



Ocular disorders known or presumed to be inherited (published)

	Diagnosis	Description and comments specific to the breed	Inheritance	Gene/ marker test	References
A	Microphthalmia	Associated with multiple ocular anomalies	Unknown	NO	1
B	Entropion	Inferior lateral, spastic	Unknown	NO	2
C	Distichiasis	Early manifestations (8 w.o.)	Unknown	NO	2, 3
D	Corneal dystrophy, stromal	Subepithelial, microcrystalline, 1-4 y.o. dogs	Unknown	NO	2
E	Persistent pupillary membranes - iris to iris - iris to cornea - iris to lens	Possible secondary cataract and/or microcornea	Unknown	NO	2, 3
F	Pectinate ligament anomaly	Possibly responsible for congenital glaucoma or acute glaucoma in dogs > 5 y.o.	Unknown	NO	2

G	Cataract	Nuclear or posterior cortical, possible retinal detachment associated, dogs from 9 m.o to 6 y.o.	Suspected autosomal recessive	NO	3, 4
H	Progressive Retinal Atrophy (PRA)	Clinical signs at about 4 y.o., blindness by 8 y.o., possible consecutive cataract	Suspected autosomal recessive	NO	1,3
I	Retinal dysplasia, multifocal or total		Suspected autosomal recessive	NO	1, 3
J	Multicolobomatous syndrome	Sclera, choroid, retina, optic nerve (Merle ocular dysgenesis)	Unknown	NO	1, 4
K	Retinal detachment	Miscellaneous origins	Unknown	NO	2, 3
L	Micropapilla/ Optic nerve hypoplasia		Unknown	NO	2

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	Uveo-dermatological syndrome	ACVO genetics committee
B	Persistent hyperplastic primary vitreous/Persistent hyperplastic tunica vasculosa lentis (PHPV/PHTVL)	ACVO genetics committee

References

1. Barrie K et al (1979) Posterior lenticonus, microphthalmia, cataracts and retinal folds in Old English Sheepdogs. J Am Animal Hosp Assn 15: 715.
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, 128-130.
3. Ruin LF (1989) Inherited eye diseases in purebred dogs. Williams & Wilkins, Baltimore, 214-218.
4. Koch SA (1972) Cataracts in interrelated Old English Sheepdogs. J Amer Vet Med Assn 160 : 299-301