



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. Inferior, nasal 2. Lateral, inferior, spastic	Polygenic suspected Polygenic suspected	NO	1,2
B	Distichiasis/ Ectopic cilia	Corneal ulcers possible	Unknown	NO	1, 2
C	Prolapsed gland of the nictitating membrane	Often bilateral, 2-6 m.o. dogs	Unknown	NO	1, 3
D	Dermoid	Palpebral, corneal	Unknown	NO	1
F	Keratoconjunctivitis sicca	Often bilateral, dogs > 8 y.o.,	Unknown	NO	1
G	Corneal dystrophy, stromal	Microcrystalline, subepithelial, 4-6 y.o. dogs	Unknown	NO	1
H	Persistent pupillary membrane, - iris to iris - iris to cornea		Unknown	NO	1

I	Iridocorneal angle abnormality	Pectinate ligament anomaly and/or narrow iridoconeal angle width	Unknown	NO	1
J	Cataract	Posterior, cortical, 6m.o-3y.o dogs, rapidly evolutive; association with lenticonus possible	Presumed autosomal recessive	HSF4	1, 2, 4, 5
K	Lens luxation	Adult dogs	Unknown	NO	1
L	Retinal dysplasia, (multi)focal	Geographical rare	Unknown	NO	1

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) 5-8 y.o. dogs	Personal observations (G. Chaudieu)
B	Granulomatous meningoencephalitis 1,5-3 y.o. dogs	Personal observations (G. Chaudieu)
C	Lacrimal punctum atresia	ACVO genetics committee

References

1. Chaudieu G, Chahory S (2013) Affections oculaires héréditaires ou à prédisposition héréditaire chez le chien. Rueil-Malmaison : Ed. du Point Vétérinaire, Wolters Kluwer France, 234-235.
2. Rubin LF (1989) Inherited diseases in purebred dogs. Williams & Wilkins, Baltimore, 293-294.
3. Mazzucchelli S, Vaillant D et al (2012) Retrospective study of 155 cases of prolapse of the nictitating membrane gland in dogs. Vet. 170 (17): 443.
4. Chaudieu G, Thomas A (2011) Primary cataract in the French Bulldog: a preliminary report. ECVO annual meeting, Berlin.
5. Mellersh C, Mac Laughlin B et al (2009) Mutation in HSF4 is associated with hereditary cataract in the Australian Shepherd. Vet Ophthalmol 12, 6: 372-378.*
* Note: in the introduction, it is written: “Recently, the mutation has been identified in French bulldogs with a clinically similar cataract (unpublished data)”