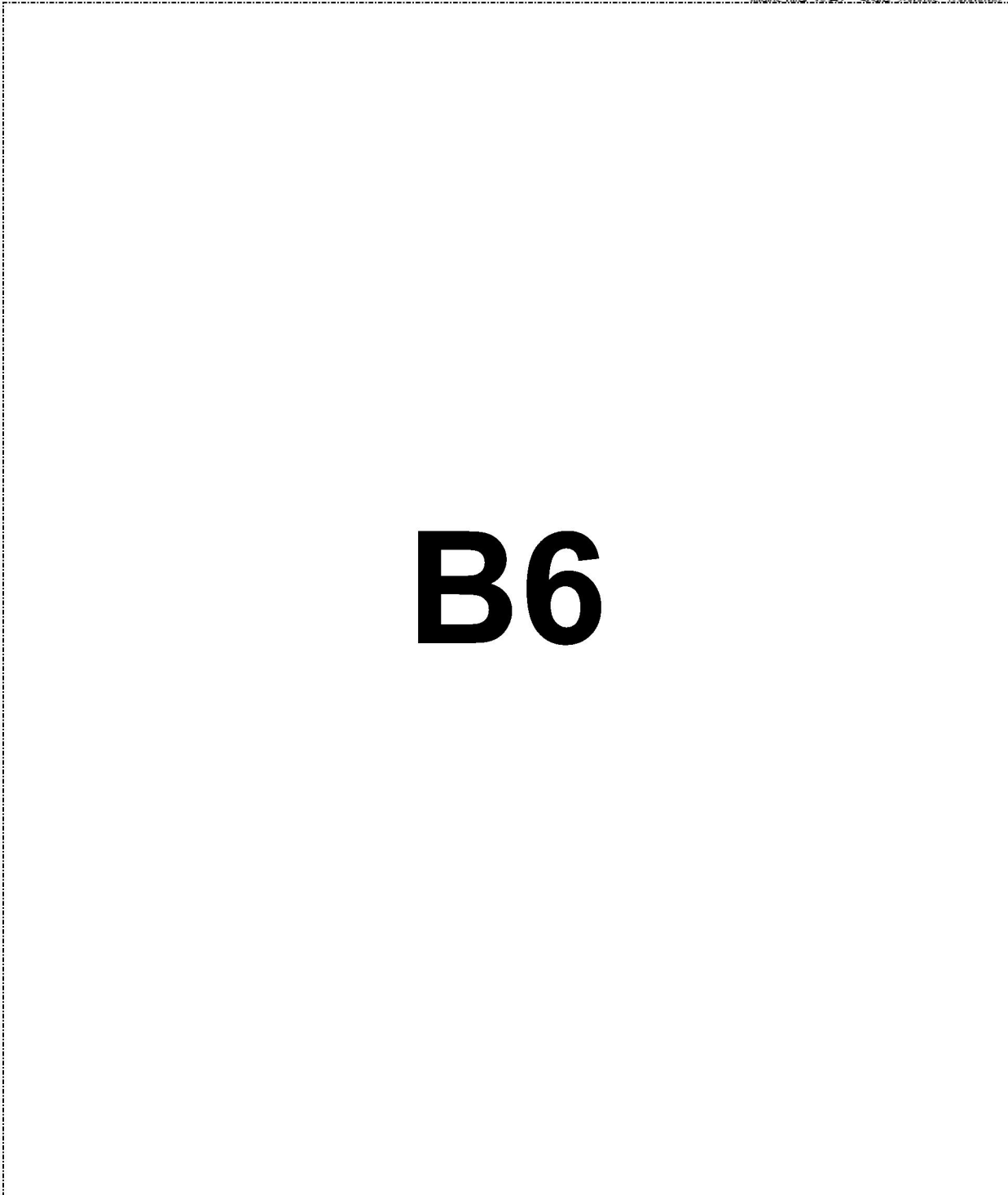
Client: **B6**
Patient:

AliveCor ECG

Patient: **B6**
Breed/Species: Golden / Canine
Recorded: Wednesday, May 15, 2019 at 9:34:29 PM
Heart Rate: **B6** bpm Duration: 39 s



Main Filter: 60Hz Scale: 25mm/s 1/2000mV



Client: **B6**
Patient:

AliveCor ECG

Patient: **B6**
Breed/Species: Golden / Canine
Recorded: Sunday, May 19, 2019 at 8:35:18 PM
Heart Rate: **B6** bpm Duration: 32 s



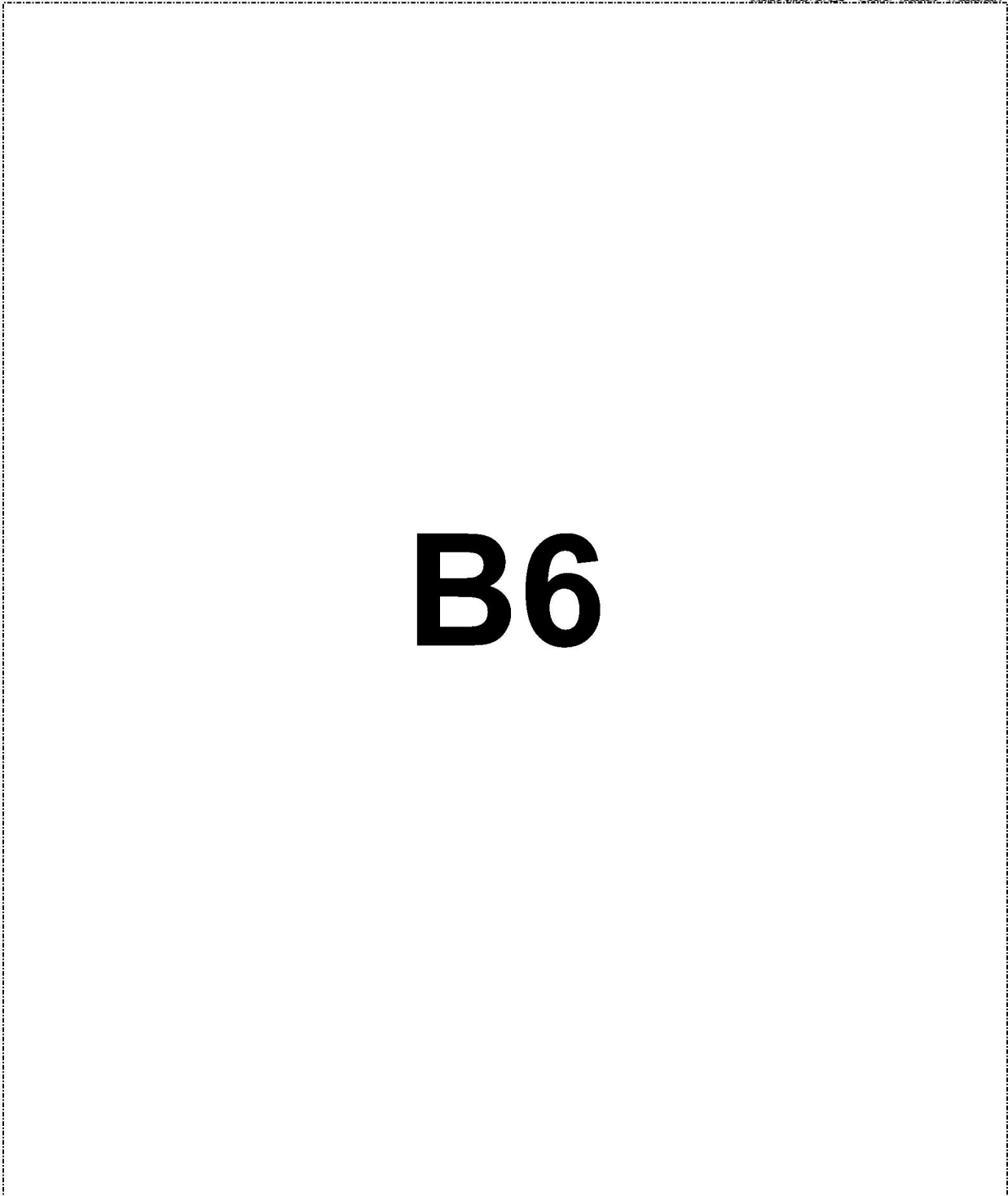
Meas. Filter: 60Hz Scale: 2.5mm/s 10mm/s/V

B6

Client:
Patient: **B6**

AliveCor ECG

Patient: **B6**
Breed/Species: Golden / Canine
Recorded: Monday, May 27, 2019 at 9:41:45 PM
Heart Rate: **B6** bpm Duration: 36 s



Client: **B6**
Patient:

AliveCor ECG

Patient: **B6**
Breed/Species: Golden / Canine
Recorded: Monday, May 27, 2019 at 9:41:45 PM
Heart Rate: **B6** bpm Duration: 36 s



Mains filter: 60Hz Scale: 25mm/s 1.0mV/cm

B6

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

AliveCor ECG

Patient: **B6**
Breed/Species: Golden / Canine
Recorded: Sunday, June 9, 2019 at 9:45:27 PM
Heart Rate: **B6**bpm Duration: 32 s



Meas. Filter: 60Hz Scale: 2.5mm/10mm/10mm/10mm

B6

Client:
Patient: **B6**

AliveCor ECG

Patient: **B6**
Breed/Species: Golden / Canine
Recorded: Sunday, June 9, 2019 at 9:45:27 PM
Heart Rate: **B6**bpm Duration: 32 s



Meas. filter: 50Hz Scale: 2.5mv/div 10mm/1s

B6

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

Recheck chem: **B6**



Tufts Cummings School Of Veterinary Medicine

200 Westboro Road
North Grafton, MA 01536

Name/DOB: B6	Sex: CM	Provider: Dr. John Rush
Patient ID: B6	Age: 12	Order Location: V320559: Investigation into
Phone number:	Species: Canine	Sample ID: 1904300091
Collection Date: 4/30/2019 12:52 PM	Breed: Golden Retriever	
Approval date: 4/30/2019 1:33 PM		

Research Chemistry Profile - Small Animal (Cobas)

		Ref. Range/Males
CSTCYR	B6	
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		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		0.10-0.30 mg/dL
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	
Amylase	409-1250 U/L	
Osmolality (calculated)	291-315 mmol/L	

Sample ID: 1904300091/1
END OF REPORT (Final)

Reviewed by: _____

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

Diet Hx **B6**

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

Pet's name: **B6** Owner's name: **B6** Today's date: **B6**

1. How would you assess your pet's appetite? (mark the point on the line below that best represents your pet's appetite)

Example: Poor _____ | _____ Excellent
Poor _____ | _____ Excellent

2. Have you noticed a change in your pet's appetite over the last 1-2 weeks? (check all that apply)

Eats about the same amount as usual Eats less than usual Eats more than usual
 Seems to prefer different foods than usual Other appetite has improved since he began meds

3. Over the last few weeks, has your pet (check one)

Lost weight Gained weight Stayed about the same weight Don't know

1. Please list below ALL pet foods, people food, treats, snack, dental chews, rawhides, and any other food item that your pet currently eats and that you have fed in the last 2 years. - Completed history last visit so I just included his current food here.

Please provide enough detail that we could go to the store and buy the exact same food - examples are shown in the table

Food (include specific product and flavor)	Form	Amount	How often?	Dates fed
Nutro Grain Free Chicken, Lentil, & Sweet Potato Adult	dry	1 1/2 cup	2x/day	Jan 2016-present
85% lean hamburger	microwaved	3 oz	1x/week	June-Aug 2016
Pupperoni original beef flavor	treat	1/2	1x/day	Sept 2016-present
Rawhide	treat	6 inch twist	1x/week	Dec 2018-present
Pro Action Pro Plan weight management- few bites size PC Chicken	dry	1/2 c	2 x day	Started 4/22-present
Milkbone brand sm. dog biscuits	boned	few pc.	2x daily	? - present
		1-2 pc.	3x daily	? - present

*Any additional diet information can be listed on the back of this sheet

2. Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any other supplements)? Yes No If yes, please list which ones and give brands and amounts:

	Brand/Concentration	Amount per day
Taurine <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	see file	
Carnitine <input type="checkbox"/> Yes <input type="checkbox"/> No		
Antioxidants <input type="checkbox"/> Yes <input type="checkbox"/> No		
Multivitamin <input type="checkbox"/> Yes <input type="checkbox"/> No		
Fish oil <input type="checkbox"/> Yes <input type="checkbox"/> No		
Coenzyme Q10 <input type="checkbox"/> Yes <input type="checkbox"/> No		
Other (please list): Example: Vitamin C	Nature's Bounty	500 mg tablets - 1 per day

3. How do you administer pills to your pet?

I do not give any medications
 I put them directly in my pet's mouth without food
 I put them in my pet's dog/cat food
 I put them in a Pill Pocket or similar product
 I put them in foods (list foods): small piece of chicken

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

Amino Acid Lab taurine panel 4/17/19

29082 OPL
QWB

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

B6
Canine
3:54 PM
SHIP IN ICE PACKS, TAURINE
PANEL
Lithium Heparin
Lush

Veterinarian Contact: **B6**

Clinic/Company Name: Tufts Cummings School of Vet. Med. - Clinical Pathology Laboratory

Address: 200 Westboro Road, North Grafton, MA 015369

Email: Clinpath@tufts.edu cardiovet@tufts.edu

Telephone: 508-887-4669 Fax: 508-839-7936

Billing Contact: **B6** Email: **B6**

Billing Contact Phone: **B6** Tax ID: _____

Patient Name: **B6** Species: Canine

Breed: Golden Ret. Owner's Name: **B6**

Current Diet: Blue Buffalo Chicken LID

Sample type: Plasma Whole Blood Urine Food Other _____

Test: Taurine Complete Amino Acids Other: _____

Taurine Results (lab use only)

Plasma: **B6** Whole Blood: **B6** Urine: _____ Food: _____

B6

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

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

Client: **B6**
Patient:

Troponin 5/31/2019



Gastrointestinal Laboratory
Dr. J.M. Steiner
Department of Small Animal Clinical Sciences
Texas A&M University
4474 TAMU
College Station, TX 77843-4474



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

GI Lab Assigned Clinic ID: 23523

Dr. Rush
Tufts Cummings School of Vet Med - Cardiology/Nutrition
200 Westboro Road
North Grafton, MA 01536
USA

Phone: 508 887 4696
Fax:
Animal Name: **B6**
Owner Name:
Species: Canine
Date Received: May 30, 2019

Tufts Cummings School of Vet Med -
Cardiology/Nutrition Tracking Number:
444016

GI Lab Accession: **B6**

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

B6

Comments:

GI Lab Contact Information

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

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

Discharge Instructions
Cardiology Technician Appointment - ENROLLED IN DCM DIET STUDY

Patient

Name: B6

Species: Canine

Gold Male (Neutered) Golden Retriever

Birthdate: B6

Owner

Name: B6

Address: B6

Patient ID: B6

Attending Cardiologist:

John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC

B6

Cardiology Resident:

B6

Cardiology Technician:

B6

Discharge Date: B6

Clinical Findings:

B6 came in today to recheck bloodwork and an ECG. His bloodwork looked great and seems to be tolerating the medications well. The ECG still showed arrhythmia (VPCs). We discussed a few options of the next steps: 1) Continue to monitor 2) Do a 24-hour holter monitor 3) Purchase the Kardia ECG and send us at home ECG readings 4) start an antiarrhythmic.

At this time, it was decided to purchase the Alivacor/Kardia device. We went over the device and how to use it in the room. There are also directions attached to the discharges. I will send the readings to Dr Rush for review when he is back next week and if he feels an additional medication is needed, then i will call or email you with what he recommends.

Monitoring at home:

We would like you to monitor B6 breathing rate and effort at home, ideally during sleep or at a time of rest. The doses of drugs will be adjusted based on the breathing rate and effort. In general, most dogs with heart failure that is well controlled have a breathing rate at rest of less than 35 breaths per minute. In addition, the breathing effort, noted by the amount of belly wall motion used for each breath, is fairly minimal if heart failure is controlled. An increase in breathing rate or effort will usually mean that you should give an extra dose of B6. If difficulty breathing is not improved within 30-60 minutes after giving B6 then we recommend that a recheck exam be scheduled and/or that B6 be evaluated by an emergency clinic. There are instructions for monitoring breathing, and a form to help keep track of breathing rate and drug doses, on the Tufts HeartSmart web site (<http://vet.tufts.edu/heartsmart/at-home-monitoring/>).

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 notice an episode of collapse, it is okay to help the dog get back up; however, most dogs will get up on their own in about 20 minutes. If an episode of collapse occurs, we would like to know about it right away.

Medications:

B6

Recheck Visits:

A recheck has been scheduled for

Thursday, July 18th at 1:00pm with Dr. John Rush

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

B6 was such a good boy today.

Kind Regards

B6 CVT, VTS (Cardiology)

Please visit our HeartSmart website for more information

<http://vet.tufts.edu/heartsmart/>

Prescription Refill Disclaimer:

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

Ordering Food:

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

Clinical Trials:

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

Case: **B6**

Owner: **B6**

Discharge Instructions

Client: **B6**
Patient:

ECG from cardio

B6

4/30/2019 11:53:50 AM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client:
Patient:

B6

ECG from cardio

B6

4/30/2019 11:54:19 AM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client:
Patient:

B6

ECG from cardio

B6

4/30/2019 11:54:41 AM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

12-Lead, Standard Placement

B6

Client:
Patient:

B6

ECG from cardio

B6

4/30/2019 11:55:39 AM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

12-Lead Standard Placement

B6

Client: **B6**
Patient:

ECG from cardio

B6

4/30/2019 11:58:37 AM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client:
Patient:

B6

ECG from cardio

B6

4/30/2019 12:00:51 PM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

12 Lead: Standard Placement

B6

From: PFR Event <pfpreventcreation@fda.hhs.gov>
To: Cleary, Michael *; HQ Pet Food Report Notification; [B6]
Sent: 4/29/2019 8:12:57 PM
Subject: PureVita Venison & Red Lentils Grain-Free Dry Dog Food; [B6] - EON-386301
Attachments: 2066404-report.pdf; 2066404-attachments.zip

A PFR Report has been received and PFR Event [EON-386301] has been created in the EON System.

A "PDF" report by name "2066404-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 "2066404-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-386301

ICSR #: 2066404

EON Title: PFR Event created for PureVita Venison & Red Lentils Grain-Free Dry Dog Food, NutriSource Adult Chicken and Rice formula; 2066404

AE Date	03/01/2019	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	American Pit Bull Terrier		
Age	[B6] Years		
District Involved	PFR-New England DO		

Product information

Individual Case Safety Report Number: 2066404

Product Group: Pet Food

Product Name: PureVita 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. Patient was placed on [B6] Taurine levels prior to supplementation was WNL.

Submission Type: Initial

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

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

Number of Animals Treated With Product: 1

Number of Animals Reacted With Product: 1

Product Name	Lot Number or ID	Best By Date
NutriSource Adult Chicken and Rice formula		
PureVita Venison & Red Lentils Grain-Free Dry Dog Food		

Sender information

B6

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.

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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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-386301	
ICSR:	2066404
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:	2019-04-29 16:02:28 EDT
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 Taurine levels prior to supplementation was WNL.
	Date Problem Started: 03/01/2019
	Concurrent Medical Problem: No
	Outcome to Date: Stable
Product Information:	Product Name: NutriSource Adult Chicken and Rice formula
	Product Type: Pet Food
	Lot Number:
	UPC: 9B15P 18581
	Package Type: BAG
	Package Size: 30 Pound
	Possess Opened Product: Yes
	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: Dog
	Type Of Breed: American Pit Bull Terrier
	Gender: Male
	Reproductive Status: Neutered
	Weight: 32 Kilogram
	Age: B6 Years
	Assessment of Prior Health: Excellent
	Number of Animals Given the Product: 1
	Number of Animals Reacted: 1
Owner Information: Owner Yes	

	Information provided:							
	Contact:	<table border="1"> <tr> <td>Name:</td> <td>B6</td> </tr> <tr> <td>Phone:</td> <td></td> </tr> <tr> <td>Email:</td> <td>B6</td> </tr> </table>	Name:	B6	Phone:		Email:	B6
Name:	B6							
Phone:								
Email:	B6							
	Address:	<table border="1"> <tr> <td>B6</td> </tr> <tr> <td>United States</td> </tr> </table>	B6	United States				
B6								
United States								
Healthcare Professional Information:	Practice Name:	Tufts Cummings School of Veterinary Medicine						
	Contact:	<table border="1"> <tr> <td>Name:</td> <td>B6</td> </tr> <tr> <td>Phone:</td> <td></td> </tr> <tr> <td>Email:</td> <td>B6</td> </tr> </table>	Name:	B6	Phone:		Email:	B6
	Name:	B6						
	Phone:							
	Email:	B6						
	Address:	200 Westboro Road North Grafton Massachusetts 01536 United States						
	Practice Name:	Tufts University						
Contact:	<table border="1"> <tr> <td>Name:</td> <td>Lisa Freeman</td> </tr> <tr> <td>Phone:</td> <td>(508) 887-4523</td> </tr> <tr> <td>Email:</td> <td>lisa.freeman@tufts.edu</td> </tr> </table>	Name:	Lisa Freeman	Phone:	(508) 887-4523	Email:	lisa.freeman@tufts.edu	
Name:	Lisa Freeman							
Phone:	(508) 887-4523							
Email:	lisa.freeman@tufts.edu							
Type of Veterinarian:	Referred veterinarian							
Permission to Release Records to FDA:	Yes							
Sender Information:	Name:	B6						
	Address:	200 Westboro Road North Grafton Massachusetts 01536 United States						
	Contact:	<table border="1"> <tr> <td>Phone:</td> <td>B6</td> </tr> <tr> <td>Email:</td> <td>B6</td> </tr> </table>	Phone:	B6	Email:	B6		
Phone:	B6							
Email:	B6							
	Permission To Contact Sender:	Yes						
	Preferred Method Of Contact:	Email						
	Reported to Other Parties:	None						
Additional Documents:	Attachment:	Med records pt 2.pdf						
	Description:	Medical Records						
	Type:	Medical Records						
	Attachment:	Med records pt 1 4-29-2019.pdf						
	Description:	Medical Records						
	Type:	Medical Records						

Client: **B6**
Patient:

Research cbc/chem 4/26/2019



Tufts Cummings School Of Veterinary Medicine

200 Westboro Road
North Grafton, MA 01536

Name/DOB: B6	Sex: CM	Provider: Dr. Lisa Freeman
Patient ID: B6	Age: 2	Order Location: Foster Hospital for Small Animals
Phone number:	Species: Canine	Sample ID: 1904260155
Collection Date: 4/26/2019 4:57 PM	Breed: Pit Bull	
Approval date: 4/26/2019 5:57 PM		

CBC, Comprehensive, Sm Animal (Research)

SMACHUNSKI		Ref. Range/Males
WBC (ADVIA)	B6	4.40-15.10 K/uL
RBC (Advia)	B6	5.80-8.50 M/uL
Hemoglobin (ADVIA)	B6	13.3-20.5 g/dL
Hematocrit (Advia)	B6	39-55 %
MCV (ADVIA)	B6	64.5-77.5 fL
MCH (ADVIA)	B6	21.3-25.9 pg
CHCM	B6	
MCHC (ADVIA)	B6	31.9-34.3 g/dL
RDW (ADVIA)	B6	11.9-15.2
Platelet Count (Advia)	B6	173-486 K/uL
04/26/19 5:54 PM	platelets per 100x field (estimated count of 200,000-500,000/uL)	
Mean Platelet Volume (Advia)	B6	8.29-13.20 fl
04/26/19 5:30 PM	Platelet clumps (if present) and sample age (greater than 4 hours) can result in a falsely increased MPV.	
Platelet Crit	B6	0.129-0.403 %
04/26/19 5:30 PM	Platelet Crit is invalid when clumped platelets are present. Interpretation of PltCt is unclear in species other than canines.	
PDW	B6	
Reticulocyte Count (Advia)	B6	0.20-1.60 %
Absolute Reticulocyte Count (Advia)	B6	14.7-113.7 K/uL
CHr	B6	
MCVr	B6	

Microscopic Exam of Blood Smear (Advia)

SMACHUNSKI		Ref. Range/Males
Seg Neuts (%)	B6	43-86 %
Lymphocytes (%)	B6	7-47 %
Monocytes (%)	B6	1-15 %
Eosinophils (%)	B6	0-16 %
Seg Neutrophils (Abs) Advia	B6	2.800-11.500 K/uL
Lymphs (Abs) Advia	B6	1.00-4.80 K/uL
Mono (Abs) Advia	B6	0.10-1.50 K/uL
Eosinophils (Abs) Advia	B6	0.00-1.40 K/uL
WBC Morphology	B6	
RBC Morphology	B6	

Research Chemistry Profile - Small Animal (Cobas)

Sample ID: 1904260155/1
This report continues... (Final)

Reviewed by: _____

Client: **B6**
Patient:

Research cbc/chem 4/26/2019



Tufts Cummings School Of Veterinary Medicine

200 Westboro Road
North Grafton, MA 01536

Name/DOB: **B6** Sex: CM Provider: Dr. Lisa Freeman
Patient ID: **B6** Age: 2 Order Location: Foster Hospital for Small Animals
Phone number: Species: Canine Sample ID: 1904260155
Collection Date: 4/26/2019 4:57 PM Breed: Pit Bull
Approval date: 4/26/2019 5:57 PM

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

		Ref. Range/Males
SMACHUNSKI		
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		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		0.10-0.30 mg/dL
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
Amylase		409-1250 U/L
Osmolality (calculated)		291-315 mmol/L

Sample ID: 1904260155/2
END OF REPORT (Final)

Reviewed by: _____
Page 2

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

Idexx NT-proBNP 4/26/2019

IDEXX Reference Laboratories

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

Client: **B6**
Patient: **B6**
Species: CANINE
Breed: AMERICAN_PIT_BU
Gender: MALE NEUTERED
Age: 2Y

Date: **B6**
Requisition #: 1A
Accession #: **B6**
Ordered by: **B6**

IDEXX VetConnect 1-888-433-9967
TUFTS UNIVERSITY
200 WESTBORO RD
NORTH GRAFTON, Massachusetts 01536
508-839-5395
Account #88933

CARDIOPET proBNP- CANINE

Test	Result	Reference Range	Low	Normal	High
CARDIOPET proBNP- CANINE	B6	0 - 900 pmol/L	HIGH		B6

Comments:

B6

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

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

Diet Hx 4/26/2019

B6

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

Pet's name: **B6** Owner's name: **B6** Today's date: 4/26/19

1. How would you assess your pet's appetite? (mark the point on the line below that best represents your pet's appetite)
- Example: Poor _____ | _____ Excellent
- Poor _____ | _____ Excellent

2. Have you noticed a change in your pet's appetite over the last 1-2 weeks? (check all that apply)
- Eats about the same amount as usual Eats less than usual Eats more than usual
- Seems to prefer different foods than usual Other I have reduced his intake because of switching to grain foods
3. Over the last few weeks, has your pet (check one)
- Lost weight Gained weight Stayed about the same weight Don't know
1. Please list below ALL pet foods, people food, treats, snack, dental chews, rawhides, and any other food item that your pet currently eats and that you have fed in the last 2 years.

