



Ocular disorders known or presumed to be inherited (published)

	Diagnosis	Description and comments specific to the breed	Inheritance	Gene/ marker test	References
A	Entropion	1. Lower eyelid lateral in young dogs (between 6 and 10 months of age) 2. Upper eyelid related to excessive skin folds on the head (usually in adult males)	Unknown	NO	1,2
B	Ectropion	Central lower eyelid associated with the entropion of the upper eyelid	Unknown	NO	1,2,3
C	Persistent pupillary membranes - all forms		Unknown	NO	1,2
D	Glaucoma	Primary angle closed glaucoma associated with pectinate ligament anomaly; mean age 6.2 y.o.; reported incidence of 4.7% in the breed	Unknown	NO	1,2,4,6

E	Cataract	Congenital cataract; from incipient nuclear or capsular lesions to advanced cortical opacity; nucleus most affected with variable involvement of the lens cortex. Concurrent ocular anomalies: wandering nystagmus, entropion, microphthalmia, persistent pupillary membranes and multifocal retinal folds	Unknown	NO	2,5
F	Progressive Retinal Atrophy (PRA)	Nyctalopia 2-3 y.o	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	Microphthalmia	French national panel
B	Distichiasis	French national panel
C	Corneal dystrophy -endothelial	ACVO genetics committee
D	Exposure keratopathy syndrome/Pigmentary keratitis	ACVO genetics committee
E	Lens luxation	French national panel

References

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3. Priester WA. Congenital defects in cattle, horses, cats and dogs. J Am Vet Med Assoc 1972; 160:1504-1511.
4. Corcaran KA, Koch SA, et al: Primary glaucoma in the Chow chow. Prog Vet Comp Ophthal 4:193, 1994.
5. Collins BK, et al: Familial cataracts and concurrent ocular anomalies in Chow chows. J Am Vet Med Assoc 200:1485, 1992.
6. Gelatt KN, Mackay FO: Prevalence of breed-related glaucomas in pure-bred dogs in North America. Vet Ophthal 2:97, 2004