

<b>Bearded Collie</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>	Corneal dystrophy -epithelial/stromal	White to gray corneal, non-inflammatory, opacitiy, usually bilateral, > 1 y.o.	Unknown	NO	1,2
<b>B</b>	Persistent pupillary membranes		Unknown	NO	1,2
<b>C</b>	Cataract		Unknown	NO	1,2
<b>D</b>	Progressive Retinal Atrophy (PRA)		Unknown	NO	1,2
<b>E</b>	Collie Eye Anomaly (CEA)		Autosomal recessive for CH/CRD; for coloboma unknown	NHEJ1	1,2,3,4

**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

**Other ocular disorders (reported)**

	<b>Diagnosis</b>	<b>Source</b>
<b>A</b>	Retinal dysplasia - folds	ACVO genetics committee
<b>B</b>	Distichiasis	ACVO genetics committee

**References**

1. Rubin LF: Inherited Eye Diseases in Purebred Dogs, Williams & Wilkins, 1989; 317-321.
2. Chaudieu G, Chahory S Affections oculaires hereditaires ou a predisposition raciale chez le chien. 2nd ed, Ed. du Point Veterinaire, pp.144-145.
3. Lowe JK, Kukekova AV, Kirkness EF, et al. Linkage mapping of the primary disease locus for collie eye anomaly. Genomics. 2003; 82: 86-95.
4. Parker HG, Kukekova AV, Akey DT, et al. Breed relationships facilitate fine-mapping studies: a 7.8-kb deletion cosegregates with Collie eye anomaly across multiple dog breeds. Genome Res. 2007; 17: 1562-1571.