Please provide enough detail that we could go to the store and buy the exact same food - examples are shown in the table

Food (include specific product and flavor)	Form	Amount	How often?	Dates fed
Nutro Grain Free Chicken, Lentil, & Sweet Potato Adult	dry	1 1/2 cup	2x/day	Jan 2016-present
85% lean hamburger	microwaved	3 oz	1x/week	June - Aug 2016
Pupperoni original beef flavor	treat	1/2	1x/day	Sept 2016-present
Rawhide	treat	6 inch twist	1x/week	Dec 2018-present
Nutra Source PureVita Venison + Red Lentils	dry	2 cups	2x/day	Aug 2018 - Mar 2019
Natural Balance Venison + Sweet Potato	dry CAN	3 TBS	2x/day	Aug 2018 - Mar 2019
Natural Balance Venison + Sweet Potato	Treat	6 Treats/day	6 A day	Aug 2018 - Mar 2019
Natural Balance Sweet Potato + Fish	Treat	11 SAME	6 A day	Aug 2018 - Mar 2019
Nutra Source Chicken + Rice Formula	dry	1.5 cups	2x/day	Mar 2019 - present
"	can	1.5 TBS	2x/day	Mar 2019 - present
Pupperoni dog TREATS	treat	1/2	1x/day	Mar 2019 - present
Milk Bone Small Marrow	treat	4	1x/day	Mar 2019 - present
Pigeons	treat	1	1x/week	Mar 2019 - present
Femur + Knuckle Bone	treat	1	1x/week	Mar 2019 - present

*Any additional diet information can be listed on the back of this sheet

2. Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any other supplements)? Yes No If yes, please list which ones and give brands and amounts:
- | | Brand/Concentration | Amount per day |
|--|--|-----------------------------------|
| Taurine | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <u>CAN</u> | <u>2000 mg</u> |
| Carnitine | <input type="checkbox"/> Yes <input type="checkbox"/> No _____ | _____ |
| Antioxidants | <input type="checkbox"/> Yes <input type="checkbox"/> No _____ | _____ |
| Multivitamin | <input type="checkbox"/> Yes <input type="checkbox"/> No _____ | _____ |
| Fish oil | <input type="checkbox"/> Yes <input type="checkbox"/> No _____ | _____ |
| Coenzyme Q10 | <input type="checkbox"/> Yes <input type="checkbox"/> No _____ | _____ |
| Other (please list):
Example: Vitamin C | <u>Nature's Bounty</u> | <u>500 mg tablets - 1 per day</u> |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

3. How do you administer pills to your pet?
- I do not give any medications
- I put them directly in my pet's mouth without food
- I put them in my pet's dog/cat food
- I put them in a Pill Pocket or similar product
- I put them in foods (list foods): _____

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

rDVM Cardiology report 3/14/2019

Dear Doctors,

Please see the accompanying cardiology report for our mutual patient. Thank you for the referral and your continued support of **B6**. Please contact me if you need any more information regarding this patient. As I am only at **B6** once to twice per month, email (see below) is the best mode of communication for me.

B6

Consulting Cardiologist: **B6**

Client: **B6**
Patient:

rDVM Cardiology report 3/14/2019

Client: **B6**
Patient: **B6** (2yo MN pit bull)

Examination Date: 3/14/19

CARDIOLOGY EXAMINATION

HISTORY: Cough x 2 weeks, decreased appetite. Admitted yesterday for monitoring/echo. Started on **B6** (rDVM) 50mg SQ q 8 h **B6**. Taurine drawn/not yet submitted. ECG 100 bpm NSF. TFAST suspect DCM. rDVM rads in record.

MEDICATIONS:

DIET: grain free pork and pea

WEIGHT: 27 kg

PHYSICAL EXAMINATION:

Sedate. BCS 4/9. Adequate hydration

Mm color: pink, CRT: 1.5 sec

Chest conformation: normal

Heart rate: 100/minute. Rhythm: regular. PMI: Left apex.

Murmurs: Grade III/VI left apical systolic murmur

Pulmonary auscultation: clear

Femoral pulse quality: moderate, synchronous

Other Comments: Moderate diffuse muscle atrophy. Sedated with **B6** 2mg/kg IV with great effect.

ECHOCARDIOGRAM

Two-dimensional description:

The left atrium is moderately to severely enlarged. The mitral valve leaflets are normal thickness. The left ventricular chamber is severely dilated with normal to thin walls and significantly reduced wall motion. The aortic valve leaflets and aortic root are normal. The right atrium and right ventricle are moderately enlarged. Remainder of the right heart appears normal. No masses or effusions noted.

Cardiac rhythm during study appeared regular.

2-D measurements:

LA (cm) Ao (cm) LA/Ao

B6

M-mode measurements:

IVSd (cm) LVIDd (cm) LVFWd (cm) FS (%) LA (cm) Ao (cm) LA/Ao

B6

IVSs (cm) LVIDs (cm) LVFWs (cm)

B6

Doppler findings:

B6

Consulting Cardiologist: **B6**

Client: **B6**
Patient:

rDVM Cardiology report 3/14/2019

B6

ECHOCARDIOGRAPHIC DIAGNOSIS:

1. Dilated cardiomyopathy (severe left atrial and left ventricular enlargement; moderate right atrial and right ventricular enlargement; severely reduced left ventricular wall motion)
2. Mild mitral and trace tricuspid regurgitations – likely from annular stretch secondary to #1

RADIOGRAPHIC FINDINGS: 2 view thorax, rDVM: The cardiac silhouette is severely and globally enlarged. The pulmonary vasculature is moderately dilated. There is a moderate to severe bilateral caudodorsal interstitial pattern consistent with congestive heart failure.

****** FINAL REPORT *******

FINAL DIAGNOSIS:

1. Dilated cardiomyopathy (severe left atrial and left ventricular enlargement; moderate right atrial and right ventricular enlargement; severely reduced left ventricular wall motion) – R/O nutritional (taurine deficiency or secondary to grain free/pork based diet) vs familial vs hypothyroidism
2. Mild mitral and trace tricuspid regurgitations – likely from annular stretch secondary to #1
3. Congestive heart failure (pulmonary edema), 3/13/19

DIAGNOSTIC RECOMMENDATIONS:

B6

THERAPEUTIC RECOMMENDATIONS:

B6

FOLLOW UP SCHEDULE:

- 10-14 days for recheck exam, renal panel, CXR.
- 3 months for echocardiogram

*There is a chance that some of **B6** cardiac disease may be reversible if this is secondary to nutritional cause. However, even some patients with diet-induced DCM can have irreversible cardiac changes. Thus, prognosis is variable and will be determined based on followup testing.

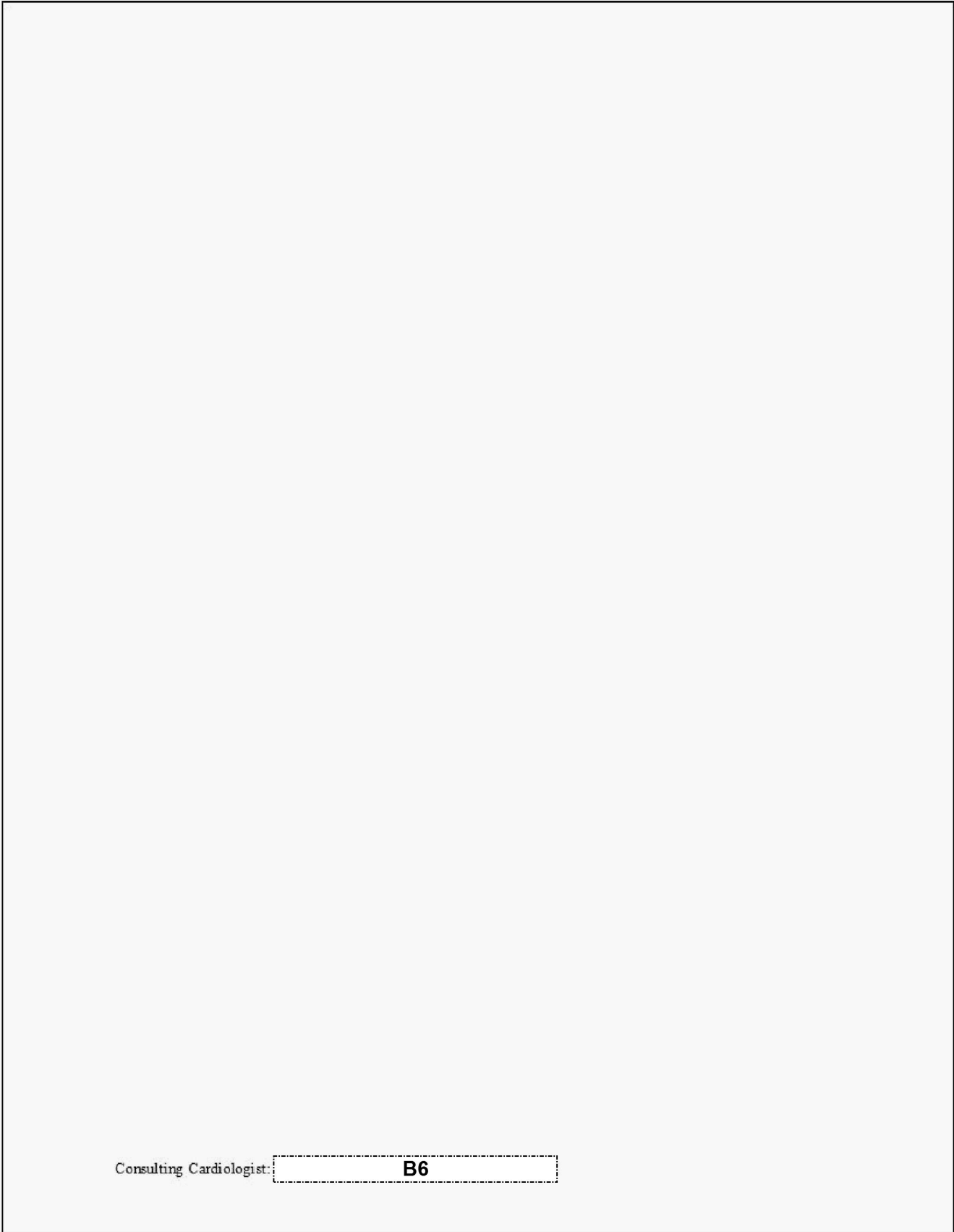
Consulting Cardiologist: **B6**

Consulting Cardiologist: **B6**

Client:
Patient:

B6

rDVM Cardiology report 3/14/2019



Consulting Cardiologist:

B6

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

B6 thyroid panel 3/14/2019

03/16/2019 4:39:12 AM -0700

PAGE 1 OF 1

B6

B6

Accession No. **B6**
Received 03/14/2019
Reported 03/16/2019 04:32 AM

Owner	Pet Name	Species	Breed	Sex	Pet Age	Chart#
B6	B6	Canine	Other	CM	3Y	53241
Test Requested	Results	Reference Range	Units			
T4	B6	0.8-3.5	µg/dL			
FREE T4 BY EQUILIBRIUM DIALYSIS Free T4 (Dialysis)		8-40	pmol/L			
TSH		0 - 0.60	ng/mL			

While many dogs with primary hypothyroidism have elevated cTSH concentrations, up to one third of affected dogs have normal or low cTSH concentrations, for reasons that are unclear. In those cases where TSH concentrations are normal and hypothyroidism is still strongly suspected, consider performing a free T4 and/or thyroglobulin autoantibodies.

Client:
Patient:

B6

Vitals Results

4/26/2019 2:52:48 PM

Weight (kg)

32.0000

Client:
Patient:

B6

Medical Record Image



B6

Client:
Patient:

B6

Medical Record Image

B6

Client: **B6**
Patient:

Medical Record Image

B6

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

ECG from Cardio

B6

4/26/2019 4:27:10 PM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

12 Lead: Standard Placement

B6

Client:
Patient:

B6

ECG from Cardio

B6

4/26/2019 4:27:45 PM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

12-Lead Standard Placement

B6

Client: **B6**
Patient:

ECG from Cardio

B6

4/26/2019 4:28:13 PM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

12 Lead: Standard Placement

B6

Discharge Instructions

Patient

Name: B6

Species: Canine

Mahogany Male (Neutered) Pit Bull

Birthdate: B6

Owner

Name: B6

Address: B6

Patient ID: B6

Attending Cardiologist:

John E. Rush, DVM, MS, DACVIM (Cardiology), DACVECC

B6

Cardiology Resident:

B6

Cardiology Technician:

B6

Student: B6 V19

Admit Date: 4/26/2019 2:17:55 PM

Discharge Date: 4/26/2019

Diagnoses: Dilated cardiomyopathy (DCM) with history of congestive heart failure

Case summary:

B6 was diagnosed with a heart muscle disease called dilated cardiomyopathy (DCM) in March. He was started on several cardiac medications at that time as well as a change in diet since he had been on a grain-free diet. Since then, he has shown improvement in his appetite and weight; however, he is still coughing and experiencing some exercise intolerance. On physical examination today, he is very bright and alert. We could hear a small Grade II/VI heart murmur that was noted previously.

We performed an echocardiogram (ultrasound of the heart) which confirmed B6 still has DCM. This disease is characterized by thinning of the walls of the heart, reduced cardiac pump function, and enlargement of the upper chambers of the heart. B6 has a leak at his mitral valve (valve between his left atrium and ventricle) which is the cause of his murmur. His mitral valve is slightly thickened as well so he could also have a component of a congenital mitral valve disease. The medications he is currently on are the same medications we would be using to treat any mitral valve disease. An ECG was performed to evaluate his heart rhythm which showed normal rhythm today. We also took chest x-rays to determine if he still has evidence of fluid in his lungs that could be contributing to his cough. His x-rays are improved compared to those taken previously by his primary care veterinarian but his lungs still have residual fluid. Because of this, we made adjustments to his medications as detailed below. Finally, we also collected blood to ensure his kidneys are tolerating his cardiac medications and for cardiac biomarkers useful for monitoring his disease progression and for the research study. We will call you with the results of this bloodwork.

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.
- In general, most dogs with heart failure that is well controlled have a breathing rate at rest of less than 35 to 40 breaths per minute. In addition, the breathing effort, noted by the amount of belly wall motion used for each breath, is fairly minimal if heart failure is controlled.
- An increase in breathing rate or effort will usually mean that you should give an extra dose of **B6** if difficulty breathing is not improved by within 30-60 minutes after giving extra furosemide then we recommend that a recheck exam be scheduled and/or that your dog be evaluated by an emergency clinic.
- There are instructions for monitoring breathing, and a form to help keep track of breathing rate and drug doses, on the Tufts HeartSmart web site (<http://vet.tufts.edu/heartsmart/at-home-monitoring/>).
- We also want you to watch for weakness or collapse, a reduction in appetite, worsening cough, or distention of the belly as these findings indicate that we should do a recheck examination.
- If you have any concerns, please call or have your dog evaluated by a veterinarian. Our emergency clinic is open 24 hours/day.

Recommended Medications:

B6

Diet suggestions:

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

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

- The FDA is currently investigating an apparent association between diet and a type of heart disease called dilated cardiomyopathy. The exact cause is still unclear, but it appears to be associated with boutique diets and those

containing exotic ingredient or are grain-free. Therefore, we are currently recommending that dogs do not eat these types of diets.

- We recommend switching **B6** to commercial diet made by a well-established company that is not grain-free and does not contain any exotic ingredients, such as kangaroo, duck, lamb, venison, lentils, peas, beans, buffalo, tapioca, barley, and chickpeas.
- The FDA issued a statement regarding this issue (<https://www.fda.gov/AnimalVeterinary/NewsEvents/CVMUpdates/uom613305.htm>) and a recent article published by Dr. Lisa Freeman on the Cummings School's Pet Foodology blog can further explain these findings (<http://vetnutrition.tufts.edu/2018/06/a-broken-heart-risk-of-heart-disease-in-boutique-or-grain-free-diets-and-exotic-ingredients/>).
- Our nutritionists have compiled a list of dog foods that are good options for dogs with heart disease.

Dry Food Options:

Royal Canin Early Cardiac (veterinary diet)

Royal Canin Boxer

Purina Pro Plan Adult Weight Management

Purina Pro Plan Bright Mind Adult Small Breed Formula

Canned Food Options:

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

Royal Canin Mature 8+

We think Royal Canin Boxer or the Royal Canin Early Cardiac diets would be good choices for Dexter. We have sent you home with a sample of the Royal Canin Boxer diet. If your dog has special nutritional needs or requires a homecooked diet, we recommend you schedule an appointment with our nutritionists (508-887-4696).

Exercise Recommendations:

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

Recheck Visits:

A recheck visit is scheduled for Friday, May 3rd at 11:00 AM to recheck his bloodwork to see if he is tolerating the changes to his medications. Additionally, recheck visits at 3 months and 6 months are needed for monitoring and would be covered by the DCM study.

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

Please visit our HeartSmart website for more information

<http://vet.tufts.edu/heartsmart/>

Prescription Refill Disclaimer:

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

Ordering Food:

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

Clinical Trials:

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

Case: **B6**

Owner: **B6**

Discharge Instructions

Nutritional Tips for Pets with Heart Disease

Low sodium, high quality pet treats

Notes:

1. Most other dog treats are high in sodium.
2. If your pet has other medical conditions, these treats may not be appropriate. Talk to your veterinarian if you have questions or make an appointment with the Nutrition Service.

Product	Calories per treat
Dogs	
Hill's Science Diet Baked Light Biscuits with Real Chicken Small Dog Treat	8
Hill's Science Diet Baked Light Biscuits with Real Chicken Medium Dog Treat	34
Hill's Science Diet Soft Savories Peanut Butter & Banana, Beef & Cheddar, or Chicken & Yogurt Dog Treat	25-27, depending on flavor
Hill's Ideal Balance Soft-Baked Naturals with Chicken & Carrots, Duck & Pumpkin, or Beef & Sweet Potato Dog Treat	12-13, depending on flavor
Purina Beyond Natural Salmon Dog Biscuit Treat with Oats or Chicken & Barley	27-29, depending on flavor
Purina Alpo Variety Snaps Little Bites (beef, chicken, liver, lamb or beef, bacon, cheese, peanut butter)	16
Purina Alpo Variety Snaps Big Bites (beef, chicken, liver, lamb)	58
Royal Canin Original Canine treat	5
Cats	
Royal Canin Original Feline treat	2
Fancy Feast Duos Natural Rotisserie Chicken Cat treat	2
Fancy Feast Duos Tuna with Accents of Parsley Cat treat	2

Taste enhancers to can make your pet's food tastier to increase food intake

Safe and effective appetite stimulants are now available for dogs and cats. Please talk to your veterinarian if your pet is not eating well, not eating ideal foods, or is losing weight.

Notes:

1. All foods in this list should be prepared without salt
2. These taste enhancers should be added in small amounts. If your pet eats too much of them, they will unbalance the diet and increase your pet's risk for nutritional deficiencies

Dogs

- ♥ Honey or maple syrup
- ♥ Homemade chicken, beef, or fish broth (made without salt; avoid all deli meats and rotisserie chicken). Avoid store bought broths because even the low sodium brands are too high in sodium.
- ♥ Sugar (brown or white) – Domino pourable light brown sugar is a good option
- ♥ Vanilla or fruit yogurt – One option that dogs seem to like is Yoplait Custard Yogurt (caramel or vanilla flavors). If you try other brands, just be sure the sodium is less than 100 mg per 100 calories (the Yoplait is 95 mg per 170 calories which comes out to 56 mg sodium per 100 calories). Also avoid yogurts with artificial sweeteners.
- ♥ Maple syrup. Low salt brands include Log Cabin All Natural, Maple Grove Farm 100% pure maple syrup, or Stop and Shop Original Syrup
- ♥ Applesauce (be sure they have less than 50 mg sodium per serving)
- ♥ Ketchup (no salt added). Examples include Hunts or Heinz no salt added
- ♥ Pasta sauce (no salt added). Examples: Francesco Rinaldi no salt added or Enrico's no salt added)
- ♥ Frosted Mini Wheats Original – these can be crumbled on his food
- ♥ Lean meats, cooked (chicken, turkey, beef, or fish) – not deli/sandwich meats/cold cuts, rotisserie chicken, and any canned fish or meat
- ♥ Eggs, cooked

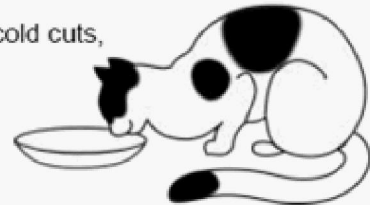


Dogs (continued)

- ♥ Homemade chicken, beef, or fish broth (even low sodium store-bought broths are too high in sodium). Avoid all canned soups unless labeled as no salt added
- ♥ Low-salt breakfast cereal - the label should read, "very low sodium food" or contain less than 20 mg sodium per serving. A good option is Frosted Mini Wheats Original or Little Bites Original
- ♥ Fresh vegetables/fruit. Examples include carrots, green beans, apple, orange, banana (avoid grapes, raisins, onions, garlic)
- ♥ Low sodium canned dog foods

Cats

- ♥ Lean meats, cooked (chicken, turkey, beef, or fish) – not sandwich meats/cold cuts, canned tuna, or rotisserie chicken
- ♥ Eggs, cooked
- ♥ Homemade chicken, beef, or fish broth (even low sodium store-bought broths are too high in sodium)
- ♥ Low sodium canned cat foods



Foods to avoid

- ♥ Fatty foods (meat trimmings, cream, ice cream)
- ♥ Baby food
- ♥ Pickled foods
- ♥ Bread
- ♥ Pizza
- ♥ Condiments (ketchup, soy sauce, barbecue sauce, etc – unless they are unsalted or no salt added)
- ♥ Sandwich meats/cold cuts (ham, corned beef, salami, sausages, bacon, hot dogs)
- ♥ Rotisserie chicken
- ♥ Most cheeses, including "squirtable" cheeses
- ♥ Processed foods (such as, potato mixes, rice mixes, macaroni and cheese)
- ♥ Canned vegetables (unless "no salt added")
- ♥ Potato chips, packaged popcorn, crackers, and other snack foods
- ♥ Soups (unless homemade without salt)
- ♥ Most commercial pet treats

Tips for administering medications

Foods commonly used to administer your pet's pills can provide a large amount of additional salt to your pet's diet. Preferable ways to give medications include:

- ♥ Have one of our staff show you how to give medications without using food
- ♥ Insert medications into one of the following foods:

Dogs or cats

- Low-sodium canned pet food
- Home-cooked meat such as chicken or hamburger (made without salt); not lunch meats
- Whipped cream (Reddi Wip)
- Marshmallows
- Greenies Pill Pockets
 - Dog chicken, hickory smoke, or peanut butter flavors; cat chicken or salmon flavor
 - Avoid grain-free duck and pea which is high in sodium
 - Try to use the smallest size possible (ideally, the cat sized Pill Pockets, even for dogs) and as few as possible to avoid excessive salt.
 - Caution: Not all similar products from other companies are low in sodium .

