



**Ocular disorders known or presumed to be inherited (published)**

	<b>Diagnosis</b>	<b>Description and comments specific to the breed</b>	<b>Inheritance</b>	<b>Gene/ marker test</b>	<b>References</b>
<b>A</b>	Entropion/Macroblepharon	Medial lower entropion associated with macroblepharon	Polygenic suspected	NO	1, 2
<b>B</b>	Distichiasis	Corneal ulcers possible	Autosomal dominant with incomplete penetrance suspected	NO	1,2
<b>C</b>	Trichiasis	Nasal fold and caruncula	Unknown	NO	1,3
<b>D</b>	Exposure keratopathy	Lagophtalmia, corneal ulcers possible	Polygenic suspected	NO	1,3
<b>E</b>	Kerato-conjunctivitis sicca	Mostly females between 3 and 5 y.o.	Unknown	NO	1, 4
<b>F</b>	Pigmentary keratopathy	Associated with congenital uveal pathology – iris hypoplasia and PPM	Unknown	NO	6

<b>G</b>	Corneal dystrophy, epithelial	Dogs > 6 y.o.	Unknown	NO	
<b>H</b>	Glaucoma	Rare	Unknown	NO	3, 5
<b>I</b>	Cataract	Posterior cortical, nuclear, 1 to 4 y.o. dogs	Unknown	NO	1,3
<b>J</b>	Persistent hyperplastic tunica vasculosa lentis/ Persistent hyperplastic primary vitreous (PHTVL/PHPV)	Grades 5, 6 seen	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)**

	<b>Diagnosis</b>	<b>Source</b>
<b>A</b>	Retinal dysplasia (folds)	ACVO genetics committee
<b>B</b>	Persistent pupillary membranes	ACVO genetics committee
<b>C</b>	Vitreous degeneration (Syneresis)	ACVO genetics committee
<b>E</b>	Persistent hyaloid artery	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.
2. Rubin LF (1989) Inherited eye diseases in the purebred dogs. Williams & Wilkins, Baltimore, 241-242.
3. Genetics Committee of the American College of Veterinary Ophthalmologists (2014) Ocular disorders presumed to be inherited in purebred dogs.
4. Kaswan RL, Salisbury MA (1990) A new perspective on Canine Keratoconjunctivitis sicca. Treatment with ophthalmic cyclosporine. Vet Clin North Amer Small Anim Pract 20 : 583-613.
5. Gelatt KN, Mackay FO (2004) Prevalence of breed-related glaucomas in purebred dogs in North America. Veterinary Ophthalmology 7 (2):97-111.
6. Labelle AL, Dresser CB, Hamor RE et al (2013) Characteristics of, prevalence of, and risk factors for corneal pigmentation (pigmentary keratopathy) in Pugs. J Am Vet Med Assoc, 243: 667-674.