



Genindexe

La génétique à votre service



EXERCISE INDUCED COLLAPSE

EIC for RETRIEVERS

(LABRADOR, CHESAPEAKE BAY & CURLY COATED)

Description

The disease is characterized by a decline of muscles, an intolerance in the effort, a paralysis of the members further to an effort. The affected animals make a cardiac arrest after an intense or prolonged effort, they get back generally 10 in 20 minutes later but were observed some mortal cases of cardiac arrest; it is thus essential to stop any effort from the appearance of these signs.

Screening of the genetic disease

A team of the University of Minnesota identified the transfer responsible for the disease. It affects a protein Dynamin 1 which, under normal circumstances, allows to maintain the communication between neurones (transmission synaptique). The mutant shape of the protein has a decreased function what has for consequence the interruption of the communication between neurones during intense efforts and thus absence of impulse at the level of muscles.

The same team estimates at approximately 30 % the percentage of carrier animals of the disease.

The genetic screening allows to identify the carrier individuals of the disease that is who can pass on it in their descent. It is always preferable not to couple two carrier individuals and to facilitate the coupling of not carrier healthy individuals. The screening test is protected by a patent. We are able to propose you the genetic test of screening via our partnership with the only holder of the European License.

This test allows to identify the not affected, carrier healthy and the affected individuals. The necessary taking for this test is oral or blood.

Expression of the results and meaning

In genetics the code to indicate the normal copy of a gene is "+" and on the contrary the code to indicate the affected copy of a gene is « - ».

So, after a EIC screening test, the status of a dog can be or :

+ / + Normal homozygote - not carrier of EIC, will never pass on the transfer

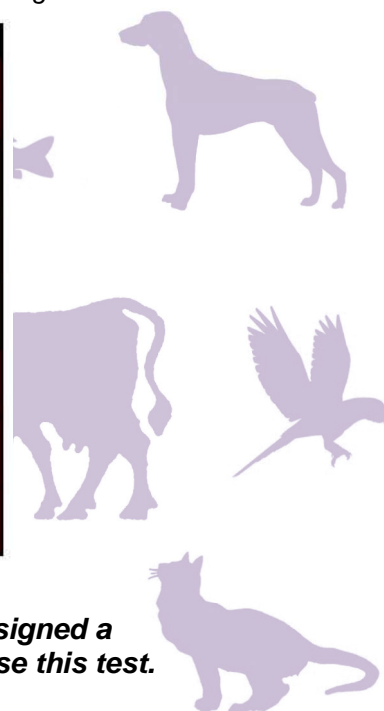
- / + Heterozygote - Carrier of EIC, passes on the transfer, statistically, in 50 % of the cases

- / - Moved homozygote - Affected by EIC, passes on the transfer in 100 % of the cases

To avoid the distribution of this pathology, we recommend to test the breeders.

To optimize the organization of your reproduction, please consult the chessboard of crossing below :

		Father						
		Not carrier		Carrier		Affected		
		+	+	+	-	-	-	
Mother	Not carrier	+	+ / + Not carrier	+ / + Not carrier	+ / + Not carrier	+ / - Carrier	+ / - Carrier	+ / - Carrier
		-	+ / + Not carrier	+ / + Not carrier	+ / + Not carrier	+ / - Carrier	+ / - Carrier	+ / - Carrier
	Carrier	+	+ / + Not carrier	+ / + Not carrier	+ / + Not carrier	+ / - Carrier	+ / - Carrier	+ / - Carrier
		-	+ / - Carrier	+ / - Carrier	+ / - Carrier	- / - Affected	- / - Affected	- / - Affected
	Affected	+	+ / - Carrier	+ / - Carrier	+ / - Carrier	- / - Affected	- / - Affected	- / - Affected
		-	+ / - Carrier	+ / - Carrier	+ / - Carrier	- / - Affected	- / - Affected	- / - Affected



For more information, do not hesitate to contact us!

This test is protected by a license. To respect this patent, GENINDEXE signed a partnership with the holder of the European license to be able to propose this test.