Lapponian Herder	

Ocular disorders known or presumed to be inherited (published)

	Diagnosis	Description and comments specific to the breed	Inheritance	Gene/ marker test	References
A	Canine multifocal retinopathy (CMR3)	Multifocal retinopathy at approximately 1 year of age	Autosomal recessive	BEST1	1
B	Progressive Retinal Atrophy (PRA)		Autosomal recessive	prcd	2

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
A	Cataract (punctate, posterior polar, anterior suture lines)	Swedish National panel; Finnish Kennel Club database
B	Retinal Dysplasia (focal and geographic)	Swedish National panel; Finnish Kennel Club database
C	Retinopathy	Swedish National panel

References

1. Zangerl B, Wickstrom K, Slavik J, Lindauer SJ et al. Assessment of canine BEST1 variations identifies new mutations and establishes an independent bestrophinopathy model (cmr3). Mol Vis. 16:2791-2804, 2010

2. Zangerl B, Goldstein O, Philp AR, et al. Identical mutation in a novel retinal gene causes progressive rod-cone degeneration in dogs and retinitis pigmentosa in humans. Genomics. 2006;88:551-563.