



Ocular disorders

	Diagnosis	Description and comments specific to the breeds	Inheritance	Gene/marker test	References
A	Glaucoma	Open angle	Presumed autosomal recessive	None	1,2
B	Rod dysplasia (<i>rd</i>)	Rod photoreceptors fail to develop normally. Vision impairment in dim light by 6 months and total blindness at 3-5 years. Seems to have been bred out of the population	Presumed autosomal recessive	None	3,4
C	Early retinal degeneration (<i>erd</i>)	Night blind at 6 weeks and blind by 1 year of age	Autosomal recessive	YES	5,6
D	Late onset progressive retinal atrophy (<i>prcd-PRA</i>)	Late onset of clinical signs	Autosomal recessive	YES	7

The ECVO's advice relating to hereditary eye disease control

A	Glaucoma	NO BREEDING from the affected animal
B	Rod dysplasia (<i>rd</i>)	NO BREEDING from the affected animal, its parents or offspring
C	Early retinal degeneration (<i>erd</i>)	NO BREEDING from the affected animal, its parents or offspring
D	Late onset progressive retinal atrophy (<i>prcd-PRA</i>)	NO BREEDING from the affected animal, its parents or offspring

Recommendations regarding age and frequency for eye examinations

As for all other breeds (see part 7)

References

1. Ekesten B, Bjerkås E, Kongsengen K, Narfström K.(1997) Primary Glaucoma in the Norwegian Elkhound. *Vet Comp Ophthalmol*; 7: 14-18.
2. Oshima Y, Bjerkås E, Peiffer RL. (2004) Ocular histopathological observations in Norwegian Elkhounds with primary open angle, closed cleft glaucoma. *Vet Ophthalmol* 7; 185-188.
3. Aguirre GD, Rubin LF: Progressive retinal atrophy (rod dysplasia) in the Norwegian elkhound. *J Am Vet Med Assoc* 158:208, 1970.
4. Aguirre GD, Rubin LF: The early diagnosis of rod dysplasia in the Norwegian elkhound. *J Am Vet Med Assoc* 159:429, 1971.
5. Acland GM, Aguirre GD: Retinal degenerations in the dog: IV. Early retinal degeneration (*erd*) in Norwegian elkhounds. *Exp Eye Res* 44:491, 1987.
6. Kukekova AV, Aguirre GD, Acland GM. Cloning and characterization of canine SHARP1 and its evaluation as a positional candidate for canine early retinal degeneration (*erd*). *Gene*.2003 Jul 17;312:335-343.
7. <http://www.thekennelclub.org.uk/item/2527> (2010-12-29)