



Ocular disorders known or presumed to be inherited (published)

	Diagnosis	Description and comments specific to the breed	Inheritance	Gene/ marker test	References
A	Distichiasis		Unknown	NO	1
B	Corneal dystrophy, 1. epithelial 2. endothelial	1. Dogs at least 8 y.o. 2. Rare, older dogs	Unknown	NO	1
C	Progressive Retinal Atrophy (rod-cone dysplasia)	Late onset, incipient secondary cataracts	Autosomal recessive	Rcd4/C2orf71	5
D	Persistent pupillary membranes	All forms described	Unknown	NO	1
E	Cataract	Posterior cortical, dogs > 3 y.o.	Unknown	NO	1
F	Retinal pigment epithelial dystrophy	Linked to vitamine E deficiency	Unknown	NO	1
G	Progressive Retinal Atrophy (PRA) (rcd4)	Late onset, slow evolution (dogs > 4 y.o.)	Autosomal recessive	C2orf71	5

G	Ceroid lipofuscinosis	Young adult dogs (1-2 y.o.), brown focal lesions of the fundus, general nervous signs	Autosomal recessive	NO	2, 4
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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
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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, 136-37.
2. Wrigstad A et coll (1995) Neuronal ceroid lipofuscinosis in the Polish Owzareck Nizinny (PON) dog. A retinal study. Doc Ophthalmol 91 : 33-47
3. Brahm R, Matiasek K (2004) Neuronal ceroid lipofuscinosis in two closely related Tibetan terriers and one Polish Owzareck Nizinny (PON) dog: clinical, ophthalmologic and bioptical findings. Abstract 28. Vet Ophthalmology: 430.
4. Narström K Wrigstad A et al (2007) Neuronal ceroid lipofuscinosis : clinical and morphologic findings in nine affected Polish Owzareck Nizinny (PON) dogs. Vet Ophthalmology 10: 11-120.

5. Swenson M, Olsen L et al (2016) Progressive retinal atrophy in the Polski Owczarek Nizinny dog: A clinical and genetic study. *Vet Ophthalmol*, 19 (3): 195-205.