Dogs

- Soft fruit, such as banana, orange, melon, or strawberries (avoid grapes)
- Peanut butter (only if labeled as "no salt added") – examples include Smucker's Natural Creamy Peanut Butter with No Salt Added or Teddie All Natural Smooth Unsalted Butter
- Frosting (should be less than 75 mg/serving and contain no artificial sweeteners or xylitol). Examples include Duncan Hines whipped vanilla frosting, Betty Crocker whipped vanilla frosting)

You may find our Petfoodology post called, "Pill-popping pets" helpful for additional ideas:

http://vetnutrition.tufts.edu/2018/09/foods_for_giving_pills/

Cummings Veterinary Medical Center

AT TUFTS UNIVERSITY

Cardiology Liaison: 508-887-4696

B6

Patient ID: B6

B6

Canine

B6 Years Old Male (Neutered) Pit Bull
Mahogany

Cardiology Appointment Report DCM STUDY

Date: 4/26/2019

Attending Cardiologist:

John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC

B6

Cardiology Resident:

B6

Cardiology Technician:

B6

Student: B6 V19

Presenting Complaint: DCM

Concurrent Diseases:

None

General Medical History:

Diagnosed with DCM in March.

In March, owners noticed he was coughing alot and had labored breathing. rDVM did x-ray and showed enlarged heart. Also treated for potential kennel cough at that time. Referred to B6 (emergency room) where they did cardiac workup which showed DCML. He was immediately started on cardiac medications and diet change. Since starting meds and changing diet, still coughing but gaining weight. Coughing in the middle of the night, after exercise/excitement; roughly 10 times per day. Owner trying to limit exercise, but B6 has always had good energy. After exercise sometimes seems to have trouble catching his breath. Owner has not been counting RR at home. Appetite has been decreased prior to DCM diagnosis but has improved since starting meds.

Diet and Supplements:

Previous diet: Venison and red lentils (Pure Vida), canned food- natural balance venice and sweet potatoe; treats- natural balance venison and fish

Current Diet: Nutri Source Chicken and Rice (dry and canned), treats, cooked chicken.

Cardiovascular History:

Prior CHF diagnosis? Yes

Prior heart murmur? Y Grade II/VI left sided

Prior ATE? N

Prior arrhythmia?

Monitoring respiratory rate and effort at home? Effort increased during exercise, not monitoring rate

Cough? Yes

Shortness of breath or difficulty breathing? After exercise

Syncope or collapse? No

Sudden onset lameness? No

Exercise intolerance? Tires easier because of cough

Current Medications Pertinent to CV System:

B6

Cardiac Physical Examination:

B6

Muscle condition:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Normal | <input type="checkbox"/> Moderate cachexia |
| <input type="checkbox"/> Mild muscle loss | <input type="checkbox"/> Marked cachexia |

Cardiovascular Physical Exam:

Murmur Grade:

- | | |
|---|--------------------------------|
| <input type="checkbox"/> None | <input type="checkbox"/> IV/VI |
| <input type="checkbox"/> I/VI | <input type="checkbox"/> V/VI |
| <input checked="" type="checkbox"/> II/VI | <input type="checkbox"/> VI/VI |
| <input type="checkbox"/> III/VI | |

Murmur location/description: focal left apical systolic

Jugular vein:

- Bottom 1/3 of the neck
- Middle 1/3 of the neck

- 1/2 way up the neck
- Top 2/3 of the neck

Arterial pulses:

- Weak
- Fair
- Good
- Strong

- Bounding
- Pulse deficits
- Pulsus paradoxus
- Other:

Arrhythmia:

- None
- Sinus arrhythmia
- Premature beats

- Bradycardia
- Tachycardia

Gallop:

- Yes
- No
- Intermittent

- Pronounced
- Other:

Pulmonary assessments:

- Eupneic
- Mild dyspnea
- Marked dyspnea
- Normal BV sounds

- Pulmonary crackles
- Wheezes
- Upper airway stridor

Abdominal exam:

- Normal
- Hepatomegaly
- Abdominal distension

- Mild ascites
- Marked ascites

Problems and Differential Diagnoses:

History of DCM: R/O- diet-associated vs. taurine vs. primary

Cough: R/O- secondary to DCM vs. less likely infectious

Diagnostic plan:

- Echocardiogram
- Chemistry profile
- ECG
- Renal profile
- Blood pressure

- Dialysis profile
- +/- Thoracic radiographs
- NT-proBNP
- Troponin I
- Other tests: DCM Study- taurine

Echocardiogram Findings:

B6

Mitral inflow:

- Summated
- Normal

- Pseudonormal
- Restrictive

Delayed relaxation

ECG findings:

sinus arrhythmia

Radiographic findings:

Enlarged cardiac silhouette. The amount of interstitial pattern consistent with pulmonary edema is much improved from rDVM rads. However, there is still residual perihilar interstitial pattern.

Assessment and recommendations:

The patient is still in mild CHF based on radiographs. We are therefore going to increase his Recheck renal values in 1-2 weeks. If renal values are normal at that time, we will increase to BID. Recheck echocardiogram in 3 months. Patient enrolled in the DCM diet study. We recommend switching the patient to the RC Boxer diet.

Final Diagnosis:

DCM with LCHF. R/O diet-induced, primary, toxin
+/- mitral valve dysplasia

Heart Failure Classification Score:

ISACHC Classification:

- Ia
- Ib
- II
- IIIa
- IIIb

ACVIM Classification:

- A
- B1
- B2
- C
- D

M-Mode

IVSd	cm
LVIDd	cm
LVPWd	cm
IVSs	cm
LVIDs	cm
LVPWs	cm
EDV(Teich)	ml
ESV(Teich)	ml
EF(Teich)	%
%FS	%
SV(Teich)	ml
Ao Diam	cm
LA Diam	cm
LA/Ao	
Max LA	cm
TAPSE	cm
EPSS	cm

M-Mode Normalized

IVSdN
LVIDdN
LVPWdN
IVSsN
LVIDsN
LVPWsN
Ao Diam N
LA Diam N

B6

(0.290 - 0.520)
(1.350 - 1.730) !
(0.330 - 0.530)
(0.430 - 0.710)
(0.790 - 1.140) !
(0.530 - 0.780)
(0.680 - 0.890) !
(0.640 - 0.900) !

2D

SA LA
Ao Diam
SA LA / Ao Diam
IVSd
LVIDd
LVPWd
EDV(Teich)
IVSs
LVIDs
LVPWs
ESV(Teich)
EF(Teich)
%FS
SV(Teich)
LVLd A4C
LVEDV MOD A4C
LVLs A4C
LVESV MOD A4C
LVEF MOD A4C
SV MOD A4C

B6

cm
cm

cm
cm
cm
ml
cm
cm
cm
ml
%
%
ml
cm
ml
cm
ml
%
ml

Doppler

MR Vmax
MR maxPG
MV E Vel
MV DecT
MV Dec Slope
MV A Vel
MV E/A Ratio
E'
E/E'
A'
S'
AV Vmax
AV maxPG
PV Vmax
PV maxPG

B6

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

m/s

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

B6

B6 Male (Neutered)
Canine Pit Bull Mahogany
Patient ID: **B6**

Outside Prescription Log

1. **B6**

2. Date:
Clinician:
Prescription:
Pharmacy sent to:
Completed by:
Origin of request:

3. Date:
Clinician:
Prescription:
Pharmacy sent to:
Completed by:
Origin of request:

4. Date:
Clinician:
Prescription:
Pharmacy sent to:
Completed by:
Origin of request:

5. Date:
Clinician:
Prescription:
Pharmacy sent to:
Completed by:
Origin of request:

6. Date:
Clinician:
Prescription:
Pharmacy sent to:
Completed by:
Origin of request:

7. Date:

Clinician:
Prescription:
Pharmacy sent to:
Completed by:
Origin of request:

8. Date:

Clinician:
Prescription:
Pharmacy sent to:
Completed by:
Origin of request:

9. Date:

Clinician:
Prescription:
Pharmacy sent to:
Completed by:
Origin of request:

10. Date:

Clinician:
Prescription:
Pharmacy sent to:
Completed by:
Origin of request:

Cummings
Veterinary Medical Center
AT TUFTS UNIVERSITY

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

B6

B6

Male (Neutered)

Canine Pit Bull Mahogany

B6

4/29/2019

Dear **B6**

Thank you for referring **B6** with their pet **B6**

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

Thank you,

B6

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
Animal Species	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: PureVita 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.

Patient was placed on **B6** Taurine levels prior to supplementation was WNL.

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
NutriSource Adult Chicken and Rice formula		
PureVita Venison & Red Lentils Grain-Free Dry Dog Food		

This report is linked to:

Initial EON Event Key: EON-386301

Initial ICSR: 2066404

Sender information

B6

USA

Owner information

B6

USA

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

B6

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

B6

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Report Details - EON-390031

ICSR:	2067992
Type Of Submission:	Followup
Report Version:	FPSR.FDA.PETF.V.V1
Type Of Report:	Adverse Event (a symptom, reaction or disease associated with the product)
Reporting Type:	Voluntary
Report Submission Date:	2019-06-10 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] Taurine levels prior to supplementation was WNL.
	Date Problem Started:	03/01/2019
	Concurrent Medical Problem:	No
	Outcome to Date:	Better/Improved/Recovering

Product Information:	Product Name:	NutriSource Adult Chicken and Rice formula
	Product Type:	Pet Food
	Lot Number:	
	UPC:	9B15P 18581
	Package Type:	BAG
	Package Size:	30 Pound
	Possess Opened Product:	Yes
	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:	Dog
	Type Of Breed:	American Pit Bull Terrier
	Gender:	Male
	Reproductive Status:	Neutered
	Weight:	32 Kilogram
	Age:	[B6] Years
	Assessment of Prior Health:	Excellent

	Number of Animals Given the Product:	1																										
	Number of Animals Reacted:	1																										
	Owner Information:	<table border="1"> <tr> <td>Owner Information provided:</td> <td>Yes</td> </tr> <tr> <td>Contact:</td> <td> <table border="1"> <tr> <td>Name:</td> <td>B6</td> </tr> <tr> <td>Phone:</td> <td>B6</td> </tr> <tr> <td>Email:</td> <td>B6</td> </tr> </table> </td> </tr> <tr> <td>Address:</td> <td> <table border="1"> <tr> <td>B6</td> </tr> <tr> <td>United States</td> </tr> </table> </td> </tr> </table>	Owner Information provided:	Yes	Contact:	<table border="1"> <tr> <td>Name:</td> <td>B6</td> </tr> <tr> <td>Phone:</td> <td>B6</td> </tr> <tr> <td>Email:</td> <td>B6</td> </tr> </table>	Name:	B6	Phone:	B6	Email:	B6	Address:	<table border="1"> <tr> <td>B6</td> </tr> <tr> <td>United States</td> </tr> </table>	B6	United States												
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B6																												
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	Healthcare Professional Information:	<table border="1"> <tr> <td>Practice Name:</td> <td>Tufts Cummings School of Veterinary Medicine</td> </tr> <tr> <td>Contact:</td> <td> <table border="1"> <tr> <td>Name:</td> <td>B6</td> </tr> <tr> <td>Phone:</td> <td>B6</td> </tr> <tr> <td>Email:</td> <td>B6</td> </tr> </table> </td> </tr> <tr> <td>Address:</td> <td>200 Westboro Road North Grafton Massachusetts 01536 United States</td> </tr> <tr> <td>Practice Name:</td> <td>Tufts University</td> </tr> <tr> <td>Contact:</td> <td> <table border="1"> <tr> <td>Name:</td> <td>Lisa Freeman</td> </tr> <tr> <td>Phone:</td> <td>(508) 887-4523</td> </tr> <tr> <td>Email:</td> <td>lisa.freeman@tufts.edu</td> </tr> </table> </td> </tr> <tr> <td>Type of Veterinarian:</td> <td>Referred veterinarian</td> </tr> <tr> <td>Permission to Release Records to FDA:</td> <td>Yes</td> </tr> </table>	Practice Name:	Tufts Cummings School of Veterinary Medicine	Contact:	<table border="1"> <tr> <td>Name:</td> <td>B6</td> </tr> <tr> <td>Phone:</td> <td>B6</td> </tr> <tr> <td>Email:</td> <td>B6</td> </tr> </table>	Name:	B6	Phone:	B6	Email:	B6	Address:	200 Westboro Road North Grafton Massachusetts 01536 United States	Practice Name:	Tufts University	Contact:	<table border="1"> <tr> <td>Name:</td> <td>Lisa Freeman</td> </tr> <tr> <td>Phone:</td> <td>(508) 887-4523</td> </tr> <tr> <td>Email:</td> <td>lisa.freeman@tufts.edu</td> </tr> </table>	Name:	Lisa Freeman	Phone:	(508) 887-4523	Email:	lisa.freeman@tufts.edu	Type of Veterinarian:	Referred veterinarian	Permission to Release Records to FDA:	Yes
Practice Name:	Tufts Cummings School of Veterinary Medicine																											
Contact:	<table border="1"> <tr> <td>Name:</td> <td>B6</td> </tr> <tr> <td>Phone:</td> <td>B6</td> </tr> <tr> <td>Email:</td> <td>B6</td> </tr> </table>	Name:	B6	Phone:	B6	Email:	B6																					
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Phone:	B6																											
Email:	B6																											
	Permission To Contact Sender:	Yes																										
	Preferred Method Of Contact:	Email																										
	Reported to Other Parties:	None																										
Additional Documents:	Attachment:	Diet Hx 5-3-2019.pdf																										
	Description:	Med records																										
	Type:	Medical Records																										
	Attachment:	Recheck chem 21 5-3-2019.pdf																										
	Description:	Lab work																										
	Type:	Laboratory Report																										

Attachment:	B6	roponin 5-30-2019.pdf
Description:	Lab work	
Type:	Laboratory Report	



Gastrointestinal Laboratory
 Dr. J.M. Steiner
 Department of Small Animal Clinical Sciences
 Texas A&M University
 4474 TAMU
 College Station, TX 77843-4474



Website User ID: **B6**

GI Lab Assigned Clinic ID: 23523

B6 Tufts Cummings School of Vet Med - Cardiology/Nutrition 200 Westboro Road North Grafton, MA 01536 USA	Phone: 508 887 4696 Fax: Animal Name: Owner Name: Species: Canine Date Received: May 30, 2019	B6
---	--	-----------

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

GI Lab Accession: **B6**

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

B6

Comments:

GI Lab Contact Information

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

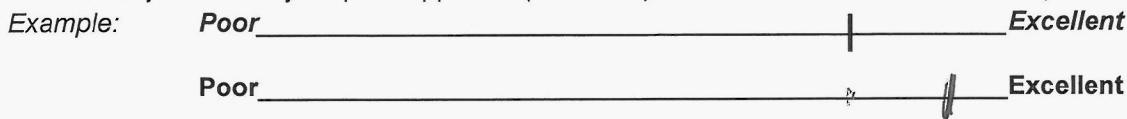
Email: gilab@cvm.tamu.edu
 vetmed.tamu.edu/gilab

CARDIOLOGY DIET HISTORY FORM

Please answer the following questions about your pet

Pet's name: **B6** Owner's name: **B6** Today's date: 5/3/19

1. How would you assess your pet's appetite? (mark the low that best represents your pet's appetite)



2. Have you noticed a change in your pet's appetite over the last 1-2 weeks? (check all that apply)

- Eats about the same amount as usual
- Eats less than usual
- Eats more than usual
- Seems to prefer different foods than usual
- Other _____

3. Over the last few weeks, has your pet (check one)

- Lost weight
- Gained weight
- Stayed about the same weight
- Don't know

1. Please list below ALL pet foods, people food, treats, snack, dental chews, rawhides, and any other food item that your pet currently eats and that you have fed in the last 2 years.

Please provide enough detail that we could go to the store and buy the exact same food - examples are shown in the table

Food (include specific product and flavor)	Form	Amount	How often?	Dates fed
Nutro Grain Free Chicken, Lentil, & Sweet Potato Adult	dry	1 1/2 cup	2x/day	Jan 2016-present
85% lean hamburger	microwaved	3 oz	1x/week	June -Aug 2016
Pupperoni original beef flavor	treat	1/2	1x/day	Sept 2016-present
Rawhide	treat	6 inch twist	1x/week	Dec 2018-present
Royal Canin Boxer	dry	3/4	2x/day	April 2019-present
Science Diet 7+ BEEF + Barley	can	2 TBLS	2x/day	April 2019-present
Hills Science Diet Soft Savories Peanut + Banana	Treat	1/2	6x/day	April 2019-present
ALPO Variety Snaps Big Bites	Treat	1/4	6x/day	April 2019-present

*Any additional diet information can be listed on the back of this sheet

2. Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any other supplements)? Yes No If yes, please list which ones and give brands and amounts:

	Brand/Concentration	Amount per day
Taurine <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	GNC	2000 mg
Carnitine <input type="checkbox"/> Yes <input type="checkbox"/> No	_____	_____
Antioxidants <input type="checkbox"/> Yes <input type="checkbox"/> No	_____	_____
Multivitamin <input type="checkbox"/> Yes <input type="checkbox"/> No	_____	_____
Fish oil <input type="checkbox"/> Yes <input type="checkbox"/> No	_____	_____
Coenzyme Q10 <input type="checkbox"/> Yes <input type="checkbox"/> No	_____	_____
Other (please list): Example: Vitamin C	Nature's Bounty	500 mg tablets - 1 per day
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

3. How do you administer pills to your pet?

- I do not give any medications
- I put them directly in my pet's mouth without food
- I put them in my pet's dog/cat food
- I put them in a Pill Pocket or similar product
- I put them in foods (list foods): _____



Tufts Cummings School Of Veterinary Medicine

200 Westboro Road
North Grafton, MA 01536

Name/DOB: **B6**

Patient ID:

Sex: CM

Provider: **B6**

Order Location: Foster Hospital for Small Animals

Phone number:

Age: 2

Sample ID: 1905030068

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

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

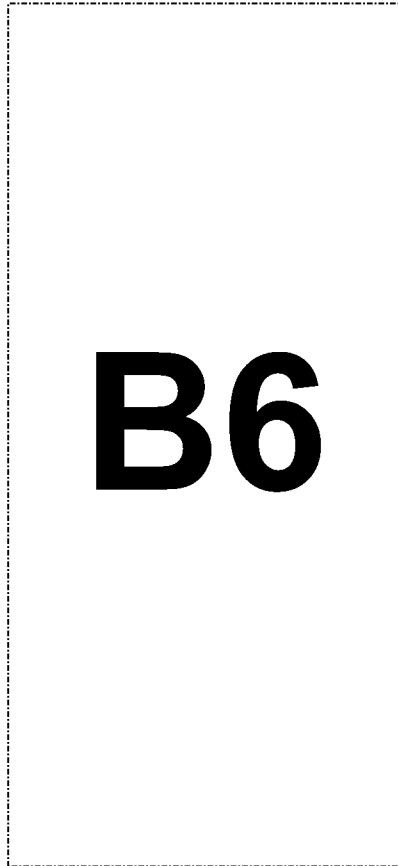
Cholesterol

Triglycerides

Amylase

Osmolality (calculated)

Comments (Chemistry)



Ref. Range/Males

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

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

30-338 mg/dl

409-1250 U/L

291-315 mmol/L

From: PFR Event <pfpreventcreation@fda.hhs.gov>
To: Cleary, Michael *; HQ Pet Food Report Notification; B6
Sent: 5/28/2019 7:41:41 PM
Subject: Bil Jac Picky No More--Small Breed-Persnickety Recipe w/ chicken liver:
B6 - EON-388960
Attachments: 2067506-report.pdf; 2067506-attachments.zip

A PFR Report has been received and PFR Event [EON-388960] has been created in the EON System.

A "PDF" report by name "2067506-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 "2067506-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-388960

ICSR #: 2067506

EON Title: PFR Event created for Bil Jac Picky No More® Small Breed Persnickety Recipe w/ chicken liver; 2067506

AE Date	05/17/2019	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	Spaniel - Cocker American		
Age	B6 Years		
District Involved	PFR-New England DO		

Product information

Individual Case Safety Report Number: 2067506

Product Group: Pet Food

Product Name: Bil Jac Picky No More® Small Breed Persnickety Recipe w/ chicken liver

Description: Patient presented to rDVM 5/17/2019 for evaluation of a cough x 1 month, extreme lethargy and decreased appetite. rDVM suspected CHF based on radiographs and worsening murmur - now a 4/6. A new arrhythmia was also discovered on ECG. Intermittent sinus rhythm with frequent APCs, occasional paroxysmal SVTs (short duration), isolated and couplet VPCs (LV and RV in origin). Confirmed patient was in left sided

heart failure w/ advanced DMVD and decreased contractile function which is very uncommon with valvular disease.

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
Bil Jac Picky No More® Small Breed Persnickety Recipe w/ chicken liver		

Sender information

B6

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

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Report Details - EON-388960		
ICSR:	2067506	
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:	2019-05-28 15:31:05 EDT	
Reported Problem:	Problem Description: Patient presented to rDVM 5/17/2019 for evaluation of a cough x 1 month, extreme lethargy and decreased appetite. rDVM suspected CHF based on radiographs and worsening murmur - now a 4/6. A new arrhythmia was also discovered on ECG. Intermittent sinus rhythm with frequent APCs, occasional paroxysmal SVTs (short duration), isolated and couplet VPCs (LV and RV in origin). Confirmed patient was in left sided heart failure w/ advanced DMVD and decreased contractile function which is very uncommon with valvular disease.	
	Date Problem Started: 05/17/2019	
	Concurrent Medical Problem: Yes	
	Pre Existing Conditions: Previously diagnosed (Jan 2019) with with a 1-2/6 heart murmur - asymptomatic, rDVM rec rechecking in 1 year.	
	Outcome to Date: Stable	
Product Information:	Product Name: Bil Jac Picky No More® Small Breed Persnickety Recipe w/ chicken liver	
	Product Type: Pet Food	
	Lot Number:	
	Package Type: BAG	
	Product Use Information:	
	Manufacturer /Distributor Information:	
	Purchase Location Information:	
Animal Information:	Name:	
	Type Of Species: Dog	
	Type Of Breed: Spaniel - Cocker American	
	Gender: Female	
	Reproductive Status: Neutered	
	Weight: 14 Kilogram	
	Age: B6 Years	
	Assessment of Prior Health: Excellent	
	Number of Animals Given the Product: 1	
	Number of Animals Reacted: 1	
	Owner Information:	Owner Information provided: Yes
		Contact: Name: B6 Phone: B6
		Address: B6 United States
	Healthcare Professional	Practice Name: Tufts Cummings School of Veterinary Medicine

	Information:	Contact:	Name:	B6	
			Phone:		
			Email:	B6	
		Address:	200 Westboro Road North Grafton Massachusetts 01536 United States		
		Practice Name:	Tufts University Cummings School of Veterinary Medicine		
		Contact:	Name:	Lisa Freeman	
			Phone:	508 887 4696	
	Type of Veterinarian:	Referred veterinarian			
	Permission to Release Records to FDA:	Yes			
Sender Information:	Name:	B6			
	Address:	200 Westboro Road North Grafton Massachusetts 01536 United States			
	Contact:	Phone:	B6		
		Email:	B6		
	Permission To Contact Sender:	Yes			
	Preferred Method Of Contact:	Email			
Reported to Other Parties:	None				
Additional Documents:	Attachment:	Med Rec pt 1.pdf			
	Description:	Medical Records			
	Type:	Medical Records			
	Attachment:	Med Rec pt 2.pdf			
	Description:	Medical Records			
	Type:	Medical Records			

Client:

B6

Address:

All Medical Records

Patient: B6

Breed: Cocker Spaniel

DOB: B6

Species: Canine

Sex: Female
(Spayed)

Home Phone: B6

Work Phone: () -

Cell Phone: B6

Referring Information

B6

Client:

B6

Patient:

Initial Complaint:

Emergency

SOAP Text May 18 2019 12:21PM

B6

Subjective

NEW VISIT (ER)

Doctor: B6

Student: B6 20

Presenting complaint: B6 CHF

Referral visit? Y

Diagnostics completed prior to visit:

Chem/SDMA - all WNL

Radiograph - Severe cardiomegaly with dorsal displacement of the trachea and left mainstem bronchi compression.

