



Ocular disorders known or presumed to be inherited (published)

	Diagnosis	Description and comments specific to the breed	Inheritance	Gene/ marker test	References
A	Progressive Retinal Atrophy (PRA)	1. Rod-cone dysplasia type1 (rcd1):Night blindness by 6 weeks of age; by 1-2 years of age most affected dogs are completely blind. 2. Rod-cone dysplasia type4 (rcd4): Late onset; clinical signs from 10-12 years of age. 3. Clinical signs between 3 and 5 years of age (familial non-rcd1)	1. Autosomal recessive 2. Autosomal recessive 3. Unknown	1. PDE6B 2. c2orf71 3. NO	1. 1,2,4-24 2. 2,3,6 3. 1,2,4,25
B	Amblyopia with quadriplegia	Puppies blind and not able to stand; often nystagmus is present; they are known as “swimmers”	Unknown	NO	1,2,26,27
C	Neuronal ceroid lipofuscinosis	-Degenerative disease of the retinal visual cells leading to blindness	Autosomal recessive	NCL8	28

D	Entropion	Most cases in puppies 5 months of age or less ; usually lower lateral eyelid	Unknown	NO	1,2
E	Retinal pigment epithelial dystrophy (RPED)		Unknown	NO	1,2,29

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	Microphthalmia	French national panel
B	Distichiasis	French national panel ACVO genetics committee
C	Eversion of the cartilage of the nictitating membrane	ACVO genetics committee
D	Persistent pupillary membranes -iris to iris	ACVO genetics committee
E	Persistent hyaloid artery	ACVO genetics committee

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