

Entlebucher Glaucoma Packet

Thank you for sending your dog's eye(s) to Dr. Gillian McLellan to further research into the terrible disease of glaucoma.

This is a guide for you and your Veterinary Clinic on the steps needed to safely ship samples to Dr. McLellan at the University of Wisconsin School of Medicine and Public Health.

The following pieces are all included in the PDF file "***Entlebucher Study paperwork for DVM and owner Aug 2022 version.pdf***"

- Owner Consent form
- CLOW submission form for your DVM and clinic.
- Collection/Handling instructions
- Explanation and FAQs of study process

Checklist:

- Owner Consent form, signed
- 5 generation pedigree (if possible)
- CLOW submission form
- Eye sample
- Blood sample (2-5ml of whole blood in an EDTA tube can also be included but is not necessary so long as DNA is either already on file with us or CHIC registry OR if owners are prepared to submit DNA swabs within the next week or two)
- Samples can be mailed to:
Attn: Dr. Gillian McLellan
University of Wisconsin-Madison
598 Medical Science Center
1300 University Avenue
Madison, WI 53706
- Tracking number for the shipment, email to gillian.mclellan@wisc.edu
- Send to arrive within five business days
- Foreign Shipping letter (if outside of USA) attached to OUTSIDE of package in clear sleeve. (separate document "dog samples shipped from overseas")
- IF THE CLINIC SHIPPING THE EYE HAS TIME / LETTERHEAD: document be supplied on foreign producer/shipper letterhead, with the letterhead containing the physical address of the foreign producer/shipper. USDA, APHIS, VS further recommends that the document, written in a clear and concise manner, accompany each shipment, and be presented as a separate document for review by the DHS, CBP Officers at the U.S. port of arrival. We do not recommend that the foreign producer/shipper place this document inside the shipping containers.
- Questions email Dr. McLellan at gillian.mclellan@wisc.edu



Date: **ENTER DATE HERE**

Attention: Customs Officials

PUT COURIER & TRACKING NUMBER here

Health Assurance

Dear Customs Service and Agents,

Enclosed in this shipment **is /are** [PUT sample type(s) here – blood, tissue, buccal swab, formalin fixed eye] from a domestic dog. These samples have no commercial value and are for scientific research applications and diagnostic purposes only. They are being shipped from [PUT NAME AND PLACE HERE] to Dr. Gillian McLellan, University of Wisconsin-Madison, 1300 University Avenue, Medical Sciences # 598, Madison, WI 53706, USA. Below is the information required in accordance with USDA Guideline # 1102.

1. The sample **(s)** are [whole blood, tissue samples / buccal swab, formalin fixed eye] of a domestic dog from [PUT PLACE OF ORIGIN HERE]. The dog from which this was derived was in good health and has not been part of any scientific experimentation.
2. The **sample(s) do(es)** not contain any other animal-derived products, particularly of agricultural concern, such as material of livestock or poultry origin. They are domestic dog products only.
3. The sample **(s) is /are** not derived from dogs that have or have been exposed to agents that are infectious or contagious agents to human beings or of USDA agricultural concern.
4. The samples have no commercial value; they are for clinical research purposes only.

If this information is not sufficient, please contact Dr. Gillian McLellan or Ms Julie Kiland at the University of Wisconsin-Madison phone: +1(608) 263-7600, or +1(608) 658 5988, E-mail : gillian.mclellan@wisc.edu.

If these samples are detained by US Customs, please maintain refrigerated until the samples can be released.

Sincerely,

Gillian J. McLellan, BVMS, PhD, DVOphthal, DECVO, DACVO, MRCVS, FARVO
Professor of Comparative Ophthalmology

Entlebucher Glaucoma Study

Please send in the following: (all necessary documents can be found in this file)

1. Signed Owner Consent form
2. COPLOW Submission Form with Enucleated Eye if applicable
 - a. The study will cover the cost of histopathology
3. DNA sample
 - a. 5-10mL of blood in EDTA tube (purple top)
 - b. If blood draw is not possible, contact us and we can send saliva swabs for DNA collection

Samples can be mailed to:

Attn: Dr. Gillian McLellan
University of Wisconsin-Madison
598 Medical Science Center
1300 University Avenue
Madison, WI 53706

*If you have any questions please email Dr. McLellan
gillian.mclellan@wisc.edu*

INFORMED CONSENT FORM: OWNER(S) OF ENTLEBUCHERS

Patient Name:

**Saliva Test Kit ID (if applicable):
or Blood Sample (volume):**

Project: The Genetic Basis of Primary Angle-Closure Glaucoma in the Entlebucher

Project Investigators:

Dr. Gillian McLellan, BVMS, PhD, DACVO
Professor of Comparative Ophthalmology
Dr. Ellison Bentley, DVM, DACVO Clinical
Professor of Comparative Ophthalmology
Dr. Peter Muir, BVSc, PhD, DACVS
Co-Director Comparative Orthopedics
and Genetics Research Laboratory

University of Wisconsin-Madison
School of Veterinary Medicine
2015 Linden Drive
Madison
Wisconsin 53706

Tel: +1 (608) 263-7600

What is this study?

