

Bullmastiff	
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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		Unknown	NO	1
B	Ectropion	Often located in central portion of lower eyelid in combination with medial and lateral entropion = Diamond shape eyelids	Unknown	NO	1
C	Distichiasis		Unknown	NO	1
D	Macroblepharon		Unknown	NO	2
E	Persistent pupillary membranes		Unknown	NO	2
F	Retinal dysplasia - folds		Unknown	NO	1
G	Multifocal retinopathy -cmr1	Focal bullous retinopathy (CMR)	Autosomal recessive	BEST1	3

H	Progressive Retinal Atrophy (Dominant PRA)	Onset, progression and severity are modulated by light exposure.	Autosomal dominant	Rhodopsin (RHO), Dom-PRA test	4-7
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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	Glaucoma	ACVO genetics committee
B	Cataract	ACVO genetics committee
C	Optic nerve hypoplasia	ACVO genetics committee
D	Micropapilla	ACVO genetics committee

References

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6. Cideciyan AV, Jacobson SG, Aleman TS, et al. In vivo dynamics of retinal injury and repair in the rhodopsin mutant dog model of human retinitis pigmentosa, *Proc Natl Acad Sci U S A*, 2005; 102: 5233-5238
7. Miyadera K, Acland GM and Aguirre GD. Genetic and phenotypic variations of inherited retinal diseases in dogs: the power of within- and across-breed studies. *Mamm Genome*. 2012 Feb;23:40-61.