

**VIZSLA EPILEPSY RESEARCH PROJECT
INDIVIDUAL DOG QUESTIONNAIRE**

(For seizing and non-seizing dogs)

Litter ID Code: _____

Registered Name _____ Call name _____
AKC# _____ Birth date _____ Sex _____

Owner _____ Alternate contact _____
Address _____
Phone (day) () _____ () _____
Phone (eve) () _____ () _____
Fax () _____ () _____
E-mail _____

Blood or tissue sample submission date: _____

Does this dog exhibit any of the following conditions? (Attach particulars for any Yes answer)

- | | |
|---|---|
| Y - N Aggression | Y - N Heart problems (specify) _____ |
| Y - N Allergies | Y - N Hernia (where?) _____ |
| Y - N Arthritis | Y - N Reproductive disorders |
| Y - N Autoimmune disorders | Y - N Seizures/Epilepsy |
| Y - N Bleeding disorders | Y - N Skin/ Coat problems |
| Y - N Cancer/ Tumors | Y - N Structural abnormalities(hip/elbow dysplasia) |
| Y - N Deafness / Hearing impairment | Y - N Other (specify: _____) |
| Y - N Ear infections | Y - N Other (specify: _____) |
| Y - N Eye diseases / problems (specify) _____ | |

Testing done on this dog:

OFA/PennHIP	Y - N	age at test: _____	results _____ # _____
ACVO exam	Y - N	age last tested: _____	results _____ # _____
Thyroid	Y - N	age last tested: _____	result _____
Allergy	Y - N	age at last test: _____	result _____
Heart	Y - N	age at last test _____	type of test _____ result _____

Other (please attach separate sheet)

* Please attach a typed 4-5 Generation Pedigree

CONSENT FORM FOR PARTICIPATION IN THE “VIZSLA EPILEPSY RESEARCH PROJECT”

DOG’S REG. NAME: _____

The undersigned, who is the owner or co-owner (or owners or co-owners) of the above Vizsla, such Vizsla having been born on _____ and having been issued # _____ as its AKC registration number, agrees to participate in the above “Epilepsy Project” (as more fully defined below). The undersigned acknowledges that participation includes cooperation on the following:

1. Submission of copies of (a) the above Vizsla’s AKC registration certificate and 4-generation pedigree (or, alternatively, written authorization to the Epilepsy Project to obtain additional pedigree information about the above Vizsla from the AKC) and (b) completed litter information forms and lists with respect to breedings of the above Vizsla;
2. Transmission to the Epilepsy Project of blood and/or tissue samples (with tissue samples, however, only to be submitted after a dog is deceased);
3. Completion of a general health survey on the above Vizsla and/or participation in a telephone interview (lasting approximately 20 minutes); and
4. Granting permission for the Epilepsy Project to contact the above Vizsla’s veterinarian regarding its health history.

The undersigned acknowledges his, her, or their understanding that the “Vizsla Epilepsy Research Project” (sometimes herein “Epilepsy Project”) entails research to be carried out by the principal investigators at the University of Minnesota, pursuant to the research study that is more fully described on the reverse side of this Consent Form, as well as that the study has been approved by, and is being funded by The American Kennel Club Canine Health Foundation. It is agreed that this “Epilepsy Project” may be expanded and/or supplemented in the future to include other research studies relative to epilepsy and that this Consent Form constitutes the undersigned’s approval of utilization of all submitted information provided each study is approved by the Vizsla Club of America and/or the AKC Canine Health Foundation.

The undersigned further acknowledges that information provided to this “Epilepsy Project” will be made available solely to (a) the principal investigators for the study described on the reverse side of this Consent Form and their staffs (as well as, possibly, scientific investigators involved in epilepsy studies approved in the future by the AKC Canine Health Foundation and/or the Vizsla Club of America) and (b) persons associated with the Vizsla Club of America who are working on this project and who are specifically approved to receive such information by the Vizsla Club of America Board of Directors. **It is also understood that any publication for the public, resulting from this Epilepsy Project, will refer to individual dogs solely by an anonymous code.**

Signature (Date)

Name (Print)

Signature (Date)

Name (Print)

Address

Telephone number

Address

Telephone number

VIZSLA EPILEPSY RESEARCH PROJECT

University of Minnesota

Ned E. Patterson DVM ,PhD, James R. Mickelson PhD, and P. Jane Armstrong DVM, PhD

Lay Abstract

We propose to develop a genetic screening test for canine epilepsy, a serious late-onset seizure disorder affecting a large number of breeds. The onset of seizures in dogs with epilepsy is typically from one to five years of age. The late onset means that often a dog has already been bred before it is known to be affected. In some individuals, seizures are well controlled with anticonvulsant medications, but a significant number of dogs have “refractory” seizures needing high doses of medications to achieve control. The severity of seizures may be such that the owner elects to have the dog euthanized. A genetic test for epilepsy would allow breeders to screen potential breeding animals for this common, frustrating, and potentially devastating disorder prior to making breeding decisions. We propose to determine the mode of inheritance for epilepsy in 3 breeds (English Springer Spaniels Vizslas, and Beagles) and to use genetic markers to develop a screening linkage test for predicting epilepsy in these breeds. This approach to identifying the region of the canine genome containing the defective gene will ultimately lead to the prediction of candidate genes that can be characterized to define the precise defect responsible.

Science Summary

We propose to develop a microsatellite screening test for epilepsy in English Springer Spaniels, Vizslas, and Beagles. Epileptic dogs will be identified and the mode(s) of inheritance determined in each breed. Owner questionnaires will be conducted to classify the phenotype of each individual in extended three generation pedigrees to determine the mode(s) of inheritance by pedigree analysis. Genetic linkage analysis using microsatellites markers will be used to attempt to find a DNA marker linked to canine epilepsy in one or more of the breeds. A number of linked markers will hopefully be identified and a linkage map of these markers to the epilepsy locus will be constructed. The region of the canine genome containing these linked markers will be determined from somatic cell hybrid panels or the developed and emerging canine linkage map. Comparative mapping across species may allow prediction of candidate genes based from the syntenic chromosomal position in humans. Affected pedigrees and epileptic kindreds from the study breeds will be genotyped and the linkage data examined to determine if genetic heterogeneity exists within and between breeds. Dogs with predicted disease status will be followed to assess the accuracy of disease prediction based on the linkage test.

Signing Parameters in Situations Involving Co-owners: In a situation involving a Vizsla that is co-owned, a single co-owners may submit this Consent Form. In any case in which less than all co-owners’ signatures are provided, however, the signature(s) of the signing co-owner(s) shall and herewith does constitute his, her, or their representation that submission of this Consent Form is duly authorized by all co-owners.

Transmittal Information: After completion and signing, the Consent Form should be sent to the University of Minnesota Epilepsy Project, to the attention of Dr. Ned Patterson, at the following address:

Epilepsy Research Project
C/O Dr. Ned Patterson
Canine Genetics Lab
Department of Small Animal Clinical Sciences
C339 Veterinary Teaching Hospitals
1352 Boyd Ave, St. Paul MN 55108