Pulmonary vessels are increased in diameter and lung lobar veins are bigger than the arteries. There is patchy interstitial pattern in the perihilar area. Caudal liver lobes look enlarged.

HISTORY:

Signalment: 10 yo SF Cocker Spaniel

Current history: O noted that in August of 2018, O+P moved from B6 and into an apartment. At this time, O noted anxiety and a cough. O noted that vet in B6 mentioned P had a heart murmur, but O had not noticed a cough until August. O noted that P is on a medication for anxiety but could not remember which medication. O noted that the last 3 months, the cough has gotten a lot worse. It is a constant cough that happens every 1.5 hours and throughout

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

the night. O has also noted that P has become exercise intolerant and cannot walk very far without becoming short of breath. O brought P to the RDVM yesterday, 05/17/19 and the vet noted that P is in CHF and has a very enlarged heart. RDVM started P on **B6** and referred P here for an echocardiogram. No S/V/D/PU/PD.

Prior medical history: none

Current medications: **B6**

Diet: Bill Jack Persnickety Dry BID

Vaccination status/flea & tick preventative use: UTD per O, f/t/hw prevention per O

Travel history: moved from **B6** August 2018

EXAM:

B6

C/V: Grade IV/VI heart murmur auscultated. Arrhythmia appreciated. Fair femoral pulses.

B6

ASSESSMENT:

A1: Grade IV/VI heart murmur with arrhythmia and increased respiratory effort - CHF (due to advanced DMVD with active left sided CHF, moderate PHTN)

A2: Frequent ventricular and supraventricular arrhythmias

A3: **B6**
A4: **B6**

PLAN:

P1: Cardio consult

Advanced DMVD with active L- CHF

Moderate PHTN

Frequent ventricular and supraventricular arrhythmias

P2: **B6**
P3: **B6**
P4: **B6**

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

B6

P5: iSTAT: **B6**

Client communication:

B6

Deposit & estimate status:

Resuscitation code (if admitting to ICU):

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

Initial Complaint:

Recheck **B6** - consult thru ER (DMVD/DCM study?)

Disposition/Recommendations

Client:
Patient:

B6

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

Cummings
Veterinary Medical Center
 AT TUFTS UNIVERSITY

Foster Hospital for Small Animals

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

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

Patient:	B6
Species:	Canine
Breed:	Cocker Spaniel
Sex:	Female (Spayed)
Age:	B6 Years Old

Lab Results Report

None 5/18/2019 12:44:43 PM Accession ID: **B6**

Test	Results	Reference Range	Units
AGAP (i-STAT)	B6	8 - 25	mmol/L
AGAP (i-STAT)		8 - 25	mmol/L
Hb		12 - 17	g/dL
Hb		12 - 17	g/dL
HCT		35 - 50	%
HCT		35 - 50	%
Creat		0.5 - 1.3	
Creat		0.5 - 1.3	
BUN		10 - 26	mg/dL
BUN		10 - 26	mg/dL
K+		3.4 - 4.9	mEq/L
Glucose (i-STAT)		60 - 115	mg/dL
Glucose (i-STAT)		60 - 115	mg/dL
iCa		1.12 - 1.4	mmol/L
TCO2		17 - 25	mmol/L
TCO2		17 - 25	mmol/L
iCa		1.12 - 1.4	mmol/L
iCa		1.12 - 1.4	mmol/L
Cl-		106 - 127	mEq/L
Cl-		106 - 127	mEq/L
K+	3.4 - 4.9	mEq/L	



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

K+		3.4 - 4.9	mEq/L
Na *	B6	142 - 150	mEq/L
Na *		142 - 150	mEq/L

None 5/18/2019 12:45:42 PM Accession ID: **B6**

Test	Results	Reference Range	Units
TS (FIISA)		0 - 0	g/dl
PCV **	B6	0 - 0	%
TS (FHSA)		0 - 0	g/dl

None 5/24/2019 3:29:26 PM Accession ID: **B6**

Test	Results	Reference Range	Units
GLUCOSE		67 - 135	mg/dL
UREA		8 - 30	mg/dL
CREATININE		0.6 - 2	mg/dL
PHOSPHORUS		2.6 - 7.2	mg/dL
CALCIUM2		9.4 - 11.3	mg/dL
MAGNESIUM 2+		1.8 - 3	mEq/L
T. PROTEIN		5.5 - 7.8	g/dL
ALBUMIN		2.8 - 4	g/dL
GLOBULINS		2.3 - 4.2	g/dL
A/G RATIO		0.7 - 1.6	
SODIUM		140 - 150	mEq/L
CHLORIDE		106 - 116	mEq/L
POTASSIUM		3.7 - 5.4	mEq/L
tCO2 (BICARB)	B6	14 - 28	mEq/L
AGAP		8 - 19	
NA/K		29 - 40	
T BILIRUBIN		0.1 - 0.3	mg/dL
ALK PHOS		12 - 127	U/L
GGT		0 - 10	U/L
ALT		14 - 86	U/L
AST		9 - 54	U/L
CK		22 - 422	U/L
CHOLESTEROL		82 - 355	mg/dL
TRIGLYCERIDES		30 - 338	mg/dl
AMYLASE		409 - 1250	U/L
OSMOLALITY (CALCULATED)		291 - 315	mmol/L
COMMENTS (CHEMISTRY)		0 - 0	

B6



Client: **B6**
Patient:

B6

Records

Patient History Report

Client: **B6** Patient: **B6**
Phone: **B6** Species: Canine Breed: Spaniel, Cocker
Address: **B6** Age: **B6** Sex: Spayed Female
Color: Black/Tan

Date	Type	Staff	History
------	------	-------	---------

5/18/2019	TC	B6	pc from owner - she is going to call Tufts and try to get in today - TENTATIVE
-----------	----	-----------	--

5/18/2019	TC	B6	P.C. lab results and recommendations - TENTATIVE Called B6 with Chem results (all wnl). She feels like B6 is doing better, advise continue B6 at present dose until evaluated by cardiologist. She will pursue echo at B6 where her children take their pets. I stressed need cardiologist and if they do not have one available within several days, she can contact us so we can get get info to a referral institution of her choice. B6 today, or B6 or Tufts next week.)
-----------	----	-----------	--

5/17/2019	C	B6	***** B6 Blank Document - FINAL 05/17/2019 - Check B6 Veterinarian: B6 DVM 5/17/2019 Patient Name: B6
-----------	---	-----------	---

Technician: **B6**

Reason for Visit: cough

12/10/2018	5/17/2019
10:39 AM	3:35 PM
Vital Sign	B6

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

B6

Page 1 of 4

Date: 5/18/2019 10:00 AM

Client: **B6**
Patient:

B6

Records

Patient History Report

Client:	B6	Patient:	B6	Breed:	Spaniel, Cocker
Phone:		Species:	Canine	Sex:	Spayed Female
Address:		Age:	B6	Color:	Black/Tan

Date	Type	Staff	History
------	------	-------	---------

Weight: 26 pounds 29 pounds

O reports that **B6** has had a cough for about a month now. O says it sounds like a hacking cough. She has no contact with other dogs. O says that **B6** had told her that her heart murmur could cause a cough at her last visit. O says that her appetite is normal but that she does have slightly looser stools. O says that she is acting very lethargic. Temp 101.4.

Exam: Pigmentary keratitis ventral 1/3 cornea OD. Bilat mild ceruminous otitis. Moderate to severe P+C. Grade 3-4/6 cardiac murmur; some arrhythmias auscultated. Mild dyspnea; color and CRT wnl.

Lateral thorax: generalized cardiomyopathy, dorsal caudal increased interstitial pattern

A: Cough, long standing murmur, evidence of generalized heart enlargement and CHF

P: Discussed findings with owner. Emphasized seriousness of CHF and need for cardiac evaluation. Chem drawn; administered **B6**

Advise echo consult ASAP.

5/17/2019 TC **B6** **B6** Technician History: TENTATIVE
Technician: **B6**

Reason for Visit: cough

	12/10/2018	5/17/2019
	10:39 AM	3:35 PM
Vital Sign	B6	
Weight	26 pounds	29 pounds

O reports that **B6** has had a cough for about a month now. O says it sounds like a hacking cough. She has no contact with other dogs. O says that **B6** had told her that her heart murmur could cause a cough at her last visit. O says that her appetite is normal but that she does have slightly looser stools. O says that she is acting very lethargic. Temp 101.4.

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B6

Page 2 of 4

Date: 5/18/2019 10:00 AM

Client: **B6**
Patient:

B6 Records

Patient History Report

Client: **B6** Patient: **B6**
Phone: **B6** Species: Canine Breed: Spaniel, Cocker
Address: **B6** Age: **B6** Sex: Spayed Female
Color: Black/Tan

Date Type Staff History

5/17/2019 L

B6

Chemistry results from IDEXX Reference Laboratory Requisition

ID:	Posted	Final
Test	Result	Reference Range
ALB		2.7 - 3.9
ALKP		5 - 160
ALT		18 - 121
AMYL		337 - 1469
ANION GAP		11 - 26
AST		16 - 55
BICARB		13 - 27
BUN/UREA		9 - 31
Ca		8.4 - 11.8
Chloride		108 - 119
CHOL		131 - 345
CREA		0.5 - 1.5
DBIL		0.0 - 0.1
GGT		0 - 13
GLU		63 - 114
IBIL		0.0 - 0.2
LIPA		138 - 755
PHOS		2.5 - 6.1
Potassium		4.0 - 5.4
TBIL		0.0 - 0.3
TP		5.5 - 7.5
Sodium		142 - 152
A/G Ratio		0.7 - 1.5
B/C Ratio		
Na/K Ratio		28 - 37
GLOB		2.4 - 4.0
CK		10 - 200
SDMA		0 - 14

B6

Ascp: **B6**
RE: **B6** HEMOLYSIS INDEX N
Index of N, 1+, 2+ exhibits no significant effect on chemistry values.
RE: **B6** LIPEMIA INDEX N
Index of N, 1+, 2+ exhibits no significant effect on chemistry values.

BOTH SDMA AND CREATININE ARE WITHIN THE REFERENCE INTERVAL which indicates

B6

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B6

Client: **B6**
Patient:

B6 Records

Patient History Report

Client:	B6	Patient:	B6	Breed:	Spaniel, Cocker
Phone:		Species:	Canine	Sex:	Spayed Female
Address:		Age:	B6	Color:	Black/Tan

Date	Type	Staff	History
------	------	-------	---------

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimate, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative medl note, V: Vital signs

B6

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

RDVM **B6** medical records 5/17/19-5/18/19

B6 Records

Patient History Report

Client: **B6**
Phone: **B6**
Address: **B6**

Patient: **B6**
Species: Canine
Age: **B6**
Color: Black/Tan

Breed: Spaniel, Cocker
Sex: Spayed Female

Date	Type	Staff	History
5/18/2019	TC	B6	pc from owner - she is going to call Tufts and try to get in today - TENTATIVE

5/18/2019 TC **B6** P.C. lab results and recommendations - TENTATIVE
Called **B6** with Chem results (all wnl). She feels like **B6** is doing better. Advise continue Eurosemide at present dose until evaluated by cardiologist. She will pursue echo at **B6** where her children take their pets. I stressed need cardiologist and if they do not have one available within several days she can contact us so we can get info to a referral institution of her choice. (**B6** today, or **B6** or Tufts next week.)

5/17/2019 C **B6** ***** **B6** Blank Document - FINAL **B6** - Check cough
Veterinarian: **B6** DVM 5/17/2019
Patient Name: **B6**

Technician: **B6**

Reason for Visit: cough

12/10/2018 5/17/2019
10:39 AM 3:35 PM
Vital Sign: **B6**

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing Instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vital signs

B6

Page 1 of 4

Date: 5/18/2019 10:00 AM

Client:
Patient:

B6

RDVM

B6

medical records 5/17/19-5/18/19

B6

Records

Patient History Report

Client:
Phone:
Address:

B6

Patient: **B6**
Species: **Canine**
Age: **B6**
Color: Black/Tan

Breed: Spaniel, Cocker
Sex: Spayed Female

Date	Type	Staff	History
	Weight	26 pounds	29 pounds

O reports that **B6** has had a cough for about a month now. O says it sounds like a hacking cough. She has no contact with other dogs. O says that **B6** had told her that her heart murmur could cause a cough at her last visit. O says that her appetite is normal but that she does have slightly looser stools. O says that she is acting very lethargic. Temp 101.4

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Lateral thorax: generalized cardiomyopathy, dorsal caudal increased interstitial pattern

A: Cough, long standing murmur, evidence of generalized heart enlargement and CHF

P: Discussed findings with owner. Emphasized seriousness of CHF and need for cardiac evaluation. Chem drawn:

B6 Advise echo consult ASAP.

5/17/2019 TC

B6

B6

Technician History - TENTATIVE

Technician: **B6**

Reason for Visit: cough

Vital Sign	12/10/2018	5/17/2019
Weight	26 pounds	29 pounds

O reports that **B6** has had a cough for about a month now. O says it sounds like a hacking cough. She has no contact with other dogs. O says that **B6** had told her that her heart murmur could cause a cough at her last visit. O says that her appetite is normal but that she does have slightly looser stools. O says that she is acting very lethargic. Temp 101.4

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B6

Page 2 of 4

Date: 5/18/2019 10:00 AM

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

RDVM **B6** medical records 5/17/19-5/18/19

B6 Records

Patient History Report

Client: **B6** Patient: **B6**
Phone: **B6** Species: Canine Breed: Spaniel, Cocker
Address: **B6** Age: **B6** Sex: Spayed Female
Color: Black/Tan

Date	Type	Staff	History
------	------	-------	---------

5/17/2019 L **B6**

Chemistry Results from IDEXX Reference Laboratory Requisition

ID	Result	Posted	Final	Reference Range
ALB	B6			2.7 - 3.9
ALKP	B6			5 - 160
ALT	B6			18 - 121
AMYL	B6			337 - 1469
ANION GAP	B6			11 - 26
AST	B6			16 - 55
BICARB	B6			13 - 27
BUN/UREA	B6			9 - 31
Ca	B6			8.4 - 11.8
Chloride	B6			108 - 119
CHOL	B6			131 - 345
CREA	B6			0.5 - 1.5
DBIL	B6			0.0 - 0.1
GGT	B6			0 - 13
GLU	B6			63 - 114
IBIL	B6			0.0 - 0.2
LIPA	B6			138 - 755
PHOS	B6			2.5 - 6.1
Potassium	B6			4.0 - 5.4
TBIL	B6			0.0 - 0.3
TP	B6			5.5 - 7.5
Sodium	B6			142 - 152
A/G Ratio	B6			0.7 - 1.5
B/C Ratio	B6			
Na/K Ratio	B6			28 - 37
GLOB	B6			2.4 - 4.0
CK	B6			10 - 200
SDMA	B6			0 - 14

Asc: **B6**
RE: **B6** HEMOLYSIS INDEX N
Index of N, 1+, 2+ exhibits no significant effect on chemistry values.
RE: **B6** LIPEMIA INDEX N
Index of N, 1+, 2+ exhibits no significant effect on chemistry values.

BOTH SDMA AND CREATININE ARE WITHIN THE REFERENCE INTERVAL which indicates

B6

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B6

Page 3 of 4

Date: 5/18/2019 10:00 AM

Client: **B6**
Patient:

RDVM: **B6** medical records 5/17/19-5/18/19

B6 Records

Patient History Report

Client:	B6	Patient:	B6	Breed:	Spaniel, Cocker
Phone:		Species:	Canine	Sex:	Spayed Female
Address:		Age:	B6		
		Color:	Black/Tan		

Date	Type	Staff	History
------	------	-------	---------

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative med note, V: Vitals/signs

B6

Client: **B6**
Patient:

Chem 5/24/2019



Tufts Cummings School Of Veterinary Medicine

200 Westboro Road
North Grafton, MA 01536

DUPLICATE

Name/DOB:	B6	Sex: SF	Provider: B6
Patient ID:		Age: 10	Order Location: V320539: Investigation into
Phone number:		Species: Canine	Sample ID: 1905240076
Collection Date: 5/24/2019 3:29 PM		Breed: Cocker Spaniel	
Approval date: 5/24/2019 4:18 PM			

Research Chemistry Profile - Small Animal (Cobas)

		Ref. Range/Females
CSTCYR		
Glucose	B6	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		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		0.10-0.30 mg/dL
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	
Amylase	409-1250 U/L	
Osmolality (calculated)	291-315 mmol/L	
Comments (Chemistry)	B6	

Sample ID: 1905240076/1
END OF REPORT (Final)

Reviewed by: _____

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

Diet Hx 5/24/2019

CARDIOLOGY DIET HISTORY FORM

Please answer the following questions about your pet

Pet's name: **B6** Owner's name: **B6** Today's date: 5-24-2019

1. How would you assess your pet's appetite? (mark the point on the line below that best represents your pet's appetite)

Example: **Poor** _____ | _____ **Excellent**
Poor _____ | _____ **Excellent**

2. Have you noticed a change in your pet's appetite over the last 1-2 weeks? (check all that apply)

- Eats about the same amount as usual
- Eats less than usual
- Eats more than usual
- Seems to prefer different foods than usual
- Other _____

3. Over the last few weeks, has your pet (check one)

- Lost weight
- Gained weight
- Stayed about the same weight
- Don't know

1. Please list below ALL pet foods, people food, treats, snack, dental chews, rawhides, and any other food item that your pet currently eats and that you have fed in the last 2 years.

Please provide enough detail that we could go to the store and buy the exact same food - examples are shown in the table

Food (include specific product and flavor)	Form	Amount	How often?	Dates fed
Nutro Grain Free Chicken, Lentil, & Sweet Potato Adult	dry	1 1/2 cup	2x/day	Jan 2016-present
85% lean hamburger	microwaved	3 oz	1x/week	June -Aug 2016
Pupperoni original beef flavor	treat	1/2	1x/day	Sept 2016-present
Rawhide	treat	6 inch twist	1x/week	Dec 2018-present
CALL OF THE WILD / BLUE JAC	DRY	1/2 cup	2x/day	July 2018 - present
CHICKEN -	BALLED			
RICE				
MILK BOWE SOFT TREATS	TREAT	6	A DAY	

*Any additional diet information can be listed on the back of this sheet

2. Do you give any dietary supplements to your pet (for example: vitamins, glucosamine, fatty acids, or any other supplements)? Yes No If yes, please list which ones and give brands and amounts:

	Brand/Concentration	Amount per day
Taurine <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____	_____
Carnitine <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____	_____
Antioxidants <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____	_____
Multivitamin <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____	_____
Fish oil <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____	_____
Coenzyme Q10 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____	_____
Other (please list):		
Example: Vitamin C	Nature's Bounty	500 mg tablets - 1 per day
_____	_____	_____
_____	_____	_____
_____	_____	_____

3. How do you administer pills to your pet?

- I do not give any medications
- I put them directly in my pet's mouth without food
- I put them in my pet's dog/cat food
- I put them in a Pill Pocket or similar product
- I put them in foods (list foods): Dog food

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

Idexx - NTproBNP 5/25/2019

IDEXX Reference Laboratories

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

Client: **B6**
Patient: **B6**
Species: CANINE
Breed: COCKER_SPANIEL
Gender: FEMALE SPAYED
Age: 10Y

Date: **B6**
Requisition #: 1
Accession #: **B6**
Ordered by: **B6**

IDEXX VetConnect 1-888-433-9967
TUFTS UNIVERSITY
200 WESTBORO RD
NORTH GRAFTON, Massachusetts 01536
508-839-5395
Account #88933

CARDIOPET proBNP- CANINE

Test	Result	Reference Range	Low	Normal	High
CARDIOPET proBNP - CANINE	B6	0 - 900 pmol/L	HIGH		B6

Comments

B6

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

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

Vitals Results

5/18/2019 11:14:07 AM	Heart Rate (/min)
5/18/2019 11:14:08 AM	Respiratory Rate
5/18/2019 11:14:09 AM	Temperature (F)
5/18/2019 11:14:10 AM	Weight (kg)
5/18/2019 12:43:53 PM	Lasix/Furosemide treatment note
5/18/2019 12:54:58 PM	Sedation
5/18/2019 1:33:08 PM	Heart Rate (/min)
5/18/2019 1:33:09 PM	Temperature (F)
5/18/2019 1:33:10 PM	Respiratory Rate
5/18/2019 1:33:11 PM	Weight (kg)
5/18/2019 3:08:13 PM	Eliminations
5/18/2019 4:11:00 PM	Lasix/Furosemide treatment note
5/24/2019 12:04:05 PM	Weight (kg)

B6

Client:
Patient:

B6

B6

CXR - 5/17/2019

B6

Client:
Patient:

B6

EKG from cardio

B6

5/18/2019 12:42:53 PM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client:
Patient:

B6

EKG from cardio

B6

5/18/2019 12:44:32 PM

Page 1 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client: **B6**
Patient:

EKG from cardio

B6

5/18/2019 12:44:32 PM

Page 2 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client:
Patient:

B6

EKG from cardio

B6

5/18/2019 12:44:37 PM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client:
Patient:

B6

EKG from cardio

B6

5/18/2019 12:44:59 PM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

12 Lead: Standard Placement

B6

Client: **B6**
Patient:

EKG from cardio

B6

5/18/2019 12:45:43 PM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

12 Lead: Standard Placement

B6

Client:
Patient:

B6

EKG from cardio

B6

5/18/2019 12:45:55 PM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client:
Patient:

B6

ECG from Cardio

B6

5/24/2019 1:57:20 PM

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client:
Patient:

B6

ECG from Cardio

B6

5/24/2019 1:57:44 PM

Page 1 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client: **B6**
Patient:

ECG from Cardio

B6

5/24/2019 1:57:44 PM

Page 2 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client: **B6**
Patient:

ECG from Cardio

B6

5/24/2019 1:57:50 PM

Page 1 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client:
Patient:

B6

ECG from Cardio

B6

5/24/2019 1:57:50 PM

Page 2 of 2

Tufts University
Tufts Cummings School of Vet Med
Cardiology

B6

Client: **B6**
Patient:

Patient History

05/18/2019 11:14 AM Vitals
05/18/2019 11:14 AM Vitals
05/18/2019 11:14 AM Vitals
05/18/2019 11:14 AM Vitals
05/18/2019 11:14 AM Vitals
05/18/2019 11:17 AM UserForm
05/18/2019 11:17 AM Email

05/18/2019 11:43 AM Purchase
05/18/2019 11:43 AM Purchase
05/18/2019 12:25 PM UserForm
05/18/2019 12:33 PM Treatment

05/18/2019 12:43 PM Vitals

05/18/2019 12:45 PM Labwork
05/18/2019 12:45 PM Labwork
05/18/2019 12:54 PM Vitals
05/18/2019 12:55 PM Purchase
05/18/2019 12:55 PM Purchase
05/18/2019 01:07 PM Purchase
05/18/2019 01:33 PM Vitals
05/18/2019 01:33 PM Vitals
05/18/2019 01:33 PM Vitals
05/18/2019 01:33 PM Vitals
05/18/2019 02:35 PM Appointment

05/18/2019 02:39 PM Treatment

05/18/2019 02:49 PM Prescription
05/18/2019 02:50 PM Prescription
05/18/2019 02:50 PM Prescription
05/18/2019 02:54 PM Purchase
05/18/2019 03:05 PM Treatment

