



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	3
B	Proliferative kerato-conjunctivitis	”Collie granuloma”, focal pink nodules.	Unknown	NO	1,2
C	Anomalies associated with merling	The homozygotes are almost white and show multiple ocular anomalies	Unknown	NO	2
D	Primary closed-angle glaucoma	Pectinate Ligament Abnormality	Autosomal recessive	OLFML3	16, 17
E	Lens luxation	1) Between 3 -5 y.o. 2) In puppies between 2 and 4 months of age	1)Autosomal recessive 2) familial predisposition	NO	2,3,4, 20
F	Cataract	1. anterior cortical striate opacities between 4 and 6 years of age 2. posterior subcapsular between 2,5 and 9 years of age	Unknown	NO	2,3

G	Chorioretinopathy	Occurs after 2 y.o. Predominantly males. Focal degenerative lesions (Working dog retinopathy/WDR type) possible evolution in generalized retinal degeneration around 5-7 y.o.	Unknown/Suggested X linked	NO	2,3,5,6,7,15,19
H	Retinal pigment epithelial dystrophy (RPED)	Age of onset usually before 5 years	Unknown	NO	2,3,8
I	Collie Eye Anomaly (CEA-CH)		Autosomal recessive for CH/CRD; for coloboma unknown	NHEJ1	2,3,9,10,11,18
J	Retinal dysplasia -multifocal		Unknown	NO	2,3
K	Neuronal ceroid lipofuscinosis		Autosomal recessive	CLN5	3,12,13,14

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	ACVO genetics committee
C	Persistent pupillary membranes	ACVO genetics committee
D	Vitreous degeneration	ACVO genetics committee

References

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