

## Exercise Induced Collapse (EIC) in Boykin Spaniels

Exercise Induced Collapse, or EIC, is a neuromuscular condition that causes collapse of dogs when they become overly excited or exercise heavily. After intense hunting or retrieving exercise, affected dogs start to lose control of their hind limbs. EIC and the DNMT1 gene mutation are quite common in Labrador Retrievers, and have been also identified by the University of Minnesota in several other breeds, including Chesapeake Bay, Curly Coated Retrievers. Recently affected Boykin Spaniels have also been identified by the University of Minnesota.

Only a limited number of Boykins have been tested, so there is no indication yet of the prevalence of the mutation in the breed. The University of Minnesota Diagnostic Lab recently updated their web site to identify Boykin Spaniels so that EIC information is made available to Boykin Spaniel owners and veterinarians.

Comprehensive EIC information is available at the University's web site:

<http://www.vdl.umn.edu/ourservices/canineneuromuscular/home.html>

Boykin owners can have their dogs tested through their veterinarian by submitting a blood sample or cheek swab to the University of Minnesota Veterinary Diagnostic Laboratory following the EIC Submission Guidelines.

<http://www.vdl.umn.edu/guidelines/canineneuro/home.html>

The EIC Submission form must be taken to your vet for either the "blood draw option" or "cheek swab" option. Be sure to fill the form out completely.

[http://www.vdl.umn.edu/prod/groups/cvm/@pub/@cvm/@vdl/documents/asset/cvm\\_93648.pdf](http://www.vdl.umn.edu/prod/groups/cvm/@pub/@cvm/@vdl/documents/asset/cvm_93648.pdf)

Your results will be sent directly to your veterinarian. Once you have received your results from the University of MN, you can record your results through OFA. You will need to submit a copy of your test results report from University of Minnesota, plus OFA's Application for DNA Based Genetic Database form:

<http://www.offa.org/dnaappbw.pdf>

You will send in both the form and the U of MN report, along with the OFA application fee (currently \$15) to OFA.

For questions or additional EIC information contact the University of Minnesota:

email: [vd1@umn.edu](mailto:vd1@umn.edu)

ph: (612) 625-8787

toll free: (800) 605-8787

Submitted by: Terrie Tomlinson, Health Committee, Boykin Spaniel Club and Breeders Association of America, Inc. (BSCBAA)

Permission granted by BSCBAA to cross-post.