05/18/2019 03:06 PM Vitals
05/18/2019 03:06 PM Vitals
05/18/2019 03:08 PM Vitals
05/18/2019 03:09 PM UserForm
05/18/2019 03:10 PM Treatment
05/18/2019 04:11 PM Vitals
05/18/2019 04:11 PM Treatment
05/18/2019 06:46 PM Treatment
05/21/2019 09:29 AM Appointment

05/24/2019 12:00 PM UserForm
05/24/2019 12:04 PM Vitals

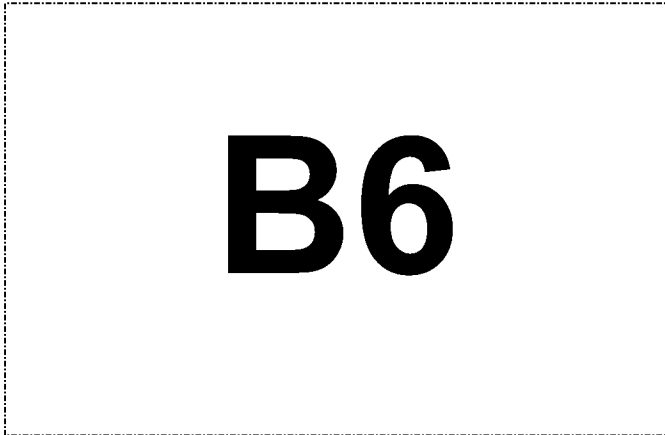
B6

Client:
Patient:

B6

Patient History

05/24/2019 12:20 PM	Treatment
05/24/2019 01:27 PM	UserForm
05/24/2019 01:53 PM	Purchase
05/24/2019 01:58 PM	Purchase
05/24/2019 02:01 PM	Prescription
05/24/2019 02:39 PM	Appointment
05/24/2019 02:44 PM	Appointment



Patient Account History	Description	Qty	price	Extended	Disc	Pmt
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Client: **B6**
Patient:

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Saturday, 18 May 2019 11:43	Appointment: Emergency Room Visit	1.000	B6	B6	0.0000	0.0000

Client: **B6**
Patient:

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Saturday, 18 May 2019 11:43	B6 (0 To 6 hrs)	B6	B6	B6	0.0000	0.0000

Client:
Patient:

B6

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Saturday, 18 May 2019 12:45	B6	1.000	B6	B6	0.0000	0.0000

Client:
Patient:

B6

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Saturday, 18 May 2019 12:45	B6 - FHSA	1.000	B6	0.0000	0.0000	

Client:
Patient:

B6

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Saturday, 18 May 2019 12:55	B6	1.000	B6	0.0000	0.0000	

Client:
Patient:

B6

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Saturday, 18 May 2019 12:55	B6	1.000	B6	0.0000	0.0000	

Client: **B6**
Patient:

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Saturday, 18 May 2019 13:07	B6	1.000	B6	0.0000	0.0000	

Client:
Patient:

B6

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Saturday, 18 May 2019 14:49	B6 tablets - FHSA	B6	B6	0.0000	0.0000	

Client: **B6**
Patient:

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Saturday, 18 May 2019 14:50	B6 tablets VETMEDIN	90.000	B6	0.0000	0.0000	

Client: **B6**
Patient:

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Saturday, 18 May 2019 14:50	B6 Tablets - FHSA	100.000	B6	0.0000	0.0000	

Client: B6
Patient:

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Saturday, 18 May 2019 14:54	Pharmacy Finished	1.000	0.000	0.0000	0.0000	0.0000

Client: **B6**
Patient:

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Saturday, 18 May 2019 16:11	B6 (ECC STOCK) B6	0.600	B6	0.0000	0.0000	

Client:
Patient:

B6

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Saturday, 18 May 2019 18:12	B6 (ECC STOCK) B6	0.600	B6	0.0000	0.0000	

Client:
Patient:

B6

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Friday, 24 May 2019 13:53	Appointment: Cardiology Study	1.000	0.000	0.0000	0.0000	0.0000

Client:
Patient:

B6

Patient Account History	Description	Qty	price	Extended	Disc	Pmt
Friday, 24 May 2019 14:01	B6 Tablets - FHSA	30.000	B6	0.0000	0.0000	

B6

B6

Female (Spayed)

Canine Cocker Spaniel Black

Patient ID: **B6**

STANDARD CONSENT FORM

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

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

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

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

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

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

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

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

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

I understand that a FINANCE CHARGE will be applied to all accounts unpaid after 30 days. The FINANCE CHARGE is computed on a monthly rate of 1.33% per month, which is an annual percentage rate of 16% applied to the average daily balance outstanding, with a minimum fee of \$50.

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

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

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

Owner's name: Date:

Owner's address:

B6

B6

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

The owner of the animal, , has granted me authority to obtain medical treatment and to bind this owner to pay the veterinary medical services provided at Cummings School pursuant to the terms and conditions described above.

Authorized Agent - Please Print

Agent's Signature

Street Address

Date

Town/City State Zip

Discharge Instructions

Patient

Name: B6
Signalment: B6 Years Old Black Female (Spayed) Cocker Spaniel

Owner

Name:
Address: B6

Patient ID: B6
Emergency Clinician: B6 DVM

ER Supervisor:

B6

Admit Date: 5/18/2019 11:15:21 AM
Check Out Date: 5/18/2019

Diagnoses:

- Chronic valvular disease with mitral regurgitation, congestive heart failure with pulmonary edema
- Arrhythmia
- B6

Clinical findings:

B6 has leaky heart valves, the mitral valve and tricuspid valve. This leak has resulted in a loud heart murmur and enlargement of her heart. The problem with her mitral valve is a common one in dogs, due to aging changes to the valve that result in thickening and a subsequent leak of the valve. The heart enlargement has now progressed to the point where fluid is backing up into the lungs causing pulmonary edema, a condition called congestive heart failure. We cannot do anything to change the thickening or leak at the valve, but we can use cardiac medications and some changes to the diet to make B6 comfortable and have him/her breathing easier. Unfortunately, this is a progressive disease and the treatment options cannot reverse the damage to the valve.

Diagnostic test results:

B6

Monitoring at home:

We would like you to monitor B6 breathing rate and effort at home, ideally during sleep or at a time of rest. The doses of drugs will be adjusted based on the breathing rate and effort. In general, most dogs with heart failure that is well controlled have a breathing rate at rest of less than 35 to 40 breaths per minute. In addition, the breathing effort, noted

by the amount of belly wall motion used for each breath, is fairly minimal if heart failure is controlled. An increase in breathing rate or effort will usually mean that you should give an extra dose of B6. If difficulty breathing is not improved within 30-60 minutes after giving extra furosemide then we recommend that a recheck exam be scheduled and/or that B6 be evaluated by an emergency clinic.

There are instructions for monitoring breathing, and a form to help keep track of breathing rate and drug doses, on the Tufts HeartSmart web site (<http://vet.tufts.edu/heartsmart/at-home-monitoring/>). 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.

Recommended Medications:

B6

Diet suggestions:

Continue feeding B6 current diet until her recheck appointment.

Exercise Recommendations:

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

Recheck/Follow-up:

A recheck has been scheduled for B6 on Friday, May 24th at 12:00pm with B6

Thank you for entrusting us with B6 care.

Prescription Refill Disclaimer:

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

Ordering Food:

Please check with your primary veterinarian to purchase the recommended diet(s). If you wish to purchase your food from us,

please call 7-10 days in advance (508-887-4629) to ensure the food is in stock. Alternatively, veterinary diets can be ordered from online retailers with a prescription/veterinary approval.

Clinical Trials:

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

Day Respiratory B6 Dose
Rate/Minute AM PM

Appetite

Sample	32	1 tab (12.5mg)	1/2 tab (6.25mg)	<input checked="" type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes: Breathing better
1:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
2:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
3:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
4:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
5:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
6:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
7:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
8:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
9:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
10:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
11:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
12:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
13:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
14:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
15:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
16:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
17:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
18:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
19:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
20:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
21:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
22:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:
23:				<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	Notes:

- | | | | | | |
|-----|------------------------------------|-------------------------------|-------------------------------|-------------------------------|--------|
| 24: | <input type="checkbox"/> Excellent | <input type="checkbox"/> Good | <input type="checkbox"/> Fair | <input type="checkbox"/> Poor | Notes: |
| 25: | <input type="checkbox"/> Excellent | <input type="checkbox"/> Good | <input type="checkbox"/> Fair | <input type="checkbox"/> Poor | Notes: |
| 26: | <input type="checkbox"/> Excellent | <input type="checkbox"/> Good | <input type="checkbox"/> Fair | <input type="checkbox"/> Poor | Notes: |
| 27: | <input type="checkbox"/> Excellent | <input type="checkbox"/> Good | <input type="checkbox"/> Fair | <input type="checkbox"/> Poor | Notes: |
| 28: | <input type="checkbox"/> Excellent | <input type="checkbox"/> Good | <input type="checkbox"/> Fair | <input type="checkbox"/> Poor | Notes: |
| 29: | <input type="checkbox"/> Excellent | <input type="checkbox"/> Good | <input type="checkbox"/> Fair | <input type="checkbox"/> Poor | Notes: |
| 30: | <input type="checkbox"/> Excellent | <input type="checkbox"/> Good | <input type="checkbox"/> Fair | <input type="checkbox"/> Poor | Notes: |
| 31: | <input type="checkbox"/> Excellent | <input type="checkbox"/> Good | <input type="checkbox"/> Fair | <input type="checkbox"/> Poor | Notes: |

Respiration Rate: Count the number of breaths for 30 seconds and multiply times 2 to get the respiratory rate per minute. In dogs, obtain the respiratory rate when they are at rest and not panting. In cats, get the respiratory rate at rest when they are not purring. In animals with well controlled heart failure, the breathing rate is often less than 35-40 breaths per minute. When the breathing rate is climbing, or when there is more effort to the chest wall or belly muscles during breathing, then fluid is likely accumulating in the lungs and more furosemide may be indicated. Please bring this sheet with you to your next veterinary exam.

Please visit our HeartSmart Website for further information
<http://vet.tufts.edu/heartsmart/at-home-monitoring/>

Nutritional Tips for Pets with Heart Disease

Low sodium, high quality pet treats

Notes:

1. Most other dog treats are high in sodium.
2. If your pet has other medical conditions, these treats may not be appropriate. Talk to your veterinarian if you have questions or make an appointment with the Nutrition Service.

Product	Calories per treat
Dogs	
Hill's Science Diet Baked Light Biscuits with Real Chicken Small Dog Treat	8
Hill's Science Diet Baked Light Biscuits with Real Chicken Medium Dog Treat	34
Hill's Science Diet Soft Savories Peanut Butter & Banana, Beef & Cheddar, or Chicken & Yogurt Dog Treat	25-27, depending on flavor
Hill's Ideal Balance Soft-Baked Naturals with Chicken & Carrots, Duck & Pumpkin, or Beef & Sweet Potato Dog Treat	12-13, depending on flavor
Purina Beyond Natural Salmon Dog Biscuit Treat with Oats or Chicken & Barley	27-29, depending on flavor
Purina Alpo Variety Snaps Little Bites (beef, chicken, liver, lamb or beef, bacon, cheese, peanut butter)	16
Purina Alpo Variety Snaps Big Bites (beef, chicken, liver, lamb)	58
Royal Canin Original Canine treat	5
Cats	
Royal Canin Original Feline treat	2
Fancy Feast Duos Natural Rotisserie Chicken Cat treat	2
Fancy Feast Duos Tuna with Accents of Parsley Cat treat	2

Taste enhancers to can make your pet's food tastier to increase food intake

Safe and effective appetite stimulants are now available for dogs and cats. Please talk to your veterinarian if your pet is not eating well, not eating ideal foods, or is losing weight.

Notes:

1. All foods in this list should be prepared without salt
2. These taste enhancers should be added in small amounts. If your pet eats too much of them, they will unbalance the diet and increase your pet's risk for nutritional deficiencies

Dogs

- ♥ Honey or maple syrup
- ♥ Homemade chicken, beef, or fish broth (made without salt; avoid all deli meats and rotisserie chicken). Avoid store bought broths because even the low sodium brands are too high in sodium.
- ♥ Sugar (brown or white) – Domino pourable light brown sugar is a good option
- ♥ Vanilla or fruit yogurt – One option that dogs seem to like is Yoplait Custard Yogurt (caramel or vanilla flavors). If you try other brands, just be sure the sodium is less than 100 mg per 100 calories (the Yoplait is 95 mg per 170 calories which comes out to 56 mg sodium per 100 calories). Also avoid yogurts with artificial sweeteners.
- ♥ Maple syrup. Low salt brands include Log Cabin All Natural, Maple Grove Farm 100% pure maple syrup, or Stop and Shop Original Syrup
- ♥ Applesauce (be sure they have less than 50 mg sodium per serving)
- ♥ Ketchup (no salt added). Examples include Hunts or Heinz no salt added
- ♥ Pasta sauce (no salt added). Examples: Francesco Rinaldi no salt added or Enrico's no salt added)
- ♥ Frosted Mini Wheats Original – these can be crumbled on his food
- ♥ Lean meats, cooked (chicken, turkey, beef, or fish) – not deli/sandwich meats/cold cuts, rotisserie chicken, and any canned fish or meat
- ♥ Eggs, cooked



Dogs (continued)

- ♥ Homemade chicken, beef, or fish broth (even low sodium store-bought broths are too high in sodium). Avoid all canned soups unless labeled as no salt added
- ♥ Low-salt breakfast cereal - the label should read, "very low sodium food" or contain less than 20 mg sodium per serving. A good option is Frosted Mini Wheats Original or Little Bites Original
- ♥ Fresh vegetables/fruit. Examples include carrots, green beans, apple, orange, banana (avoid grapes, raisins, onions, garlic)
- ♥ Low sodium canned dog foods

Cats

- ♥ Lean meats, cooked (chicken, turkey, beef, or fish) – not sandwich meats/cold cuts, canned tuna, or rotisserie chicken
- ♥ Eggs, cooked
- ♥ Homemade chicken, beef, or fish broth (even low sodium store-bought broths are too high in sodium)
- ♥ Low sodium canned cat foods



Foods to avoid

- ♥ Fatty foods (meat trimmings, cream, ice cream)
- ♥ Baby food
- ♥ Pickled foods
- ♥ Bread
- ♥ Pizza
- ♥ Condiments (ketchup, soy sauce, barbecue sauce, etc – unless they are unsalted or no salt added)
- ♥ Sandwich meats/cold cuts (ham, corned beef, salami, sausages, bacon, hot dogs)
- ♥ Rotisserie chicken
- ♥ Most cheeses, including "squirtable" cheeses
- ♥ Processed foods (such as, potato mixes, rice mixes, macaroni and cheese)
- ♥ Canned vegetables (unless "no salt added")
- ♥ Potato chips, packaged popcorn, crackers, and other snack foods
- ♥ Soups (unless homemade without salt)
- ♥ Most commercial pet treats

Tips for administering medications

Foods commonly used to administer your pet's pills can provide a large amount of additional salt to your pet's diet. Preferable ways to give medications include:

- ♥ Have one of our staff show you how to give medications without using food
- ♥ Insert medications into one of the following foods:

Dogs or cats

- Low-sodium canned pet food
- Home-cooked meat such as chicken or hamburger (made without salt); not lunch meats
- Whipped cream (Reddi Wip)
- Marshmallows
- Greenies Pill Pockets
 - Dog chicken, hickory smoke, or peanut butter flavors; cat chicken or salmon flavor
 - Avoid grain-free duck and pea which is high in sodium
 - Try to use the smallest size possible (ideally, the cat sized Pill Pockets, even for dogs) and as few as possible to avoid excessive salt.
 - Caution: Not all similar products from other companies are low in sodium .

Dogs

- Soft fruit, such as banana, orange, melon, or strawberries (avoid grapes)
- Peanut butter (only if labeled as "no salt added") – examples include Smucker's Natural Creamy Peanut Butter with No Salt Added or Teddie All Natural Smooth Unsalted Butter
- Frosting (should be less than 75 mg/serving and contain no artificial sweeteners or xylitol). Examples include Duncan Hines whipped vanilla frosting, Betty Crocker whipped vanilla frosting)

You may find our Petfoodology post called, "Pill-popping pets" helpful for additional ideas:

http://vetnutrition.tufts.edu/2018/09/foods_for_giving_pills/

Cummings Veterinary Medical Center

AT TUFTS UNIVERSITY
Cardiology Liaison: 508-887-4696

B6

Patient ID: **B6**

B6

Canine

Years Old Female (Spayed) Cocker
Spaniel

Black BW: Weight (kg) 14.40

Cardiology Consultation

Date: 5/18/2019

Weight: Weight (kg) 14.40

Requesting Clinician: **B6**

Attending Cardiologist:

John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC

B6

Cardiology Resident:

B6

Thoracic radiographs available for review?

- Yes - in SS
 Yes - in PACS
 No

Yes in ECC email

Patient location: ER

Presenting complaint and important concurrent diseases:

Enlarged heart on rDVM radiographs, cough

Current medications and doses:

B6

At-home diet (name, form, amount, frequency)

Bill Jack Persnickety - BID

Key indication for consultation: (murmur, arrhythmia, needs fluids, etc.)

Murmur and enlarged heart on radiographs, cough

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

- Yes (explain): 0 waiting
 No

STOP - remainder of form to be filled out by Cardiology

Physical Examination

B6

Muscle condition:

- Normal
- Mild muscle loss
- Moderate cachexia
- Marked cachexia

Cardiovascular Physical Exam

Murmur Grade:

- None
- I/VI
- II/VI
- III/VI
- IV/VI
- V/VI
- VI/VI

Murmur location/description: left apical, systolic

Jugular vein:

- Bottom 1/3 of the neck
- Middle 1/3 of the neck
- Top 2/3 of the neck
- 1/2 way up the neck

Arterial pulses:

- Weak
- Fair
- Good
- Strong
- Bounding
- Pulse deficits
- Pulsus paradoxus
- Other (describe):

Arrhythmia:

- None
- Sinus arrhythmia
- Premature beats
- Bradycardia
- Tachycardia

Gallop:

- Yes
- No
- Intermittent
- Pronounced
- Other:

Pulmonary assessments:

- Eupneic
- Mild dyspnea
- Marked dyspnea
- Normal BV sounds
- Pulmonary Crackles
- Wheezes
- Upper airway stridor
- Other auscultatory findings:

Abdominal exam:

- Normal
- Hepatomegaly
- Abdominal distension
- Mild ascites

Echocardiogram Findings:

B6

Mitral inflow:

- Summated
- Normal
- Delayed relaxation

- Pseudonormal
- Restrictive

ECG findings:

B6

Assessment and recommendations:

Findings consistent with advanced DMVD with active left-sided CHF. Despite patient having received 3 oral doses of **B6** over the last 18h (less than 2mg/kg each dose), there is still significant CHF. Since hospitalization is not possible, recommend **B6** **B6** every 4 hours. There is moderate PHTN, but LCHF should be addressed first. Reduced contractile function is not routinely seen in DMVD, but there very frequent arrhythmias and BEG diet may contribute. **B6** ID for 1 week (and then decrease to every 24h) and switching to a grain-based low sodium diet are recommended. Recommend recheck bloodwork and EKG in 1 week and echocardiogram in 3 months.

Treatment plan:

B6

B6

Final Diagnosis:

Advanced DMVD with active L-CHF;
Moderate PHTN;
Frequent ventricular and supraventricular arrhythmias.

Heart Failure Classification Score:

ISACHC Classification:

- Ia
- Ib
- II
- IIIa
- IIIb

ACVIM CHF Classification:

- A
- B1
- B2
- C
- D

M-Mode

IVSd		cm
LVIDd		cm
LVPWd		cm
IVSs		cm
LVIDs		cm
LVPWs		cm
EDV(Teich)		ml
ESV(Teich)		ml
EF(Teich)		%
%FS		%
SV(Teich)		ml
Ao Diam		cm
LA Diam		cm
LA/Ao		
Max LA		cm
Time		ms
HR		BPM
CO(Teich)		l/min
CI(Teich)		l/min/m
IVSd		cm
TAPSE		cm
EPSS		cm

B6

M-Mode Normalized

IVSdN		{0.290 - 0.520}
LVIDdN		{1.350 - 1.730} !

B6

LVPWdN
IVSsN
LVIDsN
LVPWsN
Ao Diam N
LA Diam N

B6

{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

SA LA
Ao Diam
SA LA / Ao Diam
IVSd
LVIDd
LVPWd
EDV(Teich)
IVSs
LVIDs
LVPWs
ESV(Teich)
EF(Teich)
%FS
SV(Teich)
LV Major
LV Minor
Sphericity Index
LVLd A4C
LVEDV MOD A4C
LVLs A4C
LVESV MOD A4C
LVEF MOD A4C
SV MOD A4C

B6

cm
cm
cm
cm
ml
cm
cm
cm
ml
%
%
ml
cm
cm
cm
ml
cm
ml
ml
%ml

Doppler

MR Vmax
MR maxPG
MV E Vel
MV DecT
MV Dec Slope
MV A Vel
MV E/A Ratio
AV Vmax
AV maxPG
PV Vmax
PV maxPG
TR Vmax
TR maxPG

B6

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

Discharge Instructions

Patient

Name: B6

Species: Canine

Black Female (Spayed) Cocker Spaniel

Birthdate: B6

Owner

Name: B6

Address: B6

Patient ID: B6

Attending Cardiologist:

John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC

B6

Cardiology Resident:

B6

Cardiology Technician:

B6

Student: B6

Admit Date: 5/24/2019 11:54:53 AM

Discharge Date: 5/24/2019

Diagnoses: Chronic valvular disease with mitral regurgitation, congestive heart failure with pulmonary edema.

Clinical findings: Thank you for bringing B6 in for a recheck of her recent diagnosis of chronic valvular disease with mitral regurgitation and congestive heart failure with pulmonary edema. Since her last appointment, you report that she has been coughing, has had a decreased appetite, and you've had some difficulties giving her medication. Her respiratory (breathing) rate at rest, however, has been comfortable with no effort.

On physical examination, B6 is bright, alert, and responsive. B6 has a slower heart rate today and has little to no arrhythmias which is excellent news! While it is difficult to assess her breathing rate here due to her stress and anxiety, you indicate that she does start to pant much more frequently when out on a walk. Her tongue is a little blue today, which indicates she is still having issues fully oxygenating, and she coughed occasionally during the exam.

Her arrhythmias have dramatically decreased and seems to be pretty well controlled from her anti-arrhythmias. Other findings were consistent with her previous echocardiogram. While she has not fully recovered, B6 seems to be doing much better comparatively to her initial presentation this past Saturday.

Monitoring at home:

We would like you to monitor B6 breathing rate and effort at home, ideally during sleep or at a time of rest. The doses of drugs will be adjusted based on the breathing rate and effort. In general, most dogs with heart failure that is well controlled have a breathing rate at rest of less than 35 breaths per minute. In addition, the breathing effort, noted by the amount of belly wall motion used for each breath, is fairly minimal if heart failure is controlled. An increase in breathing

rate or effort will usually mean that you should give an extra dose of **B6**. If difficulty breathing is not improved within 30-60 minutes after giving extra furosemide then we recommend that a recheck exam be scheduled and/or that **B6** be evaluated by an emergency clinic. There are instructions for monitoring breathing, and a form to help keep track of breathing rate and drug doses, on the Tufts HeartSmart web site (<http://vet.tufts.edu/heartsmart/at-home-monitoring/>). 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.

Recommended Medications:

B6

Diet suggestions:

Dogs with heart failure accumulate more fluid in their body if they eat large amounts of sodium (salt). Sodium can be found in all foods, but some foods are lower in sodium than others. Many treats, most people foods, and the 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. In addition, your dog's usual diet may have more sodium than recommended - we want your dog to eat their usual diet for the first 7 to 14 days so we can make sure they are tolerating medications well, but after that time we would recommend slowly introducing one of the lower sodium diets on the HeartSmart list (25% of the new diet and 75% old diet for 2-3 days, then 50:50, etc.). Hopefully you can find a diet on the list that **B6** likes to eat. Alternatively, you can research the amount of sodium in your dog's current diet to ensure that the sodium content is similar to those on the list. The HeartSmart web site also has some information on supplements such as fish oil, taurine, and other supplements that you might have questions about (<http://vet.tufts.edu/heartsmart/diet/>).

