



Ocular disorders known or presumed to be inherited (published)

	Diagnosis	Description and comments specific to the breed	Inheritance	Gene/ marker test	References
A	Ocular melanosis with and without glaucoma	Between 7 -13 y.o. ; slow progression ; proliferation of melanocytes within the uveal tract associated with an elevation in intraocular pressure.	Autosomal dominant	NO	1,2,3,4,5,6,7
B	Persistent pupillary membranes - iris to iris		Unknown	NO	2
C	Cataract	1. posterior cortical; young dogs 2. anterior cortical wedge-shaped; dogs between 6 -8 y.o.	Unknown	NO	1,2
D	Lens luxation	Between 4 -7 y.o.	Unknown	NO	1,2

E	Progressive Retinal Atrophy (PRA)	Young dogs; <1 y.o.	Unknown	NO	1,2
F	Retinal dysplasia -multifocal		Unknown	NO	1,2

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	Distichiasis	French national panel
B	Keratoconjunctivitis sicca	French national panel
C	Persistent hyaloid artery	ACVO genetics committee
D	Vitreous degeneration	ACVO genetics committee

References

1. Rubin LF: Inherited Eye Diseases in Purebred Dogs, Williams & Wilkins, 1989; 64-67.
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3. Covitz D, Barthold S, Dithers R, Riis R: "Pigmentary glaucoma" in the Cairn terrier. Trans Am Coll Vet Ophthalmol, 15: 245, 1984.

4. Petersen-Jones SM: Abnormal ocular pigment deposition associated with glaucoma in the Cairn terrier. *J Small Anim Pract* 32: 19, 1991.
5. Petersen-Jones SM, et al: Ocular melanosis in the Cairn Terrier: clinical description and investigation of mode of inheritance. *Vet Ophthalmol* 10:63-69, 2007.
6. Petersen-Jones SM et al: Ocular melanosis in the Cairn Terrier: histopathological description of the condition, and immunohistological and ultrastructural characterization of the characteristic pigment-laden cells. *Vet Ophthalmol* 11:260-268, 2007.
7. Van de Sandt RR, Boeve MH, Stades FC, Kik MJ: *Veterinary Ophthalmology* 6: 273-278, 2003.