


Cane Corso Italiano	
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Ocular disorders known or presumed to be inherited (published)

	Diagnosis	Description and comments specific to the breed	Inheritance	Gene/ marker test	References
A	Macroblepharon	Oversized lid fissure	Unknown, most likely polygenic	NO	1,2,3,6
B	Entropion	Lateral canthus	Unknown, most likely polygenic	NO	1,2,3,6
C	Ectropion	Associated with macroblepharon	Unknown, most likely polygenic	NO	1,2,3,6
D	Prolapsed gland of the nictitating membrane		Unknown	NO	1,2,3,6
E	Distichiasis	Sporadic	Unknown	NO	1,2,3,5,6
F	Uveal cysts		Unknown	NO	2,3,6
G	Cataract	Posterior cortical	Unknown	NO	2,3,6
H	Retinal dysplasia -focal/multifocal		Unknown	NO	2,3,5,6
I	Progressive Retinal Atrophy (PRA)	Early onset retinal degeneration	Unknown	NO	1,6

J	Canine Multi-focal Retinopathy	(CMR) type 1	Autosomal recessive pattern	BEST1	4
K	Eversion of the cartilage of the nictitating membrane		Unknown	NO	2,3,5,6
L	Dermoid		Unknown	NO	6
M	KCS		Unknown	NO	6
N	Corneal dystrophy		Unknown	NO	6
O	Persistent pupillary membranes - iris to iris		Unknown	NO	5
P	Progressive Retinal Atrophy (PRA) and Dentinogenesis Imperfecta	Early onset blindness (complete by 1 year of age)	Presumed autosomal recessive	NO	7
Q	Neuronal Ceroid Lipofuscinosis (CLN1)	Progressive blindness		PPT1	8

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	Progressive Retinal Atrophy (PRA) and Dentinogenesis Imperfecta (see also "P")	Crasta M, personal communication

References

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4. Guziewicz KE, Zangerl B, Lindauer SJ, Mullins RF, Sandmeyer LS, Grahn BH, Stone EM, Acland GM, Aguirre GD. Bestrophin gene mutations cause canine multifocal retinopathy: a novel animal model for best disease. Invest Ophthalmol Vis Sci (2007) 48(5):1959-67.
5. Chaudieu G. Chahory S. Affections oculaires héréditaires ou à prédisposition raciale chez le chien. Ed du Point Vétérinaire , 2nd ed. 2013, pp. 179-180.
6. Guandalini A, Di Girolamo N, Santillo N, Andreani V, Corvi R, Bandini M, Peruccio C. Epidemiology of ocular disorders presumed to be inherited in three large Italian dog breeds in Italy. Vet Ophthalmol 20 (5):420-426, 2017
7. Guandalini A, Corvi A, Andreani V, Bandini M, Settini L, D'Amato M, Piomponi A, Milano A, Pearce-Kelling S & Aguirre GD. Progressive Retinal Atrophy and Dentinogenesis Imperfecta in Cane Corso dogs. A preliminary report. ECVO Annual Meeting, Estoril (Portugal), 18-21/05/2017
8. Kolicheski A, Barnes Heller HL, Arnold S, Schnabel RD, Taylor JF, Knox CA et al. Homozygous PPT1 Splice Donor Mutation in a Cane Corso Dog with Neuronal Ceroid Lipofuscinosis. J Vet Intern Med 31:149-157, 2017.