

Feline orofacial pain syndrome

Face and tongue mutilation in Burmese



Instructions for DNA collection

Form 1

Thank you very much for agreeing to participate in this project aiming to collect DNA from Burmese cats with FOPS and their affected/unaffected relatives.

In the UK only blood left over from diagnostic tests may be used for DNA extraction.

DNA collection

- Diagnosis is by excluding other causes of oral pain and can be made by any small animal clinician. If doubts exist as to the diagnosis, please contact Clare for advice on diagnosis and clinical management, or even referral ClareR@fitzpatrickreferrals.co.uk
- Remaining blood from a diagnostic test, such as a serum phenobarbitone concentration, (as much as possible, ideally 2-5mls in EDTA tube) is sent to Clare Rusbridge Fitzpatrick Referrals, ClareR@fitzpatrickreferrals.co.uk.
- Owner should read and understand the information sheet and sign the consent form (Form 2)
- Complete the Phenotype Form (Form 3) for each cat sampled. It is vital that we have the cat's correct pedigree name and Tom and Queen or registration number if available. A vet must provide authorization for the medical particulars given for the cat.

Send Forms 2 and 3 with EDTA blood sample to

Clare Rusbridge
Fitzpatrick Referrals,
Halfway Lane,
Godalming,
Surrey GU7 2QQ,
United Kingdom
ClareR@fitzpatrickreferrals.co.uk.

Thank you again for your time and effort.

Feline orofacial pain syndrome

Face and tongue mutilation in Burmese



Phenotype form – attach copy of pedigree

Owner's name _____ Cat's name _____

Cat's Pedigree Name: _____

Breed _____

Date of birth: _____ Colour: _____ Sex: _____

Tom's pedigree name _____

Queen's pedigree name _____

Affected relatives? _____

Cat is (delete as appropriate) only cat in household / lives with 1 related cat / lives with 2 or more related cats / lives with single unrelated cat / lives with 2 or more unrelated cats / lives in a multicat household with related and unrelated cats.

Clinical signs _____

Age at first episode (please state if associated teething / oral lesions / stress / other disease) _____

Age at 2nd episode (please state if associated oral lesions / stress / other disease) _____

Age at 3rd and subsequent episodes (please state if associated oral lesions / stress / other disease) _____

Triggers for FOPS (e.g. grooming, eating, drinking, smells) _____

When has the cat had dental treatment (in any) ? _____

Drugs tried and success _____

Is the disease in remission (i.e. no longer receiving drugs)? _____

Vet name/practice (practice stamp)

Date of Sampling - _____ Veterinary Surgeon's Signature _____

Feline orofacial pain syndrome

Face and tongue mutilation in Burmese



INFORMED CONSENT

I have read and understood the accompanying information leaflet explaining the DNA and RNA collection for Feline Orofacial Pain

I appreciate that in order to advance our understanding and improve treatment of veterinary diseases there is a need to determine how a particular condition relates to the genetic profile of the animal.

I understand that any genetic tests relating to my animal will not provide specific information about its condition but will contribute to the general body of knowledge about the disease in the species. I realise that no specific information regarding genetic tests on my animal will be reported back to me.

I agree to DNA or RNA being extracted from a sample taken from my animal and that this will be used entirely for research purposes. I give consent for the material to be stored and made available to *bona fide* scientists in the field of animal disease and genetics.

I understand that all information I give will be held in strict confidence and the source of the archived DNA or RNA will not be divulged

I understand that this research will not benefit my animal directly, but in the future may be of benefit to other animals.

I understand that the custodianship of the DNA and RNA resides with Fitzpatrick referrals but I retain the right to remove my animal's sample in the future if so wished.

Signed..... Date.....

Form 2

Feline orofacial pain syndrome

Face and tongue mutilation in Burmese



INFORMATION SHEET FOR OWNERS ABOUT DNA and RNA COLLECTION FOR FELINE OROFACIAL PAIN SYNDROME

We are working to find the genetic cause of Feline Orofacial Pain syndrome (FOPS), thus helping to prevent and treat this painful and debilitating condition. FOPS is a painful condition centered in the oral cavity, often triggered by mild trauma (e.g. teething) or inflammation (e.g. resorptive lesions), causing disproportionate pain and often self-mutilation. A recent genetic association study on Burmese cats affected by FOPS suggested several promising candidate genes and to continue this study we would like to perform whole genome sequencing. Our long term aim is to:

- 1) develop a simple blood test to aid diagnosis and for pre-breeding screening i.e. to prevent the disease in the first place
- 2) to establish a better treatment for this and other painful conditions in the cat

The team working on the genetics of this disease is

- **Clare Rusbridge (Europe)** –Fitzpatrick Referrals, Halfway Ln, Godalming, Surrey, GU7 2QQ, United Kingdom D +44(0)1483 423761 F +44(0)1483 527590 E-mail ClareR@fitzpatrickreferrals.co.uk
- **Leslie Lyons (North America)** –College of Veterinary Medicine, E109 Vet Med Building, 1600E. Rollins Street, University of Missouri – Columbia, Columbia, MO, 65211, USA
- **Richard Malik (Australasia)** –Centre for Veterinary Education, Level 2, Veterinary Science Conference Centre B22, The University of Sydney, NSW 2006 E-mail richard.malik@sydney.edu.au

The DNA sample being submitted will usually be derived from blood (or in the instance of RNA - tissue) leftover from the routine pathology tests being performed. Samples will only be included if the owners give their written consent. The sample will be anonymous and the owner will also retain the right to remove the sample in the future if so wished.

No information regarding tests performed on the DNA or RNA sample will be given back to the owner. This is because it will only be possible to find out which genes and environmental factors are important by identifying patterns in large numbers of affected and unaffected animals.

Further information about FOPS can be found at <http://www.veterinary-neurologist.co.uk/FOPS/> . Should you require further clarification of any issues raised please contact ClareR@fitzpatrickreferrals.co.uk