

Disease	Estimated Incidence Rate (a)	Inheritance	Clinical Test	Genetic Test
Collie Eye Anomaly (CEA)	<2.5%	Recessive	Ophthalmological exam (b)	Optigen, Paw Print Genetics, Animal Genetics
Hip Dysplasia	<11% (c)	Complex	Radiographic: OFA, Cornell	None
Epilepsy	<5% (d)	Complex	Physical and neurological exam	None
Early Onset Adult Deafness (EOD)	Unknown	Recessive (e)	BAER test	None
Exercise-Induced Border Collie Collapse (EIBCC)	Unknown	Complex	None, diagnosis by exclusion	None
Imerslund-Gräsbeck Syndrome (IGS)	Rare (<0.5%) (f)	Recessive	Physical exam and bloodwork	UCDavis, Animal Genetics, Paw Print Genetics
Trapped Neutrophil Syndrome (TNS)	Rare (<0.5%) (f)	Recessive	Bone marrow biopsy	Optigen, Animal Genetics, Paw Print Genetics
Neuronal Ceroid Lipofuscinosis (NCL)	Rare (<0.5%) (f)	Recessive	Physical and MRI exams	Optigen, Paw Print Genetics, Animal Genetics
Multi-Drug Resistance Gene (MDR1)	Rare (<0.5%) (f)	Recessive	None	Vet Clinical Pharmacology Lab at WA State U, Paw Print Genetics, Animal Genetics

a) Estimated incidence rates are for affected dogs, carrier rates will be higher

b) Exams are recommended before 12 weeks of age

c) Hip dysplasia rates are from OFA data for all Border Collies (any register) whose radiographs were submitted