

Newfoundland	
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Ocular disorders known or presumed to be inherited (published)

	Diagnosis	Description and comments specific to the breed	Inheritance	Gene/ marker test	References
A	Glaucoma	Evidence of pectinate ligament anomaly (PLA)	Unknown	NO	1,3
B	Progressive Retinal Atrophy (PRA)		Unknown	NO	4
C	Entropion	Lower lateral eyelid	Unknown	NO	1,2
D	Ectropion with macroblepharon	Diamond shaped eye	Unknown	NO	1,2
E	Prolapsed gland of the nictitating membrane		Unknown	NO	1
F	Eversion of the cartilage of the nictitating membrane		Unknown	NO	1,2
G	Persistent pupillary membranes (PPM)		Unknown	NO	1

H	Persistent hyperplastic tunica vasculosa lentis/ Persistent hyperplastic primary vitreous (PHTVL/ PHPV)		Unknown	NO	1
I	Cataract	Cortical subcapsular posterior cataract ; between 2-3 y.o.	Unknown	NO	1
J	Microphthalmia	Associated with other congenital anomalies: microcornea, congenital nuclear cataract, sometimes also equatorial cortical, iridociliary cysts, retinal dysplasia	Unknown	NO	1

The ECVO's advice relating to hereditary eye disease control

Please see ECVO Manual chapter 8: VET Advice

Recommendations regarding age and frequency for eye examinations

Please see ECVO Manual chapter 7: ECVO Age and Frequency recommendations

Other ocular disorders (reported)

	Diagnosis	Source
A	Uveal cysts	ACVO genetics committee
B	Distichiasis	ACVO genetics committee

C	Retinal dysplasia -folds (mfRD)	ACVO genetics committee
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References

1. Chaudieu G. Chahory S. Affection oculaires héréditaires ou à prédisposition raciale chez le chien. 2nd ed. Ed. du Point Vétérinaire 2013;205-208.
2. Rubin LF. Inherited eye diseases in purebred dogs. Williams & Wilkins 1989;207-208.
3. Strom AR, Hassig M, Iburg TM, et al. Epidemiology of canine glaucoma presented to University of Zurich from 1995 to 2009. Part 1: Congenital and primary glaucoma (4 and 123 cases). Vet Ophthalmol. 2011 Mar;14:121-126.
4. Dekomien G and Epplen JT. Evaluation of the canine RPE65 gene in affected dogs with generalized progressive retinal atrophy. Mol Vis. 2003 Nov 11;9:601-605.