


Rottweiler	
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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	Entropion	Lower lateral, dogs > 4 m.o.	Suspected autosomal dominant with incomplete penetrance	NO	1
B	Ectropion	Mid lower eyelid associated to medial lower entropion/macroblepharon	Polygenic	NO	1
C	Distichiasis	Corneal ulcers possible	Suspected autosomal dominant with incomplete penetrance	NO	1
D	Macroblepharon		Polygenic	NO	1
E	Eversion of the cartilage of the nictitating membrane	Close to the free margin	Unknown	NO	2

F	Kerato-conjunctivitis sicca (KCS)	Rare	Unknown	NO	2
G	Corneal dystrophy epithelial/stromal	Dogs > 6 y.o Microcrystalline, rare	Unknown	NO	1, 2
H	Persistent pupillary membranes	Iris - lens rare	Unknown	NO	1
I	Uveal cysts	Dogs > 7 y.o.	Unknown	NO	1
J	Cataract	Posterior polar cortical, dogs > 2 y.o.	Unknown	NO	1
K	Progressive Retinal Atrophy (PRA)	Ophthalmoscopic lesions in dogs > 3 y.o	Suspected autosomal recessive	NO	1, 4
L	Retinal dysplasia	Multifocal/geo-graphical lesions observed	Suspected autosomal recessive	NO	1, 3

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	Iris hypoplasia, medial or medial/lateral (3 +9 o'clock)	ACVO genetics committee
B	Persistent hyperplastic tunica vasculosa lentis/Persistent hyperplastic primary vitreous Grades 1 & 2	(personal observations, G. Chaudieu)

A retinopathy with marked discoloration and changes in tapetal reflectivity in midperipheral and peripheral fundus has been observed in Scandinavia and in USA (personal observation, K. Narfström).

References

1. Rubin LF (1989) Inherited diseases in purebred dogs. Williams & Wilkins, Baltimore, 244-247.
2. Chaudieu G, Chahory S (2013) Affections oculaires héréditaires ou à prédisposition héréditaire chez le chien. Rueil-Malmaison : Ed. du Point Vétérinaire, Wolters Kluwer France, 197-99.
3. Bedford PGC (1982) Multifocal retinal dysplasia in the Rottweiler Vet Rec 11 : 304-305.
4. Bjerkas E (1991) Progressive retinal atrophy in dogs in Norway. Norsk Veterinaertidsskrift. 103:601-610