



Ocular disorders known or presumed to be inherited (published)

	Diagnosis	Description and comments specific to the breed	Inheritance	Gene/ marker test	References
A	Glaucoma			NO	1,2,3,4
B	Entropion	Lower lateral eyelid	Unknown	NO	1,2,3
C	Dermoid	Sometimes very extensive on the cornea	Unknown	NO	2,3
D	Cataract	Subcapsular posterior polar cataracts, 2-5 y.o.	Unknown	NO	2,3
E	Iris hypoplasia/Sphincter dysplasia		Unknown	NO	2
F	Microphthalmia associated with multiple ocular anomalies		Unknown	NO	1,2
G	Neuronal Ceroid Lipofuscinosis	Progressive disease; dogs ataxic and blind, they die between 1.5 and 7 years of age	Unknown	NO	5,6,7,8,9,10

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	Distichiasis	ACVO genetics committee
B	Corneal dystrophy -epithelial/stromal	ACVO genetics committee
C	Iris coloboma	ACVO genetics committee
D	Persistent pupillary membranes -iris to iris	ACVO genetics committee
E	Retinal dysplasia -folds	ACVO genetics committee
F	Chronic superficial keratitis	ACVO genetics committee
G	Progressive Retinal Atrophy (PRA)	ACVO genetics committee
H	Vitreous degeneration	ACVO genetics committee

References

1. Rubin LF: Inherited Eye Diseases in Purebred Dogs, Williams & Wilkins, 1989;107-110.
2. Chaudieu G, Chahory S. Affections oculaires héréditaires ou à prédisposition raciale chez le chien. 2nd ed. Ed. Du Point Vétérinaire, 2013;322-323.
3. Hodgman SF: Abnormalities and defects in pedigree dogs I. An investigation into the existence of abnormalities in the British Isles. J Small Anim Pract 4:447, 1963.

4. Slater MR, Erb HN: Effects of risk factors and prophylactic treatment on primary glaucoma in the dog. *J Am Vet Med Assoc* 188:1028, 1986.
5. Goebel HH, Kohnecke B, Koppang N: Ultrastructural studies on the retina in human and canine neuronal ceroid-lipofuscinosis and other lysosomal disorders. In Maumenee IE and Berman ER (eds): *Genetic Eye Diseases: Retinitis Pigmentosa and Other Inherited Eye Disorders*, New York, Alan R. Liss, pp.241-253, 1982.
6. Goebel, HH, Dahme, E: Neuronal ceroid lipofuscinosis in the dalmatian dog. *Act Neuropathol* 68:114, 1985.
7. Goebel, HH, Dahme, E: Retinal ultrastructure of neuronal ceroid-lipofuscinosis in the Dalmatian dog. *Acta Neuropathol* 68:224, 1985.
8. Goebel, HH, Dahme, E: Ultrastructure of retinal pigment epithelial and neural cells in the neuronal ceroid-lipofuscinosis affected Dalmatian dog. *Retina* 6:179, 1986. Goebel, HH,
9. Dahme, E: Goebel, HH, Bilzer T, Dahme E, Malkasch F: Morphological studies in canine (Dalmatian) neuronal ceroid lipofuscinosis. *Am J Med Gen Suppl* 5:127, 1988.
10. Jolly RD, Palmer DN, Studdert VP, et al: Canine ceroid-lipofuscinoses: A review and classification. *J Small Anim Pract* 35:299, 1994.