

2016-2017 PPPA Health and Research Committee Report to the Club September 2, 2017

2016-2017 Overview

It was just over a year ago (July 21, 2016) that the first Optimal Selection test indicated that the tested dog was a “Carrier” of the mutation for crd4/PRA (cord1). Subsequence tests revealed the presence of two additional mutations for prcd/PRA and DM. These three were not NEW mutations but rather those found in other breeds. There have been over 100 dogs tested for at least one of these mutations around the world. We currently have Two (2) “Carriers” of crd4/PRA, Three (3) “Carriers” of prcd/PRA and Seven (7) “Carriers” of DM identified in the USA.

Worldwide the crd4/PRA has only been found in 4 smooth coat dogs all related from one line; whereas the prcd/PRA has been found in about 25% of wire coat dogs, many of which are not related. Only one (1) prcd/PRA “Carrier” smooth coat dog has been detected and it is in the USA. All “Carriers” of DM are wire coat and here in the USA.

The Breed Survey at OFA has continued and now has information on 141 dogs. There are dogs from 5 countries currently on the Survey with 62.4% from the USA. We still need more dogs added to the Survey, especially healthy ones. The percentages of disease and other negative conditions remains very low. You can see the results or enter dog information [here](#):

We have a total of 82 dogs that have been assigned a CHIC Number indicating compliance in OFA testing Eyes, Patella, HIPS and have published the results on the OFA website. When viewing the dogs with CHIC numbers, if the CHIC logo is dull gray it means that the eye test (yearly) is not valid. **NOTE: DNA testing is not a substitute for the yearly exam by an ACVO Ophthalmologist.** You can find all of the CHIC dogs [here](#):

DNA Testing Timeline

06-23-16 – Received a call asking what color test needed to be run to help determine why a dog had a brown nose. I suggested using a new all in one panel testing from Mars Veterinary called Optimal Selection.

07-21-16 – First Optimal Selection test report identifies dog as “Carrier” cord1/PRA now renamed to crd4/PRA. Samples were then started to see which side of the breeding the mutation came from. In all, four dogs were confirmed to be “Carriers” of crd4/PRA, one of which was in Norway. All were smooth coat.

10-30-16 – Ten Optimal Selection test reports came back with 6 being “Carriers” of DM. They were all wirehaired.

11-16-16 – Two dogs that had been diagnosed with PRA and had tested “Clear” for crd4/PRA were now tested for prcd/PRA at VHL Laboratory in The Netherlands. They were found to be “Affected”.

03-06-17 – Optigen the owner of the patent of the test for prcd/PRA tested blood draws from both of “Affected” dogs and confirmed the test results. PPPs were then added to the list of breed recommended for testing for this mutation.

04/10/17 – The first smooth coat Pequeno tested as a “Carrier” of prcd/PRA test here in the USA. It is still the only Smooth coat to do so.

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DNA Summary

The testing continues for the three DNA mutations mentioned above. We are recommending that both partners be tested for these prior to breeding and only breed a "Carrier" to a "Clear/Normal" to avoid having "Affected" offspring. Both PPPA and the Finland Portuguese Podengo Club have publicly published "Owner Released" (form on website) list of tested dogs with results. Links to both of these list are located on the PPPA Website Health Page:

<http://www.portuguesePodengoPequeno.org/health.html>

If you have any questions please let me know.

Respectively Submitted,

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