- The FDA is currently investigating an apparent association between diet and a type of heart disease called dilated cardiomyopathy. The exact cause is still unclear, but it appears to be associated with boutique diets and those containing exotic ingredient or are grain-free. Therefore, we are currently recommending that dogs do not eat these types of diets.
- We recommend switching **B6** to commercial diet made by a well-established company that is not grain-free and does not contain any exotic ingredients, such as kangaroo, duck, lamb, venison, lentils, peas, beans, buffalo, tapioca, barley, and chickpeas.
- The FDA issued a statement regarding this issue (<https://www.fda.gov/AnimalVeterinary/NewsEvents/CVMUpdates/ucm613305.htm>) and a recent article published by Dr. Lisa Freeman on the Cummings School's Petfoodology blog can further explain these findings (<http://vetnutrition.tufts.edu/2018/06/a-broken-heart-risk-of-heart-disease-in-boutique-or-grain-free-diets-and-exotic-ingredients/>).
- Our nutritionists have compiled a list of dog foods that are good options for dogs with heart disease.

Dry Food Option:

Royal Canin Early Cardiac (veterinary diet)

Canned Food Options:

Hill's Science Diet Adult 1-6 Healthy Cuisine Roasted Chicken, Carrot, and Spinach Stew
Royal Canin Mature 8+

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

Exercise Recommendations:

Please continue limiting activity and avoiding any strenuous exercise when possible.

Recheck Visits: We want to recheck her in 10-14 days (06/07/19). At this visit we will want to check breathing effort and heart function, do a blood test to recheck kidney values, and probably recheck a blood pressure. A recheck echocardiogram and/or chest radiographs (x-rays) are recommended in 3 months.

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

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

Prescription Refill Disclaimer:

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

Ordering Food:

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

Clinical Trials:

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

Case:

Owner:

Discharge Instructions

B6

Patient ID: B6

B6
Canine
Years Old Female (Spayed) Cocker Spaniel
Black

Cardiology Appointment Report

Date: 5/24/2019

Attending Cardiologist:

John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC

B6

Cardiology Resident:

B6

Cardiology Technician:

B6

Student: B6 V20

Presenting Complaint: Recheck for hx of advanced DMVD with active left sided CHF on B6

Concurrent Diseases: None

General Medical History: Still coughing and doing a lot of panting. When sleeping, has to splay on the ground on a cold surface. When walking any tiny bit, she will start panting. She hasn't been really eating. Having a hard time giving her medication and tries to grind it into her food but P is not really eating much of her food.

Diet and Supplements:

Bill Jack Persnickety - BID

Cardiovascular History:

Prior CHF diagnosis? Y

Prior heart murmur? Y

Prior ATE? N

Prior arrhythmia? Y

Monitoring respiratory rate and effort at home? N

Cough? Y

Shortness of breath or difficulty breathing? Y

Syncope or collapse? Has not collapsed since last Saturday during her last incident.

Sudden onset lameness? N

Exercise intolerance? Y

Current Medications Pertinent to CV System:

B6

Cardiac Physical Examination:

B6

Muscle condition:

- | | |
|--|--|
| <input type="checkbox"/> Normal | <input type="checkbox"/> Moderate cachexia |
| <input checked="" type="checkbox"/> Mild muscle loss | <input type="checkbox"/> Marked cachexia |

Cardiovascular Physical Exam:

Murmur Grade:

- | | |
|---------------------------------|---|
| <input type="checkbox"/> None | <input checked="" type="checkbox"/> IV/VI |
| <input type="checkbox"/> I/VI | <input type="checkbox"/> V/VI |
| <input type="checkbox"/> II/VI | <input type="checkbox"/> VI/VI |
| <input type="checkbox"/> III/VI | |

Murmur location/description: left apical systole

Jugular vein:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Bottom 1/3 of the neck | <input type="checkbox"/> 1/2 way up the neck |
| <input type="checkbox"/> Middle 1/3 of the neck | <input type="checkbox"/> Top 2/3 of the neck |

Arterial pulses:

- | | |
|--|---|
| <input type="checkbox"/> Weak | <input type="checkbox"/> Bounding |
| <input checked="" type="checkbox"/> Fair | <input type="checkbox"/> Pulse deficits |
| <input type="checkbox"/> Good | <input type="checkbox"/> Pulsus paradoxus |
| <input type="checkbox"/> Strong | <input type="checkbox"/> Other: |

Arrhythmia:

- None
- Sinus arrhythmia
- Premature beats

- Bradycardia
- Tachycardia

Gallop:

- Yes
- No
- Intermittent

- Pronounced
- Other:

Pulmonary assessments:

- Eupneic
- Mild dyspnea
- Marked dyspnea
- Normal BV sounds

- Pulmonary crackles
- Wheezes
- Upper airway stridor

Abdominal exam:

- Normal
- Hepatomegaly
- Abdominal distension

- Mild ascites
- Marked ascites

Problems:

CHF with advanced DMVD
Pulmonary hypertension

Diagnostic plan:

- Echocardiogram
- Chemistry profile
- ECG
- Renal profile
- Blood pressure

- Dialysis profile
- Thoracic radiographs
- NT-proBNP
- Troponin I
- Other tests

Echocardiogram Findings:

B6

Assessment and recommendations:

Findings consistent with advanced DMVD with active left-sided CHF. Heart rhythm is better control and rare ventricular arrhythmias were seen today. Patient still has some respiratory effort, but seems brighter and alert. Reduced contractile function is not routinely seen in DMVD, but since there were very frequent arrhythmias and patient has been on a BEG diet, these factors should also be considered. Recommend give B6 Recheck in 7 days.

Final Diagnosis:

Advanced DMVD with active CHF.

Reduced contractile function.

Heart Failure Classification Score:

ISACHC Classification:

Ia

Ib

II

IIIa

IIIb

ACVIM Classification:

A

B1

B2

C

D

From: Freeman, Lisa <Lisa.Freeman@tufts.edu>
To: Jones, Jennifer L
CC: Peloquin, Sarah; Guag, Jake
Sent: 7/2/2019 1:45:01 PM
Subject: RE: [REDACTED] euthanized

Hi Jen
Thanks for letting me know. I'll update her primary care vet
Lisa

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

From: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Sent: Tuesday, July 02, 2019 9:41 AM
To: Freeman, Lisa <Lisa.Freeman@tufts.edu>
Cc: Peloquin, Sarah <Sarah.Peloquin@fda.hhs.gov>; Guag, Jake <Jake.Guag@fda.hhs.gov>
Subject: RE: [REDACTED] euthanized

Good morning Lisa,
Thank you for the update about [REDACTED] I'm sorry to hear that she passed away.
Currently, we are not collecting more tissues for DCM histopathology except on a case-by-case basis. We will not request histopathology or tissue for [REDACTED] case.
Thank you again,
Jen

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



From: Freeman, Lisa <Lisa.Freeman@tufts.edu>
Sent: Monday, July 01, 2019 11:32 AM
To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>; Peloquin, Sarah <Sarah.Peloquin@fda.hhs.gov>; Guag, Jake <Jake.Guag@fda.hhs.gov>
Subject: [REDACTED] euthanized

Hi Jen and all

[REDACTED] one of the dogs in our study (Cocker Spaniel with heart failure, mitral valve disease but reduced contractility) and that we reported to you, was euthanized on [REDACTED]. The RDVM is holding the body in case you'd like the heart but I wasn't sure if it would be too autolyzed at this point. Can you let me know either way asap so that I can update the vet?

Thanks
Lisa

Lisa M. Freeman, DVM, PhD, DACVN

Board Certified Veterinary Nutritionist™
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: Related PFR Event <pfrsignificantactivitycreation@fda.hhs.gov>
To: Rotstein, David; Cleary, Michael *; HQ Pet Food Report Notification;
B6
Sent: 6/10/2019 8:20:57 PM
Subject: Fromm Game Bird Recipe Dog - Four-Star - Dry -Grain-Free formula B6
B6 EON-390092
Attachments: 2068038-report.pdf; 2068038-attachments.zip

A PFR Report has been received and Related PFR Event [EON-390092] has been created in the EON System.

A "PDF" report by name "2068038-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 "2068038-attachments.zip" and is attached to this email notification.

Below is the summary of the report:

EON Key: EON-390092

ICSR #: 2068038

EON Title: Related PFR Event created for Fromm Game Bird Recipe Dog · Four-Star · Dry Grain-Free formula; 2068038

AE Date	04/16/2019	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Better/Improved/Recovering
Breed	Hound (unspecified)		
Age	B6 Years		
District Involved	PFR-New England DO		

Product information

Individual Case Safety Report Number: 2068038

Product Group: Pet Food

Product Name: Fromm Game Bird Recipe Dog · Four-Star · Dry Grain-Free formula

Description: Patient presented to rDVM for evaluation of abdominal distension x 5 weeks and increase in respiratory rate and effort. FAST scan revealed moderate ascites. Patient was referred to Tufts for further evaluation. Findings consistent with advanced DMVD with suspect L-CHF and poor contractile function.

Considering LA enlargement and severity of MR and AI, we would expect a better systolic function.

B6

10mg BID is recommended. Mild respiratory effort and occasional b-lines vote in favor to L-CHF.

There is enough cardiac changes to justify L and R CHF. Since patient is on a BEG diet, it is unclear whether diet is playing a role on decreased contractile function. Recommend transition to a grain-based, low sodium diet and consider Taurine supplementation. Abdominocentesis was performed (5 liters of serous sanguineous fluid) and analysis is recommended. Recommend hospitalization, patient on telemetry monitoring and respiratory watch. Fluid check in the morning and kidney values daily while in the hospital. Since patient is on a BEG diet, recommend transition to a grain-based, low sodium diet.

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
Fromm Game Bird Recipe Dog · Four-Star · Dry Grain-Free formula		

This report is linked to:

Initial EON Event Key: EON-388971

Initial ICSR: 2067510

Sender information

B6

Owner information

B6

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

<https://eon.fda.gov/eon//browse/EON-390092>

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

<https://eon.fda.gov/eon//EventCustomDetailsAction!viewReport.jspa?decorator=none&e=0&issueType=10100&issueId=407364&parentIssueTypeId=12>

=====
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Report Details - EON-390092

ICSR:	2068038
Type Of Submission:	Followup
Report Version:	FPSR.FDA.PETF.V.V1
Type Of Report:	Adverse Event (a symptom, reaction or disease associated with the product)
Reporting Type:	Voluntary
Report Submission Date:	2019-06-10 16:15:32 EDT
Initial Report Date:	05/28/2019
Parent ICSR:	2067510
Follow-up Report to FDA Request:	Yes

Reported Problem:	Problem Description:	Patient presented to rDVM for evaluation of abdominal distension x 5 weeks and increase in respiratory rate and effort. FAST scan revealed moderate ascites. Patient was referred to Tufts for further evaluation. Findings consistent with advanced DMVD with suspect L-CHF and poor contractile function. Considering LA enlargement and severity of MR and AI, we would expect a better systolic function. B6 is recommended. Mild respiratory effort and occasional b-lines were in favor of L-CHF. There is enough cardiac changes to justify L and R CHF. Since patient is on a BEG diet, it is unclear whether diet is playing a role on decreased contractile function. Recommend transition to a grain-based, low sodium diet and consider Taurine supplementation. Abdominocentesis was performed (5 liters of serous sanguineous fluid) and analysis is recommended. Recommend hospitalization, patient on telemetry monitoring and respiratory watch. Fluid check in the morning and kidney values daily while in the hospital. Since patient is on a BEG diet, recommend transition to a grain-based, low sodium diet.
	Date Problem Started:	04/16/2019
	Concurrent Medical Problem:	Yes
	Pre Existing Conditions:	B6
	Outcome to Date:	Better/Improved/Recovering

Product Information:	Product Name:	Fromm Game Bird Recipe Dog Four-Star Dry Grain-Free formula
	Product Type:	Pet Food
	Lot Number:	
	Package Type:	BAG
	Product Use Information:	
	Manufacturer /Distributor Information:	
	Purchase Location Information:	

Animal Information:	Name:	
	Type Of Species:	Dog
	Type Of Breed:	Hound (unspecified)
	Gender:	Male
	Reproductive Status:	Neutered
	Weight:	38.9 Kilogram
	Age:	B6 Years
	Assessment of Prior Health:	Good
	Number of Animals	1

	Given the Product:	
	Number of Animals Reacted:	1
	Owner Information:	Owner Information provided: Yes
		Contact: Name: B6
		Phone: B6
	Address: B6 United States	
	Healthcare Professional Information:	Practice Name: Tufts Cummings School of Veterinary Medicine
		Contact: Name: B6
	Phone: B6	
	Email: B6	
	Address: 200 Westboro Road North Grafton Massachusetts 01536 United States	
	Practice Name: Tufts University Cummings School of Veterinary Medicine	
	Contact:	Name: Lisa Freeman
		Phone: (508) 887-4696
	Address: 200 Westboro Road North Grafton Massachusetts 01536 United States	
	Permission to Release Records to FDA:	Yes
Sender Information:	Name:	B6
	Address:	200 Westboro Road North Grafton Massachusetts 01536 United States
	Contact:	Phone: B6
		Email: B6
	Permission To Contact Sender:	Yes
	Preferred Method Of Contact:	Email
	Reported to Other Parties:	None
Additional Documents:	Attachment:	Complete amino acid analysis 5-29-2019.pdf
	Description:	Lab work
	Type:	Laboratory Report
	Attachment:	troponin 5-30-2019.pdf
	Description:	Lab work
	Type:	Laboratory Report

Attachment:	Follow-up medical records.pdf
Description:	Medical Records
Type:	Medical Records

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

Cummings
Veterinary Medical Center
 AT TUFTS UNIVERSITY

Foster Hospital for Small Animals

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

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

Patient: **B6**
 Species: Canine
 Breed: Treeing Walker Coonhound
 Sex: Male (Neutered)
 Age: **B6**

Lab Results Report

Chemistry 21 (Cobas) 6/7/2019 2:48:19 PM **Accession ID: B6**

Test	Results	Reference Range	Units
PHOSPHORUS	B6	2.6 - 7.2	mg/dL
GLUCOSE		67 - 135	mg/dL
A/G RATIO		0.7 - 1.6	
OSMOLALITY (CALCULATED)		291 - 315	mmol/L
SODIUM		140 - 150	mEq/L
CHLORIDE		106 - 116	mEq/L
CALCIUM2		9.4 - 11.3	mg/dL
ALBUMIN		2.8 - 4	g/dL
AST		9 - 54	U/L
POTASSIUM		3.7 - 5.4	mEq/L
ALK PHOS		12 - 127	U/L
CHOLESTEROL		82 - 355	mg/dL
UREA		8 - 30	mg/dL
T. PROTEIN		5.5 - 7.8	g/dL
NA/K		29 - 40	
COMMENTS (CHEMISTRY)		0 - 0	
CREATININE		0.6 - 2	mg/dL
ALT		14 - 86	U/L
T BILIRUBIN	0.1 - 0.3	mg/dL	



Client:
Patient:

B6

GLOBULINS

B6

2.3 - 4.2

g/dL



stringsoft

4/12

B6

Printed Monday, June 10, 2019

Vitals Results

6/7/2019 2:04:56 PM Weight (kg) 37.3000

Patient History

06/07/2019 01:55 PM UserForm
06/07/2019 01:57 PM Purchase
06/07/2019 02:04 PM Vitals
06/07/2019 02:04 PM Vitals
06/07/2019 02:08 PM Treatment

06/07/2019 02:35 PM UserForm

06/07/2019 02:36 PM Purchase
06/07/2019 02:47 PM Purchase
06/07/2019 03:33 PM Prescription

B6

Discharge Instructions

Patient

Name: B6

Species: Canine

Tricolor Male (Neutered) Treeing Walker

Courthouse

Birthdate: B6

Owner

Name: B6

Address: B6

Patient ID: B6

Attending Cardiologist:

John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC

B6

Cardiology Resident:

B6

Cardiology Technician:

B6

Student: B6

Admit Date: 6/7/2019 1:52:55 PM

Discharge Date: 6/7/2019

Diagnoses: Chronic valvular disease with mitral regurgitation, history of congestive heart failure with pulmonary edema and ascites.

Clinical Findings: Thank you for bringing B6 to Tufts for a one week recheck. B6 had a recent episode of heart failure and still had residual fluid in his abdomen during his last visit. You report he has been tolerating his medications very well and has been eating wonderful since last visit! You also noticed his belly has gotten smaller since last visit.

On physical exam today, B6 was bright and alert. He lost about 2kg (4.4lb). As expected, his murmur is unchanged since his last visit. His pulses were good today. We took a quick look at B6 belly with the ultrasound to check for fluid in his abdomen (ascites). B6 ascites has almost completely resolved, indicating that the medications are working great for him!

We have submitted a chemistry panel to recheck B6 kidney values to make sure he is tolerating the spironolactone well. You should hear back with these results in the next 1-2 business days. Depending on the values, we may consider increase the frequency of the B6 to twice a day.

Monitoring at Home:

*You can evaluate the fluid in his belly by using a malleable measuring tape around the same part of his abdomen every other day. If you notice significant increases in size, this may also mean that you should give an extra dose of furosemide. * Please let us know if additional doses are given.

We would like you to monitor [B6] breathing rate and effort at home, ideally during sleep or at a time of rest. The doses of drugs will be adjusted based on the breathing rate and effort. In general, most dogs with heart failure that is well controlled have a breathing rate at rest of less than 35 breaths per minute. In addition, the breathing effort, noted by the amount of belly wall motion used for each breath, is fairly minimal if heart failure is controlled. An increase in breathing rate or effort will usually mean that you should give an extra dose of [B6]. If difficulty breathing is not improved within 30-60 minutes after giving extra [B6] then we recommend that a recheck exam be scheduled and/or that [B6] be evaluated by an emergency clinic. There are instructions for monitoring breathing, and a form to help keep track of breathing rate and drug doses, on the Tufts HeartSmart web site (<http://vet.tufts.edu/heartsmart/at-home-monitoring/>).

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.

Diet Suggestions: Continue [B6] on his early cardiac diet. He is on the thinner side right now so we recommend increasing his food from 4 cups a day to 5 cups a day.

Recommended Medications:

B6

Recheck Visits: [B6] has an appointment recheck scheduled for the study he is participating in at 2pm on August 23rd with [B6].

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

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

Prescription Refill Disclaimer:

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

Ordering Food:

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

Clinical Trials:

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

Case: [B6]

Owner: [B6]

Discharge Instructions

Nutritional Tips for Pets with Heart Disease

Low sodium, high quality pet treats

Notes:

1. Most other dog treats are high in sodium.
2. If your pet has other medical conditions, these treats may not be appropriate. Talk to your veterinarian if you have questions or make an appointment with the Nutrition Service.

Product	Calories per treat
Dogs	
Hill's Science Diet Baked Light Biscuits with Real Chicken Small Dog Treat	8
Hill's Science Diet Baked Light Biscuits with Real Chicken Medium Dog Treat	34
Hill's Science Diet Soft Savories Peanut Butter & Banana, Beef & Cheddar, or Chicken & Yogurt Dog Treat	25-27, depending on flavor
Hill's Ideal Balance Soft-Baked Naturals with Chicken & Carrots, Duck & Pumpkin, or Beef & Sweet Potato Dog Treat	12-13, depending on flavor
Purina Beyond Natural Salmon Dog Biscuit Treat with Oats or Chicken & Barley	27-29, depending on flavor
Purina Alpo Variety Snaps Little Bites (beef, chicken, liver, lamb or beef, bacon, cheese, peanut butter)	16
Purina Alpo Variety Snaps Big Bites (beef, chicken, liver, lamb)	58
Royal Canin Original Canine treat	5
Cats	
Royal Canin Original Feline treat	2
Fancy Feast Duos Natural Rotisserie Chicken Cat treat	2
Fancy Feast Duos Tuna with Accents of Parsley Cat treat	2

Taste enhancers to can make your pet's food tastier to increase food intake

Safe and effective appetite stimulants are now available for dogs and cats. Please talk to your veterinarian if your pet is not eating well, not eating ideal foods, or is losing weight.

Notes:

1. All foods in this list should be prepared without salt
2. These taste enhancers should be added in small amounts. If your pet eats too much of them, they will unbalance the diet and increase your pet's risk for nutritional deficiencies

Dogs

- ♥ Honey or maple syrup
- ♥ Homemade chicken, beef, or fish broth (made without salt; avoid all deli meats and rotisserie chicken). Avoid store bought broths because even the low sodium brands are too high in sodium.
- ♥ Sugar (brown or white) – Domino pourable light brown sugar is a good option
- ♥ Vanilla or fruit yogurt – One option that dogs seem to like is Yoplait Custard Yogurt (caramel or vanilla flavors). If you try other brands, just be sure the sodium is less than 100 mg per 100 calories (the Yoplait is 95 mg per 170 calories which comes out to 56 mg sodium per 100 calories). Also avoid yogurts with artificial sweeteners.
- ♥ Maple syrup. Low salt brands include Log Cabin All Natural, Maple Grove Farm 100% pure maple syrup, or Stop and Shop Original Syrup
- ♥ Applesauce (be sure they have less than 50 mg sodium per serving)
- ♥ Ketchup (no salt added). Examples include Hunts or Heinz no salt added
- ♥ Pasta sauce (no salt added). Examples: Francesco Rinaldi no salt added or Enrico's no salt added)
- ♥ Frosted Mini Wheats Original – these can be crumbled on his food
- ♥ Lean meats, cooked (chicken, turkey, beef, or fish) – not deli/sandwich meats/cold cuts, rotisserie chicken, and any canned fish or meat
- ♥ Eggs, cooked



Dogs (continued)

- ♥ Homemade chicken, beef, or fish broth (even low sodium store-bought broths are too high in sodium). Avoid all canned soups unless labeled as no salt added
- ♥ Low-salt breakfast cereal - the label should read, "very low sodium food" or contain less than 20 mg sodium per serving. A good option is Frosted Mini Wheats Original or Little Bites Original
- ♥ Fresh vegetables/fruit. Examples include carrots, green beans, apple, orange, banana (avoid grapes, raisins, onions, garlic)
- ♥ Low sodium canned dog foods

Cats

- ♥ Lean meats, cooked (chicken, turkey, beef, or fish) – not sandwich meats/cold cuts, canned tuna, or rotisserie chicken
- ♥ Eggs, cooked
- ♥ Homemade chicken, beef, or fish broth (even low sodium store-bought broths are too high in sodium)
- ♥ Low sodium canned cat foods



Foods to avoid

- ♥ Fatty foods (meat trimmings, cream, ice cream)
- ♥ Baby food
- ♥ Pickled foods
- ♥ Bread
- ♥ Pizza
- ♥ Condiments (ketchup, soy sauce, barbecue sauce, etc – unless they are unsalted or no salt added)
- ♥ Sandwich meats/cold cuts (ham, corned beef, salami, sausages, bacon, hot dogs)
- ♥ Rotisserie chicken
- ♥ Most cheeses, including "squirtable" cheeses
- ♥ Processed foods (such as, potato mixes, rice mixes, macaroni and cheese)
- ♥ Canned vegetables (unless "no salt added")
- ♥ Potato chips, packaged popcorn, crackers, and other snack foods
- ♥ Soups (unless homemade without salt)
- ♥ Most commercial pet treats

Tips for administering medications

Foods commonly used to administer your pet's pills can provide a large amount of additional salt to your pet's diet. Preferable ways to give medications include:

- ♥ Have one of our staff show you how to give medications without using food
- ♥ Insert medications into one of the following foods:

Dogs or cats

- Low-sodium canned pet food
- Home-cooked meat such as chicken or hamburger (made without salt); not lunch meats
- Whipped cream (Reddi Wip)
- Marshmallows
- Greenies Pill Pockets
 - Dog chicken, hickory smoke, or peanut butter flavors; cat chicken or salmon flavor
 - Avoid grain-free duck and pea which is high in sodium
 - Try to use the smallest size possible (ideally, the cat sized Pill Pockets, even for dogs) and as few as possible to avoid excessive salt.
 - Caution: Not all similar products from other companies are low in sodium .