Primary closed angle glaucoma is a blinding and painful disease that affects dogs of many breeds. The purpose of this study is to determine the role genetics plays in canine glaucoma, to determine the mode of inheritance if a single gene is involved, and to identify candidate genes for further investigation. The results of this work may help lower the incidence of this common eye problem in dogs, may help breeders make informed decisions, and may help veterinarians predict the risk of glaucoma in patients.

Why do you need a cheek swab or blood sample from my dog?

A cheek swab or 5-10ml blood sample from your Entlebucher will provide us with a source of DNA to analyze. Your dog's participation will help us to better understand why primary glaucoma occurs in Entlebuchers, and potentially other dog breeds as well, and will hopefully lead to the development of a genetic screening test for glaucoma in the breed.

Will my dog's information and my information be kept private?

Yes. Your name and your dog's name will be kept completely confidential. The only information we will release from our study is your dog's disease status, breed, eye color, age and sex – no identifying information such as your address or location, or your dog's name or registration number will be made public or shared outside our research group.

Does this cost anything for me?

No. We will mail you a cheek swab to use and include a stamped envelope to mail it, or a blood sample (5-10ml of whole blood in EDTA, obtained by your veterinarian), back to us.

I have read and fully understand the above. I consent to the use of my dog's DNA in this study. I understand that I am not required to include my dog in this study.

Owner Name:

Copy of 5 Generation Pedigree Attached: Yes No

Owner Phone Number:

Email address:

Street Address: _____

(City, State, Country, ZIP code): _____

Owner(s) Signature

Date

COPLOW Submissions

(Form VM-4 • Rev. 2016.03)

Comparative Ocular Pathology
Laboratory of Wisconsin (COPLOW)
Dr. Leandro Teixeira, Director
School of Veterinary Medicine



For COPLOW Lab Use Only: **MCLELLAN STUDY** _____ RD _____

Globe _____

WTG / Trimmed _____

Adnexa _____

Cornea _____

Uvea _____

Lens _____

Vitreous _____

Retina _____

Optic Nerve _____

Kept other 1/2 subm'd both 1/2s remaining tissue none _____

Cut by _____

DV Horiz Obl _____

H&E _____

White _____

Mega _____

Large _____

SUBMIT TO: McLellan Lab, 1300 University Avenue,
Rm 598 Medical Sciences, Madison, WI 53706

To contact COPLOW staff regarding sample submission:
Phone (608) 263-4958 Fax (866) 441-2154 email:
coplowfellow@vetmed.wisc.edu Submission guidelines:
<http://www.vetmed.wisc.edu/coplow>

Veterinarian

Contact Person
(if not the vet)

**Clinic, Zoo,
Hospital, Etc.**

Address

E-Mail

Phone

Fax

Return results by: Fax Email Both

Client's Name
(first last)

Animal's Name

Species dog cat horse other _____

Breed _____

Age ____ yrs. ____ mos. unk

Sex F FS M MN unk

Sample globe cornea lid TEL viscer'n
 other _____

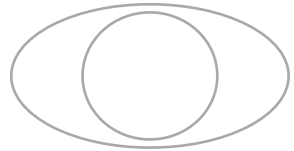
Eye OS OD OU unk

Date of surgery

Prev. RD#

Medical Observations and Findings

Ophthalmic findings



Glaucoma yes no unk

Eye color _____

Duration of problem _____ unk

General medical conditions

Is this patient alive? yes no euthanized died Reason _____ Time to fixation _____

Costs of services: MCLELLAN ENTLEBUCHER STUDY

NO COST TO OWNER / SUBMITTING VETERINARIAN PROVIDED DNA SAMPLE RECEIVED

- tissue analysis.....\$100
- small-animal globe analysis\$110
- large-animal globe analysis\$120
- 2nd globe, same animal.....\$20

- cytology.....\$40
- slide review\$25
- __ slides requested @\$10.....\$__

negotiated discount.....\$ _____

Total Due (add all above).....\$ _____

Ocular Drawing Form

(Form VM-3 • Rev. 2013.08)



