



Ocular disorders known or presumed to be inherited (published)

	Diagnosis	Description and comments specific to the breed	Inheritance	Gene/ marker test	References
A	Macroblepharon		Presumed polygenic	NO	1
B	Entropion	Inferior lateral	Unknown	NO	1
C	Trichiasis	Medial	Unknown	NO	2
D	Corneal dystrophy - stromal	Central, subepithelial or midstromal, 2 to 5 y.o. dogs	Unknown	NO	1
E	Persistent Pupillary Membranes - iris to iris		Unknown	NO	1, 3
F	Iris hypoplasia	Frequent in some lines in the breed	Unknown	NO	1
G	Glaucoma	Pectinate Ligament Anomaly (PLA); Possible acute glaucoma in dogs < 5 y.o.	Presumed polygenic. Described as autosomal dominant with incomplete penetrance under [4]	NO	1, 4, 8

H	Cataract	<p>1. Early cortical : First signs(equatorial) in 8 w.o. puppies, progression between 5 and 18 m.</p> <p>2. Posterior polar cortical : Along sutures lines, 2 to 4 y.o. dogs</p> <p>3. Anterior cortical/subcortical</p> <p>4. Fibrillar nuclear, dogs > 5 y.o.</p>	<p>1. autosomal recessive</p> <p>2.-</p> <p>4.Unknown</p>	NO	2,7
I	Progressive Retinal Atrophy (PRA)	5 -7 y.o. dogs	Suspected autosomal recessive	NO	5
J	Retinal dysplasia - multifocal		Suspected autosomal recessive	NO	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	Vitreous degeneration	ACVO Genetics Committee
B	Distichiasis	ACVO Genetics Committee

References

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2. Stades FC et al (1999) Medial canthus trichiasis in seven related Welsh Springer Spaniels. Proc Meetins ECVO/ESVO/ISVO STADES /GEMO, Lyon, 20.
3. Rubin LF (1989) Inherited eye diseases in purebred dogs. Williams & Wilkins, Baltimore, 291-293.
4. Cottrell BD, Barnett KC (1988) Primary glaucoma in the Welsh Springer Spaniel. J Small Anim Pract 29 : 185-189.
5. Narfström K, Ekesten B (1999) Diseases of the canine ocular fundus. In : Veterinary Ophthalmology. Third Edition (KN Gelatt Edr) Lippincott Williams & Wilkins, 869-933.
6. Barnett KC et al (2002) Fundus.In : Canine ophthalmology. An atlas and text, Saunders, Philadelphia, 155-180.
7. Barnett KC. Hereditary cataract in the Welsh Springer spaniel. J Small Anim Pract. 1980 Nov;21:621-625
8. Oliver JA, Ekiri A, Mellersh. Prevalence and Progression of Pectinate Ligament Dysplasia in the Welsh Springer Spaniel. J Sm Anim Pract. 2016;57: 416-421.