Belgian Shepherd Dog -Groenendael



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 (CSK)		Unknown	NO	1
В	Lympho- plasmocytic inflammation of the external surface of the nictitans membrane (Plasmoma)	-seen alone or together with A.	Unknown	NO	1
С	Cataract	 posterior suture line opacities (1 family of dogs) nuclear fibrillar opacities, dogs >7 y.o. significance not known 	Unknown	NO	1

D	Retinal dysplasia- multifocal	Congenital multiple folds, linear or Y shaped, generally in tapetal area, many disappear when animal matures	Presumed autosomal recessive	NO	1
E	Progressive Retinal Atrophy (PRA)	 -Degenerative disease of the retinal visual cells leading to blindness - Limited breeding studies in the Groenendael 	Presumed autosomal recessive	NO	1,3
F	Retinopathy in pups (1 closely inbred family)	 -Pups blind at 8 weeks -disturbed vision in bright and dim light -multifocal round oval areas of retinal thickening in tapetal area -inner photoreceptors and retinal pigment epithelial cells affected 	Presumed autosomal recessive	NO	1,2
G	Achiasmic optic nerves with nystagmus	 described in one small family congenital nystagmus is frequently noted no chiasmal decussation of the retinal ganglion cell axons 	Autosomal recessive	NO	4

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

	Diagnosis	Source		
Α	Corneal dystrophy	ACVO genetics committee		
В	Persistent pupillary membranes	ACVO genetics committee		
С	Micropapilla	ACVO genetics committee		

Other ocular disorders (reported)

Note: The Groenendael, Laekenois, Malinois and Tervuren are considered closely interrelated and not genetically indistinct.

References

- 1. Rubin LF, Inherited eye diseases in purebred dogs. Baltimore, Williams & Wilkins, 1989, 35-37
- 2. Wolf ED, Samuelson D, Retinopathy in a family of Belgian Shepherds, Proc.Am.Col.Vet. Ophthalmologists,12: Supplement,1981.
- 3. Miller TR, et al: Generalized retinopathy in the Belgian sheepdog. Invest Ophthalmol Vis Sci 27(Suppl): 310, 1986.
- 4. Hogan D, Williams RW: Analysis of the retinas and optic nerves of achiasmic Belgian sheepdog. J Comp Neurol 52(3):367-380, 1995