

<b>Great Dane (Deutsche Dogge)</b>	
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**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>	Microphthalmia with multiple ocular defects associated with partial albinism		Presumed autosomal dominant	NO	1
<b>B</b>	Glaucoma		Unknown	NO	2,3,4
<b>C</b>	Cataract	Posterior subcapsular, 2 years of age	Unknown	NO	5
<b>D</b>	Prolapsed gland of the nictitating membrane/ Eversion of the cartilage of the nictitating membrane	2-4 months old dogs	Unknown	NO	6,8
<b>E</b>	Persistent hyperplastic primary vitreous/persistent hyperplastic tunica vasculosa lentis (PHPV/PHTVL)		Unknown	NO	7

<b>F</b>	Entropion	lower lateral, 2-12 months old dogs	Unknown	NO	8
<b>G</b>	Ectropion/ macroblepharon	Most often associated to lower medial entropion	Unknown	NO	8
<b>H</b>	Congenital stationary night blindness		Unknown	NO	8
<b>I</b>	Ciliary body cysts	Associated with secondary glaucoma	Unknown	NO	9

### **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>	Distichiasis	ACVO genetics committee
<b>B</b>	Persistent pupillary membranes – iris to iris	ACVO genetics committee
<b>C</b>	Iris cysts	ACVO genetics committee
<b>D</b>	Progressive Retinal Atrophy (PRA)	ACVO genetics committee

## References

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3. Spiess BM, Bolliger JO, Guscetti F, et al: Multiple ciliary body cysts and secondary glaucoma in the Great Dane: a report of nine cases. *Vet Ophthalmol* 1: 41-45, 1998
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5. Rubin LF: *Inherited Eye Diseases in Purebred Dogs*, 1989: 161-164
6. Mazzucchelli S, Vaillant MD, Weverberg F, et al. Retrospective study of 155 cases of prolapse of the nictitating membrane gland in dogs. *Vet Rec.* 2012;170:443.
7. Spahn KJ, Wagner LS, Dees DD, Reilly CM. Persistent hyperplastic primary vitreous and persistent tunica vasculosa lentis in three Great Dane littermates. 46th ACVO Annual meeting, Coeur d'Alene (ID), October 7-10, 2015.
8. Chaudieu, G & Chahory S. (2013) *Affections oculaires hereditaires ou a predisposition raciale chez le chien*. Ed. du Point Veterinaire 2nd ed, 183-185
9. Spiess BM, Bolliger JO, Guscetti F, Haessig M et al. Multiple ciliary body cysts and secondary glaucoma in the Great Dane: a report of nine cases. *Vet Ophthalmol* 1 (1): 41-45 , 1998