COFLOW

Comparative Ocular Pathology
Laboratory of Wisconsin

Dr. Leandro Teixeira, Director
Department of Pathobiological Science
School of Veterinary Medicine
University of Wisconsin – Madison

Submitter (Must match data on "COFLOW Submissions" form)

Contact

Person

Animal's

Name

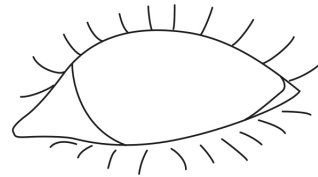
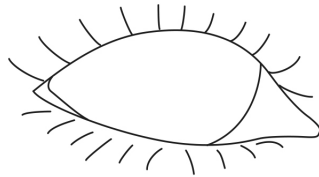
Location of Ocular Abnormalities (*below*)

Here sketch the location of ocular lesions or other abnormalities with descriptive notes alongside, pointing to the feature described. Submit with your "COFLOW Submissions" form.

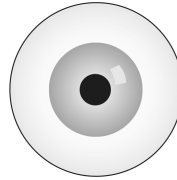
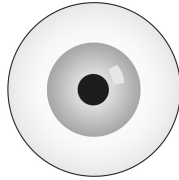
OD

Lids

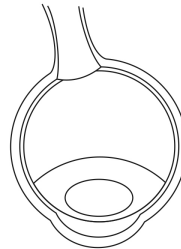
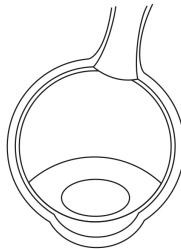
OS



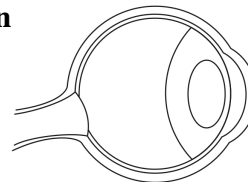
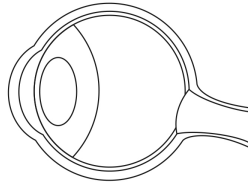
Globe



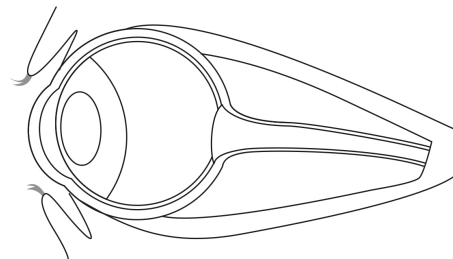
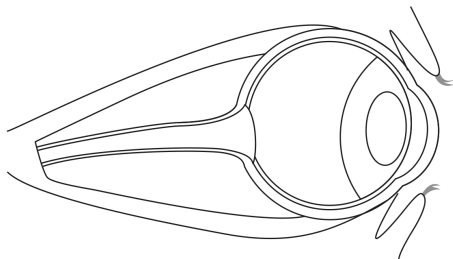
Horizontal
Section



Vertical
Section



Orbit



COPLOW Sample Submission Advice

Instructions for sample preparation after surgical removal:

1. Trim whatever tissues you are not interested in from the specimen prior to fixation, unless you are sending tissues for which you want us to assess (orbital or other) margins. We encourage you to strategically place sutures to orient the specimen or to identify important lesions. Otherwise, drawings and descriptions of the lesions are beneficial. If you suspect a mass, ulcer, or other lesion, the location can be drawn on the form. Clinical photos are also appreciated, when they accompany a written history.

Please do not incise the globe.

2. Fixation: Place in fixative ASAP. The specimen should ideally be fixed in greater than or equal to 10 times the specimen's volume worth of formalin (overnight or 1st 24 hours), then it can be placed in a smaller amount of formalin for shipping. Another possibility is to moisten a few cotton balls or gauze in formalin and place them in the container around the eye, to keep it moistened during shipping.
Do NOT use Bouin's fixative (it is explosive under some conditions).
When shipping during the winter months, isopropyl alcohol should be added to the formalin in a 1:10 ratio to prevent freezing artifact.
3. Place specimen in a liquid-tight, LABELLED container and then in at least one zip-lock plastic bag. The container should be wide-mouthed. Small specimens should be placed in a mesh cassette before being put inside the container. Please place the submission form outside the first plastic bag to protect it from leakage. Parafilm or medical tape can be wrapped around the seal of the container to further prevent leaking.
4. Place specimen and paperwork in a final outer packaging (sturdy box) with paper towels/ padding.
5. Send the sample with submission form to the MCLELLAN LAB at the University of Wisconsin. Please submit sample to the address on the submission form.