Dogs

- Soft fruit, such as banana, orange, melon, or strawberries (avoid grapes)
- Peanut butter (only if labeled as "no salt added") – examples include Smucker's Natural Creamy Peanut Butter with No Salt Added or Teddie All Natural Smooth Unsalted Butter
- Frosting (should be less than 75 mg/serving and contain no artificial sweeteners or xylitol). Examples include Duncan Hines whipped vanilla frosting, Betty Crocker whipped vanilla frosting)

You may find our Petfoodology post called, "Pill-popping pets" helpful for additional ideas:

http://vetnutrition.tufts.edu/2018/09/foods_for_giving_pills/

Cummings

Veterinary Medical Center

AT TUFTS UNIVERSITY

Cardiology Liaison: 508-887-4696

B6

Patient ID:

Kris

Male (Neutered) Treeing Walker

Coonhound

Tricolor

Cardiology Appointment Report

Date: 6/7/2019

Attending Cardiologist:

John E. Rush DVM, MS, DACVIM (Cardiology), DACVECC

B6

Cardiology Resident:

Cardiology Technician:

B6

Student:

Presenting Complaint: Redcheck. DMVD with decreased contractile function and recent history of CHF (5/22/19). Persistent mild to moderate ascites during last visit 5/29/19.

Concurrent Diseases:

Blindness- unknown etiology (saw optho but declined further diagnostics)

General Medical History:

Appetite back to normal, taking medications no problem, less restless, belly seems less distended than last visit. Looks thinner than he was prior to CHF

History of splenic hematoma.

Had loose bowel movements recently but also had change in diet.

Flaky skin

Blind

Diet and Supplements:

Royal canin early cardiac- 4 cups a day

Cardiovascular History:

Prior CHF diagnosis? Y

Prior heart murmur? Y- III

Prior ATE? N

Prior arrhythmia? N

Monitoring respiratory rate and effort at home? Y averaging 33

Cough? N

Shortness of breath or difficulty breathing? N

Syncope or collapse? N

Sudden onset lameness? N

Exercise intolerance? N

Current Medications Pertinent to CV System:

B6

Cardiac Physical Examination:

B6

Muscle condition:

- | | |
|--|--|
| <input type="checkbox"/> Normal | <input type="checkbox"/> Moderate cachexia |
| <input checked="" type="checkbox"/> Mild muscle loss | <input type="checkbox"/> Marked cachexia |

Cardiovascular Physical Exam:

Murmur Grade:

- | | |
|--|--------------------------------|
| <input type="checkbox"/> None | <input type="checkbox"/> IV/VI |
| <input type="checkbox"/> I/VI | <input type="checkbox"/> V/VI |
| <input checked="" type="checkbox"/> II/VI | <input type="checkbox"/> VI/VI |
| <input checked="" type="checkbox"/> III/VI | |

Murmur location/description: left apical systolic

Jugular vein:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Bottom 1/3 of the neck | <input type="checkbox"/> 1/2 way up the neck |
|--|--|

Middle 1/3 of the neck

Top 2/3 of the neck

Arterial pulses:

- Weak
- Fair
- Good
- Strong

- Bounding
- Pulse deficits
- Pulsus paradoxus
- Other:

Arrhythmia:

- None
- Sinus arrhythmia
- Premature beats

- Bradycardia
- Tachycardia

Gallop:

- Yes
- No
- Intermittent

- Pronounced
- Other:

Pulmonary assessments:

- Eupneic
- Mild dyspnea
- Marked dyspnea
- Normal BV sounds

- Pulmonary crackles
- Wheezes
- Upper airway stridor

Abdominal exam:

- Normal
- Hepatomegaly
- Abdominal distension

- Mild ascites
- Marked ascites

Problems:

CMVD;

Hx of CHF;

Hx of ascites;

Diagnostic plan:

- Echocardiogram
- Chemistry profile
- ECG
- Renal profile
- Blood pressure

- Dialysis profile
- Thoracic radiographs
- NT-proBNP
- Troponin I
- Other tests: fluid check

Echocardiogram Findings:

General/2-D findings: *fluid check*

There is very mild ascites visualized. No pericardial effusion or b-lines seen.

Assessment and recommendations:

Findings consistent with marked improvement on abdominal fluid and, since patient is clinically better with good appetite and energy level, recommend maintain current medications doses and frequency. Since blood work revealed increase in kidney values **B6** will be kept SID instead of increasing to BID. Clients oriented to measure belly twice a week and keep counting respiratory rate. Recommend start fish oil since patient has moderate cachexia. Recheck kidney values and echocardiogram in 2 months, sooner if clinical signs occur such as decreased appetite, lethargy, abdominal distension, or dyspnea.

Final Diagnosis:

DMVD with PHTN;

Reduced contractile function.

Heart Failure Classification Score:

ISACHC Classification:

Ia

Ib

II

IIIa

IIIb

ACVIM Classification:

A

B1

B2

C

D



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**

GI Lab Assigned Clinic ID: 23523

Dr. Freeman
 Tufts Cummings School of Vet Med - Cardiology/Nutrition
 200 Westboro Road
 North Grafton, MA 01536
 USA

Phone: 508 887 4696
 Fax:
 Animal Name: **B6**
 Owner Name:
 Species: Canine
 Date Received: May 30, 2019

Tufts Cummings School of Vet Med -
 Cardiology/Nutrition Tracking Number:
 309861

GI Lab Accession: **B6**

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

B6

Comments:

GI Lab Contact Information

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

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

From: Jones, Jennifer L </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0f6ca12eaa9348959a4cbb1e829af244-Jennifer.Jo>
To: Palmer, Lee Anne; Rotstein, David; Palmer, Lee Anne; Queen, Jackie L
CC: Ceric, Olgica; Nemser, Sarah; 'Reimschuessel, Renate (Renate.Reimschuessel@fda.hhs.gov)'
Sent: 5/9/2018 10:53:13 AM
Subject: RE: Zignature Kangaroo Formula: 800.261- EON-351031- [B6] vet
Attachments: EON-351031- [B6] MRx.pdf

This was the product with low Taurine we recently tested (per feline AAFCO minimum Tau).

Golden Retriever with low blood taurine and a persistent history of arytoid dysfunction, possible [B6] responsive infectious [B6] Since 9 months old

MRx summary:

Presenting complaint 2/23/2018: CHF possible, consult; tachycardia, last 3 days dyspneic, no cough, poor appetite for 2 days, usually ravenous, decreased energy level, on [B6] over a year, tried [B6] but discontinued because it wasn't helping; long history of a panting and swallowing disorder à diagnosed w/ DCM & L-CHF, tentative pulmonary edema à start [B6] à 2/27 breathing better, eating ok, increased [B6] for gagging à 3/1 Tau low, dog still on Zignature Kangaroo diet à vet said legumes in the diet likely prevent Met & Cys absorption à switched to Royal Canin Kangaroo & Oat; the dog was on Zignature Kangaroo last 2-3 years, eats milkbones and baked dog treats from a bakery; before the Zignature, he ate Acana Ranch Lamb, Natural Balance Bison & SP, Natural Balance Fish & SP, Zignature Trout & Salmon à no supplements were taken before the DCM diagnosis à by 3/13 dog was eating Royal Canin Kangaroo à 3/22 restless at night but [B6] try: [B6]

PE 2/23: [B6] gallop, panting; at rest/lying down still tachypneic

Labs: 2/23 **Whole Blood Tau:** [B6]

2/23 Echocardiogram: dilated LV w/ poor systolic function, LA enlarged, mod MR & TR, dec aortic and pulmonic flow

Prior MHx: [B6]

B6

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



From: Jones, Jennifer L
Sent: Friday, April 13, 2018 6:39 AM
To: Palmer, Lee Anne <LeeAnne.Palmer@fda.hhs.gov>
Cc: Rotstein, David <David.Rotstein@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>
Subject: RE: Zignature Kangaroo Formula: [B6] - EON-351031

Thanks, Lee Anne. No, I wasn't expecting it, but I can start with MRx!

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



From: Palmer, Lee Anne
Sent: Thursday, April 12, 2018 1:39 PM
To: Jones, Jennifer L <Jennifer.Jones@fda.hhs.gov>
Cc: Rotstein, David <David.Rotstein@fda.hhs.gov>; Carey, Lauren <Lauren.Carey@fda.hhs.gov>
Subject: FW: Zignature Kangaroo Formula: [REDACTED] - EON-351031

Hi Jen – were you expecting this one? Thx - LA

From: PFR Event [mailto:pfpreventcreation@fda.hhs.gov]
Sent: Thursday, April 12, 2018 1:36 PM
To: Cleary, Michael * <Michael.Cleary@fda.hhs.gov>; HQ Pet Food Report Notification <HQPetFoodReportNotification@fda.hhs.gov>; [REDACTED]
Subject: Zignature Kangaroo Formula: [REDACTED] - EON-351031

A PFR Report has been received and PFR Event [EON-351031] has been created in the EON System.

A "PDF" report by name "2045676-report.pdf" is attached to this email notification for your reference.

Below is the summary of the report:

EON Key: EON-351031

ICSR #: 2045676

EON Title: PFR Event created for Zignature Kangaroo Formula; 2045676

AE Date	02/22/2018	Number Fed/Exposed	1
Best By Date		Number Reacted	1
Animal Species	Dog	Outcome to Date	Stable
Breed	Retriever - Golden		
Age	6 Years		
District Involved	PFR [REDACTED] DO		

Product information

Individual Case Safety Report Number: 2045676

Product Group: Pet Food

Product Name: Zignature Kangaroo Formula

Description: Feb 23, 2018 Patient presented to the cardiology service at [REDACTED]

Falls for tachypnea. He was diagnosed with dilated cardiomyopathy and left side congestive heart failure. Whole blood taurine level was [REDACTED] At the time, patient consuming Zignature Kangaroo Formula and was advised to change.

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
Zignature Kangaroo Formula		

Sender information

B6

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

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.

Patient History Report

Client: Phone: Address:	<div style="font-size: 2em; font-weight: bold;">B6</div>	Patient: B6 Species: Canine Age: B6 Color: Blonde	Breed: Retriever, Golden Sex: Neutered Male
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Date	Type	Staff	History
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4/12/2018	C	B6	MEDICAL COMMENTS ***ADDENDUM 4/20/2018 4/12/2018 13:26 FDA Safety Reporting Portal - Individual Case Safety Report Number (ICSR) 2045676 ADDENDUM on 4/20/2018 at 08:34:23 from B6 permission signed and returned to CS
3/24/2018	P		<div style="border: 1px dashed black; padding: 10px; text-align: center; font-size: 2em; font-weight: bold;">B6</div> <div style="border: 1px dashed black; padding: 2px; display: inline-block; margin-left: 20px;">B6</div>
3/24/2018	C		PHARMACY NOTE TTO. Meds have been refilled
3/24/2018	P		<div style="border: 1px dashed black; padding: 10px; text-align: center; font-size: 2em; font-weight: bold;">B6</div>
3/22/2018	C		COMMUNICATIONS WITH CLIENT 3/22/2018 13:03 dog is restless at night, making breathing sound, but sRR is consistently at 22 brpm, so i do not think do has pulmonary edema, will try B6 recheck in end of april <div style="border: 1px dashed black; padding: 20px; text-align: center; font-size: 4em; font-weight: bold;">B6</div>

B:Billing, C:Med note, CB:Call back, CK:Check-in, CM:Communications, D:Diagnosis, DH:Declined to history, E:Examination, ES:Estimates, I:Departing instr, L:Lab result, M:Image cases, P:Prescription, PA:PVL Accepted, PB:problems, PP:PVL Performed, PR:PVL Recommended, R:Correspondence, T:Images, TC:Tentative medl note, V:Vital signs

B6

Patient History Report

Client:
Phone:
Address:

B6

Patient: **B6**
Species: Canine
Age: **B6**
Color: Blonde

Breed: Retriever, Golden
Sex: Neutered Male

Date	Type	Staff	History
3/13/2018	C	B6	<p>COMMUNICATIONS WITH CLIENT</p> <p>3/13/2018 10:36</p> <p>SWO - Owner consented to reporting B6 case to the FDA. He has been on the Zignature Kangaroo for the past 2-3 years. Treats include Milkbones and baked dog treats from pet bakery. Prior to the Zignature Kangaroo, he consumed the Acana Ranch Lamb, Natural Balance Sweet Potato and Bison, Natural Balance Sweet Potato and Fish, Zignature Trout & Salmon. He was receiving no supplements prior to his DCM diagnosis. Owner will forward me a copy of her most recent Chewy.com receipt for the Zignature. She does not have the bag anymore. I will email her for additional information. She is now feeding the Royal Canin Kangaroo and Oats.</p>
3/1/2018	D		Taurine Deficiency Final
3/1/2018	C		<p>COMMUNICATIONS WITH DOCTOR</p> <p>3/1/2018 13:22</p> <p>i called vet, to let them know taurine is low, she is still on kangaroo diet from Zignature, rec to change diet. The legumes in diet are most likely preventing methionine and cystine absorption, should switch to Royal Canin kangaroo and oats, i originally lm and he called back. he said he would call owner</p>
3/1/2018	C		<p>COMMUNICATIONS WITH CLIENT</p> <p>3/1/2018 13:20</p> <p>i called client to let her know taurine is low, she is still on kangaroo diet from Zignature, rec she talk to her vet at last appt, and she did to day at a recheck, and told her to wait. The legumes in diet are most likely preventing methionine and cystine absorption, should switch to Royal Canin kangaroo and oats, I will call her vet.</p>
2/27/2018	C		<p>COMMUNICATIONS WITH CLIENT</p> <p>2/27/2018 11:03</p> <p>i called owner, dog is breathing better, eating fine, getting sRR 18-26, did have throat issues, does gagging, pred helped, increased pred again, continue as planned, waiting on taurine level. if normla will start B6</p>
2/24/2018	L		Miscellaneous results from B4, B6

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative medl note, V: Vital signs

B6

Patient History Report

Client: Phone: Address:	B6	Patient: B6 Species: Canine Age: B6 Color: Blonde	Breed: Retriever, Golden Sex: Neutered Male
--	-----------	--	--

Date	Type	Staff	History
------	------	-------	---------

(East) Requisition ID: B6 Posted Final
 Asc: B6 Profile: Taurine RE: 16759 Taurine B6
 Normal Values (nmols/ml)

Level	Normal Range	Critical
Cat Plasma	60-120	Less than
40		
Whole Blood	300-600	Less than
200		
Dog Plasma	60-120	Less than
40		
Whole Blood	200-350	Less than
150		

TEST PERFORMED AT: B4, B6 LABORATORY

2/23/2018	C		PHARMACY NOTE <div style="border: 1px dashed black; padding: 5px; text-align: center; font-size: 1.5em; font-weight: bold;">B6</div>
-----------	---	--	---

2/23/2018 D 2/23/2018 D 2/23/2018 D 2/23/2018 I	B6	Pulmonary Edema Tentative Taurine Deficiency Tentative Date Diagnosis made final: 03/01/18 Dilated Cardiomyopathy Tentative Cardiology Discharge Instructions B6 2/23/2018 A cardiologist has evaluated B6 and has diagnosed her with Dilated Cardiomyopathy (DCM). DCM means your pet has poor muscle contraction of the heart. This means the heart muscle does not pump as well as a normal dog. The heart has enlarged due to the poor muscle contraction. The change in the heart has caused fluid to form in the lungs, causing increased respiratory rate. Please take a sleeping respiratory rate (sRR) at home. WHILE YOUR PET IS SLEEPING, count the number of times they breathe in over 15 seconds. Your pet should have 8 breathes or less over 15 seconds while sleeping. Do this once a day over the next 3 days, then 2 times a week thereafter. The free app software for iPhone and Google Play that can help with this is Cardalis
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B:Billing, C:Med note, CB:Call back, CK:Check-in, CM:Communications, D:Diagnosis, DH:Declined to history, E:Examination, ES:Estimates,
 I:Departing instr, L:Lab result, M:Image cases, P:Prescription, PA:PVL Accepted, PB:problems, PP:PVL Performed, PR:PVL Recommended,
 R:Correspondence, T:Images, TC:Tentative medl note, V:Vital signs

Patient History Report

Client:
Phone:
Address:

B6

Patient: **B6**
Species: Canine
Age: **B6**
Color: Blonde

Breed: Retriever, Golden
Sex: Neutered Male

Date	Type	Staff	History
------	------	-------	---------

I have submitted blood for a taurine level. The result may not return for 2 weeks. In the mean time, please start Taurine at home, 2 gram two times a day with food. This can be purchased at any health food store. I will call in about 2 weeks with a taurine level.

MEDICATIONS:

B6

Watch for the following clinical signs and call a veterinarian if you see any of these:
Excessive panting or wheezing
Restlessness, unable to get comfortable
Decreased appetite
Lethargy/weakness, less interactive or hiding
Collapse or fainting
Sudden rear leg or front leg lameness
Open-mouth breathing

It has been a pleasure meeting you and caring for your **B6**. Thank you for entrusting us with her care. If you have any further questions or problems, don't hesitate to call.

2/23/2018 P

B6

B6

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative medl note, V: Vital signs

B6

Patient History Report

Client:
Phone:
Address:

B6

Patient: **B6**
Species: Canine
Age: **B6**
Color: Blonde

Breed: Retriever, Golden
Sex: Neutered Male

Date	Type	Staff	History
------	------	-------	---------

2/23/2018 P

B6

B6

2/23/2018 C

CARDIAC EVALUTION - CLOSED 02/24/2018 - Cardiac Evaluation

Date of evaluation: Friday, February 23, 2018

CHIEF COMPLAINT: tachypnea

HISTORY: last 3 days has been working hard to breath. No coughing. Appetite has been poor last 2 days, usually ravenous. Energy level seems down. No cardiac medications **B6** for over year, Tried thyroid medication but stopped it, did not help. Has long history of panting and swallowing disorder.

PHYSICAL EXAM:

B6

B6

ECHOCARDIOGRAM 2/23/18:

B6

B6

COMMENTS: dilated LV with poor systolic function. Left atrial enlargement. Large EPSS. Moderate MR and TR. Reduce aortic and pulmonic flows. no pleural or pericardial effusion

DIAGNOSIS/PROBLEM LIST: dilated cardiomyopathy (DCM), left side congestive heart failure (LCHF)

SUMMARY: The dilated cardiomyopathy may be related to diet and taurine deficiency. There have been personal communications amongst cardiologist of a rash of cases of Golden Retrievers on grain free and/or kangaroo diets that have taurine deficiency cardiomyopathy. We pulled a whole blood level taurine today and started **B6** I also started **B6** as below. If taurine deficiency

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative medl note, V: Vital signs

B6

Page 5 of 30

Date: 4/20/2018 5:17 PM

Patient History Report

Client: Phone: Address:	B6	Patient: B6 Species: Canine Age: B6 Color: Blonde	Breed: Retriever, Golden Sex: Neutered Male
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Date	Type	Staff	History
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cardiomyopathy, this could be reversible. It could take 2 months to see echo changes, but dog may feel better within a month. Recheck echocardiogram in 2 months. We should recheck a taurine level in 2 weeks. They will most likely do that with B6

MEDICATIONS:

B6

2/23/2018 V	B6	Feb 23, 2018 01:06 PM Staff: B6	Weight : 40.00 kilograms room 14
2/23/2018 CK		CHF poss, setup by rdvm Reason for Visit: Consult Date Patient Checked Out: 02/23/18 Practice TF Callback - Call Client Back (CB)	
2/23/2018 CB		--- Note from B6 on 2/23/2018 at 15:51:32 --- Called Wedgewood Pharmacy, spoke to B6 --- Note from B6 on 2/23/2018 at 15:06:34	
		B6	
2/22/2018 TC		RECORDS FROM B6 (see attachment) - TENTATIVE 2/22/2018 14:47 rDVM records attached. - Attachment(s)	
3/10/2017 C		COMMUNICATIONS WITH CLIENT 3/10/2017 10:26 <div style="border: 1px dashed black; padding: 20px; text-align: center; font-size: 2em; font-weight: bold; margin-top: 10px;">B6</div>	

3/8/2017 L		Endocrinology results from B4, B6 (East) Requisition ID: 315958	Posted Final
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Patient History Report

Client:
Phone:
Address:

B6

Patient: **B6**
Species: Canine
Age: **B6**
Color: Blonde

Breed: Retriever, Golden
Sex: Neutered Male

Date	Type	Staff	History
------	------	-------	---------

Test	Result	Reference Range
TSH	B6	0 - 0.60
Asc n:	B6	Profile: TSH

3/7/2017 C	B6	RADIOLOGY REVIEW - CLOSED 03/08/2017
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B6

This review was written by: **B6**

3/7/2017 V	B6	Mar 7, 2017 04:21 PM Staff: B6
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Weight : 41.40 kilograms

3/7/2017 CK	B6	recheck for ESO Reason for Visit: Recheck Date Patient Checked Out: 03/07/17 Practice TF
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3/7/2017 C	B6	IM PHYSICAL EXAM NEW 3/7/2017 10:10
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Chief Complaint: reevaluation of hard swallowing; upper airway noise

History: **B6** was originally evaluated in 2015 for hard swallowing, gagging. A laryngeal exam at that time revealed a nodule on the larynx which was biopsied as granulomatous. He has been on low dose prednisone since. Owner still notices hard swallowing and sometimes regurgitation. He also has upper airway noise when sleeping- breathes through nose and no nasal discharge. Occasional hoarse bark. No diarrhea, no pu/pd. He has gained weight. In 2015 a myasthenia titer was negative. Diet includes zignature kangaroo. unsure of current dose of pred 1 tab in morning and sometimes 1/2 tab at night unsure what strength

Previous Medical Problems:

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B6

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Date: 4/20/2018 5:17 PM

Patient History Report

Client:
Phone:
Address:

B6

Patient: **B6**
Species: Canine
Age: **B6**
Color: Blonde

Breed: Retriever, Golden
Sex: Neutered Male

Date	Type	Staff	History
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Medications/Supplements:

Current Diet:

B6

Diagnostics:

Lab Work: see below

B6

Problems/Differential Diagnoses/Assessment:

B6

Treatment:

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative medl note, V: Vital signs

B6

Patient History Report

Client:
Phone:
Address:

B6

Patient: B6
 Species: Canine
 Age: B6
 Color: Blonde

Breed: Retriever, Golden
 Sex: Neutered Male

Date	Type	Staff	History
------	------	-------	---------

Plan/Recommendations:

3/7/2017 L

		B6	
Hematology results from		B6	Requisition
ID: 315958	Posted	Final	
Test	Result		Reference Range
HCT	B6		36 - 60
HGB			12.1 - 20.3
MCHC			30 - 38
WBC			4.0 - 15.5
Bands			0 - 3
RBC			4.8 - 9.3
MCV			58 - 79
MCH			19 - 28
ABS BASO			0 - 150
Platelet C			170 - 400
Platelet E			
Neutrophil			60 - 77
Lymphocyte			12 - 30
Monocytes			3 - 10
Eosinophil			2 - 10
Basophils			0 - 1
Absolute N			2060 - 10600
Absolute L			690 - 4500
Absolute M			0 - 840
Absolute E			0 - 1200

Ascn: B6 Profile: Complete Blood Count

Platelet count reflects the minimum number due to platelet clumping.

3/7/2017 L

		B6	
Chemistry results from		B6	Requisition
ID: 315958	Posted	Final	
Test	Result		Reference Range
ALB	B6		2.7 - 4.4
ALKP			5 - 131
ALT			12 - 118
AMYL			290 - 1125
AST			15 - 66
BUN/UREA			6 - 31
Ca			8.9 - 11.4
Chloride			102 - 120
CHOL			92 - 324
CK			59 - 895
CREA			0.5 - 1.6
GGT			1 - 12

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B6

Patient History Report

Client:
Phone:
Address:

B6

Patient: **B6**
Species: Canine
Age: **B6**
Color: Blonde

Breed: Retriever, Golden
Sex: Neutered Male

Date	Type	Staff	History
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GLU	B6	70 - 138
Mg		1.5 - 2.5
PHOS		2.5 - 6.0
Potassium		3.6 - 5.5
Sodium		139 - 154
TBIL		0.1 - 0.3
TP		5.0 - 7.4
TRIG		29 - 291
GLOB		1.6 - 3.6
A/G Ratio		0.8 - 2.0
B/C Ratio		4 - 27
Na/K Ratio		27 - 38

3/7/2017 L

Endocrinology results from **B4, B6**
B4, B6 Requisition ID: 315958 Posted Final
 Test Result Reference Range
 T4 **B6** µg/dL L 0.8 - 3.5
 Asc: **B6** Profile: Total T4

The Total T4 result is less than 1.0 mcg/dl. A Free-T4 by equilibrium dialysis may be helpful in supporting the diagnosis of hypothyroidism in patients demonstrating clinical signs compatible with hypothyroidism. Please contact Customer Service for this additional testing.

