


Whippet	
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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	Chronic superficial keratitis	Ventrolaterally. Progressive corneal vascularization and pigmentation	Unknown	NO	2
B	Corneal dystrophy, -stromal	Microcrystalline, anterior or middle stroma, 3- 5 y.o. dogs	Unknown	NO	1
C	Iris atrophy	Dogs > 8 y.o.	Unknown	NO	2
D	Cataract	1. equatorial : Dogs > 3y.o., slowly progressive 2. Posterior subcapsular. Dogs > 5 y.o.	Familial predisposition	NO	1
F	Vitreous degeneration	Dogs around 8 y.o., possible glaucoma, secondary lens luxation and retinal detachment	Unknown	NO	1, 2

G	Progressive Retinal Atrophy (PRA)	Two forms: 1)Night blindness around 5 yo, peripapillar hyperreflexion at the beginning 2)Vision deficits in dim light at a young age; multifocal retinal bullae from 6 months of age; then retinal thinning	1)Suspected autosomal recessive 2)Autosomal recessive	NO NO	1,2,4
H	Multifocal retinopathy	Males affected, 1-5 y.o., multifocal tapetal hyperreflexion, bullous retinal detachment observed.	X linked suspected	NO	2, 3
I	Collie Eye Anomaly (CEA, long haired Whippet)	Choroidal hypoplasia	Autosomal recessive, polygenetic	NHEJ1	5,6

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	Collie Eye Anomaly (CEA)	ACVO Genetics Committee
B	Persistent pupillary membranes – iris to iris	ACVO Genetics Committee

References

1. Rubin LF (1989) Inherited eye diseases in purebred dogs. Williams & Wilkins, Baltimore, 297-299.
2. Chaudieu G, Chahory S (2013) Affections oculaires héréditaires ou à prédisposition héréditaire chez le chien. Rueil-Malmaison : Ed. du Point Vétérinaire, Wolters Kluwer France, 484-85.
3. Clerc B et al (1999) Familial retinal degeneration in the Whippet dog. A clinical, pathological and genetic study. ECVO/ESVO/ISVO/GEMO Combined Meeting, Lyon, 56.
4. Tavares Somma A, Duque Moreno JC, Teruo Sato M, Dreher Rodrigues B et al. Characterization of a novel form of progressive retinal atrophy in Whippet dogs: a clinical, electroretinographic, and breeding study. Vet Ophthalmol. 10(5):450-459, 2017
5. Parker HG, Kukekova AV, Akey DT, et al. Breed relationships facilitate fine-mapping studies: a 7.8-kb deletion cosegregates with Collie eye anomaly across multiple dog breeds. Genome research. 2007;17:1562-1571. Epub 2007/10/06.
6. Lowe JK, Kukekova AV, Kirkness EF, et al. Linkage mapping of the primary disease locus for Collie eye anomaly. Genomics. 2003;82:86-95