



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 eyelid; between 4 months and 1 year of age	Unknown	NO	1,6,7
B	Prolapsed gland of the nictitating membrane		Unknown	NO	6,7
C	Persistent pupillary membranes 1. iris to iris 2. iris-cornea	1. Standard 2. Other forms: Miniature	Unknown	NO	7
D	Cataract	1. Subcapsular posterior triangular between 6 months and 2 y.o. (Standard); 2. Posterior nuclear/posterior or cortical (Miniature)	Unknown	NO	7
E	Lens luxation	Particularly in Miniature; 18 months of age	Autosomal recessive	ADAMTS17	2,3,4,5,7

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	Atresia of lacrimal punctum	French National Panel
B	Corneal dystrophy - epithelial	ACVO genetics committee
C	Persistent hyperplastic primary vitreous/Persistent hyperplastic tunica vasculosa lentis (PHTVL/PHPV)	French National Panel
D	Vitreous degeneration -syneresis	ACVO genetics committee
E	Progressive Retinal Atrophy (PRA)	ACVO genetics committee

References

1. Johnston DE, Cox B. The incidence in purebred dogs in Australia of abnormalities that may be inherited. Austr Vet J. 1970, 46:465-474.
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3. Sargan DR, D Withers, L Pettitt, et al. Mapping the mutation causing lens luxation in several terrier breeds. J Hered. 2007;98:534-538.
4. Farias FH, GS Johnson, JF Taylor, et al. An ADAMTS17 splice donor site mutation in dogs with primary lens luxation. Invest Ophthalmol Vis Sci. 2010 Sep;51:4716-4721.

5. Gould D et al. ADAMTS17 mutation associated with primary lens luxation is widespread among breeds. *Vet Ophthalmol.* 2011;14(6):378-384.
6. Rubin LF. Inherited eye diseases in purebred dogs. *Williams & Wilkins* 1989;63-64.
7. Chaudieu G. Chahory S. Affections oculaires héréditaires ou à prédisposition raciale chez le chien. 2nd ed. *Ed. du Point Vétérinaire* 2013;251-253.