



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	7
B	Distichiasis		Unknown	NO	6
C	Cataract	Develops by 1 y.o. initial opacification of the suture lines progressing to nuclear and cortical cataract formation; complete cataracts by three years	Unknown	NO	1,2,7
D	Persistent hyperplastic primary vitreous/Persistent hyperplastic tunica vasculosa lentis PHPV/PHTVL		Unknown	NO	3,4
E	Retinal dysplasia -folds		Unknown	NO	7

F	Progressive Retinal Atrophy (PRA) Crd1	Seen in young dogs (1,5 years old) ; cone rod dystrophy 1	Autosomal recessive	PDE6B	5,6,7,8
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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	Persistent pupillary membranes - iris to iris	ACVO genetics committee

References

1. Barnett KC. Hereditary cataract in the dog. J Small Anim Pract. 1978; 19: 109-120.
2. Barnett KC. The diagnosis and differential diagnosis of cataract in the dog. J Small Anim Pract. 1985; 26: 305.
3. Leon A, Curtis R, Barnett K. Hereditary persistent hyperplastic primary vitreous in the Staffordshire Bull Terrier. J Am Anim Hosp Assoc. 1986; 22: 765-774.
4. Curtis R, Barnett KC, Leon A. Persistent hyperplastic primary vitreous in the Staffordshire bull terrier. Vet Rec. 1984; 115: 385.
5. Akhmedov NB, Baldwin VJ, Zangerl B, et al. Cloning and characterization of the canine photoreceptor specific cone-rod homeobox (CRX) gene and evaluation as a candidate for early onset photoreceptor diseases in the dog. Mol Vis. 2002; 8: 79- 84.

6. Rubin LF. Inherited eye diseases in purebred dogs. Williams & Wilkins 1989; 13.
7. Chaudieu G, Chahory S Affections oculaires héréditaires ou à prédisposition raciale chez le chien. 2nd ed, Ed. du Point Vétérinaire, pp.248-250.
8. Goldstein O, Mezey JG, Schweitzer PA, Boyko AR, Gao C, Bustamante CD et al. IQCB1 and PDE6B mutations cause similar early onset retinal degenerations in two closely related terrier dog breeds. Investigative Ophthalmology and Visual Science. 2013; 54: 7005-19.