3/7/2017 L

Miscellaneous results from **B4, B6**
B4, B6 Requisition ID: 315958 Posted Final
 Asc: **B6** Profile: Superchem

B6

3/6/2017 C

B6

COMMUNICATIONS WITH CLIENT
 3/6/2017 12:55
 sto confirmed appt w/ **B6** @ 330 on 3/7

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative medl note, V: Vital signs

Patient History Report

Client: Phone: Address:	B6	Patient: B6 Species: Canine Age: B6 Color: Blonde	Breed: Retriever, Golden Sex: Neutered Male
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Date	Type	Staff	History
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2/26/2017	C	B6	COMMUNICATIONS WITH CLIENT 2/26/2017 10:15 LMOM to confirm 3:30 pm ESO appt tomorrow
2/23/2017	TC		RECORDS FROM RDVM/LDVM (see attachment) - TENTATIVE 2/23/2017 20:36 Records from B6 Attachment(s)
2/23/2017	C		COMMUNICATIONS WITH DOCTOR 2/23/2017 17:18 B6 to request updated records from 5/3/15 forward be faxed
2/20/2016	C		RECEPTION ACTIONS NOTE faxed ref letters and labs to B6 per o's req
9/28/2015	C		OUTSIDE PHARMACY RX ***ADDENDUM 10/2/2015 - Closed Sep 30/2015 <div style="text-align: center; font-size: 4em; font-weight: bold; border: 1px dashed black; padding: 20px; width: fit-content; margin: 0 auto;">B6</div>

Is this medication a controlled substance?

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B6

Patient History Report

Client:
Phone:
Address:

B6

Patient: **B6**
Species: Canine
Age: **B6**
Color: Blonde

Breed: Retriever, Golden
Sex: Neutered Male

Date Type Staff History

Additional Comments: faxed
ADDENDUM on 10/1/2015 at 21:11:18 from **B6**

B6

9/28/2015 C

COMMUNICATIONS WITH CLIENT

9/28/2015 13:29

B6 was good for 2 months, then small flair up, then went away again for a few months. last time, we discussed repeat abx treat may not be helpful. discussed that we can repeat abx treatment as it worked for such a long period of time. discussed dual treatment for **B6**

B6

B6

6/1/2015 C

B6

OUTSIDE PHARMACY RX - Closed Jun 04/2015

B6

B:Billing, C:Med note, CB:Call back, CK:Check-in, CM:Communications, D:Diagnosis, DH:Declined to history, E:Examination, ES:Estimates, I:Departing instr, L:Lab result, M:Image cases, P:Prescription, PA:PVL Accepted, PB:problems, PP:PVL Performed, PR:PVL Recommended, R:Correspondence, T:Images, TC:Tentative medl note, V:Vital signs

B6

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Date: 4/20/2018 5:17 PM

Patient History Report

Client: Phone: Address:	<div style="font-size: 2em; font-weight: bold;">B6</div>	Patient: B6 Species: Canine Age: B6 Color: Blonde	Breed: Retriever, Golden Sex: Neutered Male
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Date	Type	Staff	History
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6/1/2015	C		COMMUNICATIONS WITH CLIENT 6/1/2015 16:05 within the last 3 days stopped doing the neck movement/episodes that he was having. still sounds congested. when he barks there sounds like there is something in there. would continue B6 unless we are planning to rescope him. owner needs refill of B6 will touch base in 1-2 wks.
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5/17/2015	C	<div style="font-size: 1.5em; font-weight: bold;">B6</div>	COMMUNICATIONS WITH CLIENT 5/17/2015 10:26 swo and asked how B6 is doing, owner said she started ab's yesterday and so far he is doing well, owner will recheck in one week
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5/15/2015	C		OUTSIDE PHARMACY RX - Closed May 17/2015 <div style="border: 1px dashed black; padding: 50px; text-align: center; font-size: 4em; font-weight: bold; margin-top: 20px;">B6</div>
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5/15/2015	C	<div style="font-size: 1.5em; font-weight: bold;">B6</div>	OUTSIDE PHARMACY RX <div style="border: 1px dashed black; padding: 2px; display: inline-block;">B6</div>
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B6

Patient History Report

Client:
Phone:
Address:

B6

Patient: **B6**
Species: Canine
Age: **B6**
Color: Blonde

Breed: Retriever, Golden
Sex: Neutered Male

Date	Type	Staff	History
------	------	-------	---------

Prescribing doctor: **B6**

B6

5/15/2015 C

B6

COMMUNICATIONS WITH CLIENT ***ADDENDUM 5/15/2015
5/15/2015 16:27

B6

5/12/2015 C

B6

COMMUNICATIONS WITH CLIENT
5/12/2015 14:50

B6

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative medl note, V: Vital signs

B6

Patient History Report

Client:
Phone:
Address:

B6

Patient: **B6**
Species: Canine
Age: **B6**
Color: Blonde

Breed: Retriever, Golden
Sex: Neutered Male

Date Type Staff History

B6

5/12/2015 C

B6

IM TREATMENT NEW
5/12/2015

Internal Medicine Assessment: **B6**

B6

5/8/2015 L

Miscellaneous results from **B4, B6**
B4, B6 Requisition ID: 315958 Posted Final
Ascn: **B6** Profile: Histopathology, Full Written
Report
RE: 7801 History:

B6

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative medl note, V: Vital signs

B6

Patient History Report

Client:
Phone:
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B6

Patient: **B6**
Species: Canine
Age: **B6**
Color: Blonde

Breed: Retriever, Golden
Sex: Neutered Male

Date Type Staff History

B6

Received: Multiple fragments - all processed.
RE: 601 Biopsy
DESCRIPTION/MICROSCOPIC FINDINGS/COMMENTS:

B6

MICROSCOPIC FINDINGS: **B6**

B6

PROGNOSIS: Good

COMMENT: **B6**

B6

PATHOLOGIST:

PATHOLOGIST: **B6**
email: **B6**

5/7/2015 I

B6

For your pet's safety, he/she was intubated for the anesthetic. You may notice

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative medl note, V: Vital signs

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Patient History Report

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B6

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Species: Canine
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Breed: Retriever, Golden
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Date	Type	Staff	History
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5/7/2015 I

5/7/2015 I

B6

B6

5/7/2015 C

COMMUNICATIONS WITH CLIENT

5/7/2015 14:10

called owner post procedure. discussed scope findings. and discussed possible causes for findings. no treatment recommended until results available. okay to d/c at 5 pm.

5/7/2015 C

B6

ENDOSCOPIC EVALUATION

B6

Lower Gastrointestinal:

Bronchoscopy:

Rhinocopy:

Cystoscopy:

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative medl note, V: Vital signs

B6

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Date: 4/20/2018 5:17 PM

Patient History Report

Client:
Phone:
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B6

Patient: B6
 Species: Canine
 Age: B6
 Color: Blonde

Breed: Retriever, Golden
 Sex: Neutered Male

Date	Type	Staff	History
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Other:

Biopsies: B6

Culture/Sensitivity:

Visual Inspection: B6

Initial Recommendations: B6

5/7/2015 C

B6

IM TREATMENT NEW
5/7/2015

Internal Medicine Assessment: B6

B6

Treatment: no treatment today

Recommended Follow-up Care: B6

5/7/2015 C

B6

IM PHYSICAL EXAM
Chief Complaint:

History: B6

B6

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Patient History Report

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Address:

B6

Patient: **B6**
Species: Canine
Age: **B6**
Color: Blonde

Breed: Retriever, Golden
Sex: Neutered Male

Date	Type	Staff	History
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B6

Significant Physical Exam Findings: Mentation: BAR

B6

Radiographic Findings: CHIEF COMPLAINT/HISTORY: 5/3/2015. Internal
Medicine Assessment:

B6

B6

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Patient History Report

Client:
Phone:
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B6

Patient: B6
 Species: Canine
 Age: B6
 Color: Blonde

Breed: Retriever, Golden
 Sex: Neutered Male

Date	Type	Staff	History
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B6

5/7/2015 L

Chemistry results from IDEXX VetLab In-clinic
 Laboratory Requisition ID: 197

Test	Result	Posted	Final
ALB =	B6	2.3 - 4.0	Reference Range
ALKP =		23 - 212	
ALT =		10 - 125	
AMYL =		500 - 1500	
BUN/UREA =		7 - 27	
Ca =		7.9 - 12.0	
Chloride =		109 - 122	
CHOL =		110 - 320	
CREA =		0.5 - 1.8	
GGT <		0 - 11	
GLU =		74 - 143	
LIPA =		200 - 1800	
PHOS =		2.5 - 6.8	
Potassium =		3.5 - 5.8	
Sodium =		144 - 160	
TBIL =		0.0 - 0.9	
TP =		5.2 - 8.2	
GLOB =	2.5 - 4.5		
ALB/GLOB =			
BUN/CREA =			
Na/K =			
OSM calc =			

PCV=49% TS= 6.8g/dl (serum norm)

5/7/2015 V

B6

May 7, 2015 10:20 AM Staff: B6

Weight : 36.60 kilograms

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B6

Patient History Report

Client:
Phone:
Address:

B6

Patient: **B6**
Species: Canine
Age: **B6**
Color: Blonde

Breed: Retriever, Golden
Sex: Neutered Male

Date Type Staff History

B6

5/7/2015 L

Hematology results from IDEXX VetLab In-clinic
Laboratory Requisition ID: 197

Test	Result	Posted	Final	Reference Range
HCT =	B6			37.3 - 61.7
HGB =				13.1 - 20.5
MCHC =				32.0 - 37.9
WBC =				5.05 - 16.76
NEUT =				2.95 - 11.64
%NEUT =				
EOS =				0.06 - 1.23
%EOS =				
PLT *				148 - 484
Retics =				10.0 - 110.0
%Retics =				
RBC =				5.65 - 8.87
MCV =				61.6 - 73.5
MCH =				21.2 - 25.9
RDW =				13.6 - 21.7
MPV -				8.7 - 13.2
PDW -				9.1 - 19.4
PCT -				0.14 - 0.46
LYMPHS =				1.05 - 5.10
%LYMPHS =				
MONOS =			0.16 - 1.12	
%MONOS =				
BASO =			0.00 - 0.10	
%BASO =				

5/7/2015 C **B6** RADIOLOGY REPORT - FINAL 05/07/2015
RADIOGRAPHIC REPORT

CHIEF COMPLAINT/HISTORY: 5/3/2015.

B6

B6

FINDINGS:

B6

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B6

Patient History Report

Client: Phone: Address:	B6	Patient: Species: Age: Color:	<div style="border: 1px dashed black; padding: 2px; display: inline-block;">B6</div> Canine <div style="border: 1px dashed black; padding: 2px; display: inline-block;">B6</div> Blonde	Breed: Retriever, Golden Sex: Neutered Male
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Date	Type	Staff	History
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No significant abnormalities are present in the extra-thoracic soft tissues, skeletal structures, pleural and mediastinal spaces, pulmonary and cardiovascular structures, as well as in the visible cranial abdomen.

SUMMARY/CONCLUSIONS:

1.

B6

5/7/2015 CK			B6
5/6/2015 C	B6		COMMUNICATIONS WITH CLIENT 5/6/2015 11:48 <div style="border: 1px dashed black; padding: 10px; text-align: center; font-size: 2em; font-weight: bold;">B6</div>
5/3/2015 C			IM TREATMENT NEW 5/3/2015 Internal Medicine Assessment <div style="border: 1px dashed black; padding: 2px; display: inline-block; font-weight: bold; font-size: 0.8em;">B6</div> <div style="border: 1px dashed black; padding: 20px; text-align: center; font-size: 4em; font-weight: bold; margin-top: 10px;">B6</div>

Treatment: no treatment implemented

Recommended Follow-up Care: to return Thursday for further evaluation - chemistry, CBC thoracic radiographs, oral exam and endoscopy

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Patient History Report

Client:
Phone:
Address:

B6

Patient: **B6**
Species: Canine
Age: **B6**
Color: Blonde

Breed: Retriever, Golden
Sex: Neutered Male

Date	Type	Staff	History
------	------	-------	---------

5/3/2015 C

B6

IM PHYSICAL EXAM
Chief Complaint:

History: **B6**

B6

Significant Physical Exam Findings: Mentation **B6**

B6

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B6

Patient History Report

Client: Phone: Address:	B6	Patient: B6 Species: Canine Age: B6 Color: Blonde	Breed: Retriever, Golden Sex: Neutered Male
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Date	Type	Staff	History
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B6

Lab Work: none performed today

Radiographic Findings: none performed today

5/3/2015	CK		Reason for Visit: Recheck Date Patient Checked Out: 05/03/15 Practice TF
11/21/2014	C	B6	COMMUNICATIONS WITH CLIENT 11/21/2014 13:54 <div style="border: 1px dashed black; padding: 10px; text-align: center; font-size: 1.5em; font-weight: bold; margin-top: 5px;"> B6 </div>
11/14/2014	CK	B6	<div style="border: 1px dashed black; padding: 10px; text-align: center; font-size: 1.5em; font-weight: bold; margin-top: 5px;"> B6 </div>
5/31/2014	C	B6	IM TREATMENT NEW 5/31/2014 Internal Medicine Assessment: B6 <div style="border: 1px dashed black; padding: 10px; text-align: center; font-size: 1.5em; font-weight: bold; margin-top: 5px;"> B6 </div> <div style="border: 1px dashed black; padding: 10px; text-align: center; font-size: 2em; font-weight: bold; margin-top: 10px;"> B6 </div>

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B6

Patient History Report

Client: Phone: Address:	B6	Patient: B6 Species: Canine Age: B6 Color: Blonde	Breed: Retriever, Golden Sex: Neutered Male
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Date	Type	Staff	History
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			Treatment: no treatment implemented at this time Recommended Follow-up Care: B6 <div style="border: 1px dashed black; padding: 5px; text-align: center; font-size: 1.5em; font-weight: bold;">B6</div>
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5/31/2014 C	B6		COMMUNICATIONS WITH CLIENT 5/31/2014 11:29 <div style="border: 1px dashed black; padding: 5px; text-align: center; font-size: 1.5em; font-weight: bold;">B6</div>
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5/31/2014 L			Hematology results from B6 Requisition ID: 315958 Posted FINAL <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Test</th> <th style="width: 30%;">Result</th> <th style="width: 40%;">Reference Range</th> </tr> </thead> <tbody> <tr><td>HCT</td><td></td><td>36 - 60</td></tr> <tr><td>HGB</td><td></td><td>12.1 - 20.3</td></tr> <tr><td>MCHC</td><td></td><td>30 - 38</td></tr> <tr><td>WBC</td><td></td><td>4.0 - 15.5</td></tr> <tr><td>Bands</td><td></td><td>0 - 3</td></tr> <tr><td>RBC</td><td></td><td>4.8 - 9.3</td></tr> <tr><td>MCV</td><td></td><td>58 - 79</td></tr> <tr><td>MCH</td><td></td><td>19 - 28</td></tr> <tr><td>Platelet C</td><td></td><td>170 - 400</td></tr> <tr><td>Platelet E</td><td></td><td>ADEQUATE -</td></tr> <tr><td>Neutrophil</td><td></td><td>60 - 77</td></tr> <tr><td>Lymphocyte</td><td></td><td>12 - 30</td></tr> <tr><td>Monocytes</td><td></td><td>3 - 10</td></tr> <tr><td>Eosinophil</td><td></td><td>2 - 10</td></tr> <tr><td>Basophils</td><td></td><td>0 - 1</td></tr> <tr><td>Absolute N</td><td></td><td>2060 - 10600</td></tr> <tr><td>Absolute B</td><td></td><td>0 - 150</td></tr> <tr><td>Absolute L</td><td></td><td>690 - 4500</td></tr> <tr><td>Absolute M</td><td></td><td>0 - 840</td></tr> <tr><td>Absolute E</td><td></td><td>0 - 1200</td></tr> </tbody> </table> Ascn: B6 Profile: CBC Platelet count reflects the minimum number due to platelet clumping.	Test	Result	Reference Range	HCT		36 - 60	HGB		12.1 - 20.3	MCHC		30 - 38	WBC		4.0 - 15.5	Bands		0 - 3	RBC		4.8 - 9.3	MCV		58 - 79	MCH		19 - 28	Platelet C		170 - 400	Platelet E		ADEQUATE -	Neutrophil		60 - 77	Lymphocyte		12 - 30	Monocytes		3 - 10	Eosinophil		2 - 10	Basophils		0 - 1	Absolute N		2060 - 10600	Absolute B		0 - 150	Absolute L		690 - 4500	Absolute M		0 - 840	Absolute E		0 - 1200
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5/31/2014 L			Chemistry results from B6 Requisition
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Patient History Report

Client:
Phone:
Address:

B6

Patient: B6
 Species: Canine
 Age: B6
 Color: Blonde

Breed: Retriever, Golden
 Sex: Neutered Male

Date Type Staff History

ID: 315958	Posted	Final	
Test	Result		Reference Range
ALB	B6		2.7 - 4.4
ALKP			5 - 131
ALT			12 - 118
AMYL			290 - 1125
AST			15 - 66
BUN/UREA			6 - 31
Ca			8.9 - 11.4
Chloride			102 - 120
CHOL			92 - 324
CK			59 - 895
CREA			0.5 - 1.6
GGT			1 - 12
GLU			70 - 138
LIPA			77 - 695
Mg			1.5 - 2.5
PHOS			2.5 - 6.0
Potassium			3.6 - 5.5
Sodium			139 - 154
TBIL			0.1 - 0.3
TP			5.0 - 7.4
TRIG		29 - 291	
GLOB		1.6 - 3.6	
A/G Ratio		0.8 - 2.0	
B/C Ratio		4 - 27	

5/31/2014 L

Endocrinology results from B6
B6 Requisition ID: 315958 B6 Posted Final
 Test Result Reference Range
 T4 B6 0.8 - 3.5
 Asc: B6 Profile: Total T4

5/31/2014 L

Miscellaneous results from B6
B6 Requisition ID: 315958 B6 Posted Final
 Asc: B6 Profile: Superchem

B6

5/30/2014 C

B6

ULTRASOUND REPORT NEW

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative medl note, V: Vital signs

B6

Patient History Report

Client:
Phone:
Address:

B6

Patient:
Species:
Age:
Color:

B6

Canine

B6

BRONZE

Breed: Retriever, Golden
Sex: Neutered Male

Date	Type	Staff	History
------	------	-------	---------

Referring Vet: Hospital:

ULTRASONOGRAPHIC FINDING: # of

Films:

Written: 5/30/2014

B6

5/30/2014 C

B6

IM TREATMENT NEW
5/30/2014

Internal Medicine Assessment:

B6

B6

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative medl note, V: Vital signs

B6

Patient History Report

Client:
Phone:
Address:

B6

Patient: **B6**
Species: Canine
Age: **B6**
Color: Blonde

Breed: Retriever, Golden
Sex: Neutered Male

Date	Type	Staff	History
------	------	-------	---------

B6

Treatment: no treatment implemented at this time

Recommended Follow-up Care: **B6**

5/30/2014 C

B6

IM PHYSICAL EXAM NEW
5/30/2014 22:58

Presenting Complaint:

History: **B6**

B6

B6

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Patient History Report

Client:
Phone:
Address:

B6

Patient: B6
 Species: Canine
 Age: B6
 Color: Blonde

Breed: Retriever, Golden
 Sex: Neutered Male

Date	Type	Staff	History
------	------	-------	---------

B6

Lab Work: B6

Radiographic Findings: none performed

5/30/2014 I

B6

5/30/2014 V

May 30, 2014 12:26 PM Staff: B6

Weight : 37.30 kilograms

5/30/2014 V

May 30, 2014 12:26 PM

5/30/2014 CK

B6

Consult for possible scope
 Reason for Visit: Consult
 Date Patient Checked Out: 05/30/14 Practice TF
Chemistry results from IDEXX Laboratory Services Requisition
 ID: 315958 Posted Final

Test	Result	Reference Range
COBALAMIN	B6	284 - 836
FOLATE		4.8 - 19.0

Asc: B6
 SS MN CANINE

5/30/2014 L

5/29/2014 C

COMMUNICATIONS WITH CLIENT
 5/29/2014 11:08
 swo confirmed 5/30 apt at 1130

B: Billing, C: Med note, CB: Call back, CK: Check-in, CM: Communications, D: Diagnosis, DH: Declined to history, E: Examination, ES: Estimates, I: Departing instr, L: Lab result, M: Image cases, P: Prescription, PA: PVL Accepted, PB: problems, PP: PVL Performed, PR: PVL Recommended, R: Correspondence, T: Images, TC: Tentative medl note, V: Vital signs

B6

Patient History Report

Client:
Phone:
Address:

B6

Patient: **B6**
Species: Canine
Age: **B6**
Color: Blonde

Breed: Retriever, Golden
Sex: Neutered Male

Date	Type	Staff	History
5/27/2014	C	B6	RECEPTION ACTIONS NOTE B6
5/27/2014	C	B6	RECEPTION ACTIONS NOTE ***ADDENDUM 5/27/2014 B6

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B6

Report Details - EON-351031

ICSR: 2045676
 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: 2018-04-12 13:26:01 EDT

Reported Problem:
Problem Description: Feb 23, 2018 Patient presented to the cardiology service at [B6] [B6] for tachypnea. He was diagnosed with dilated cardiomyopathy and left side congestive heart failure. Whole blood taurine level was [B6]. At the time, patient consuming Zignature Kangaroo Formula and was advised to change.
Date Problem Started: 02/22/2018
Concurrent Medical Problem: Yes
Pre Existing Conditions: [B6]
Outcome to Date: Stable

Product Information:
Product Name: Zignature Kangaroo Formula
Product Type: Pet Food
Lot Number:
Package Type: BAG
Possess Unopened Product: No
Possess Opened Product: No
Product Use Information:
Description: Owner feeding for 2-3 years prior to diagnosis.
Last Exposure Date: 03/01/2018
Time Interval between Product Use and Adverse Event: 3 Years
Product Use Stopped After the Onset of the Adverse Event: Yes
Perceived Relatedness to Adverse Event: Possibly related
Other Foods or Products Given to the Animal During This Time Period: Yes
Manufacturer /Distributor Information:
Purchase Location Information: Name: Chewy.com

Animal Information:
Name: [B6]
Type Of Species: Dog
Type Of Breed: Retriever - Golden
Gender: Male
Reproductive Status: Neutered
Weight: 40 Kilogram

	Age:	6 Years														
	Assessment of Prior Health:	Good														
	Number of Animals Given the Product:	1														
	Number of Animals Reacted:	1														
	Owner Information:	<table border="1"> <tr> <td>Owner Information provided:</td> <td>Yes</td> </tr> <tr> <td>Contact: Name:</td> <td>B6</td> </tr> <tr> <td>Phone:</td> <td></td> </tr> <tr> <td>Address:</td> <td>B6</td> </tr> <tr> <td></td> <td>United States</td> </tr> </table>	Owner Information provided:	Yes	Contact: Name:	B6	Phone:		Address:	B6		United States				
Owner Information provided:	Yes															
Contact: Name:	B6															
Phone:																
Address:	B6															
	United States															
	Healthcare Professional Information:	<table border="1"> <tr> <td>Practice Name:</td> <td>B6</td> </tr> <tr> <td>Contact: Name:</td> <td>B6</td> </tr> <tr> <td>Phone:</td> <td></td> </tr> <tr> <td>Address:</td> <td>B6</td> </tr> <tr> <td></td> <td>United States</td> </tr> <tr> <td>Type of Veterinarian:</td> <td>Referred veterinarian</td> </tr> <tr> <td>Date First Seen:</td> <td>02/23/2018</td> </tr> </table>	Practice Name:	B6	Contact: Name:	B6	Phone:		Address:	B6		United States	Type of Veterinarian:	Referred veterinarian	Date First Seen:	02/23/2018
Practice Name:	B6															
Contact: Name:	B6															
Phone:																
Address:	B6															
	United States															
Type of Veterinarian:	Referred veterinarian															
Date First Seen:	02/23/2018															
Sender Information:	Name:															
	Address:	B6														
		United States														
	Contact: Phone:															
	Email:	B6														
	Reporter Wants to Remain Anonymous:	No														
	Permission To Contact Sender:	Yes														
	Preferred Method Of Contact:	Email														
	Reported to Other Parties:	None														
Additional Documents:																