


<b>Saint-Bernard</b>	
----------------------	---

**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>	Microphthalmia, multiple ocular anomalies	Congenital glaucoma may be present	Unknown	NO	1, 2
<b>B</b>	Entropion	Lower or lateral canthus, 5 m.o. dogs. Combined with ectropion and macroblepharon	Unknown	NO	2
<b>C</b>	Ectropion/macrobalepharon	Inferior median associated to inferior medial entropion with macroblepharon	Polygenic	NO	2,3
<b>D</b>	Distichiasis		Autosomal dominant with incomplete penetrance	NO	3
<b>E</b>	Prolapsed gland of the nictitating membrane	Between 8 w. and 6 m. of age	Unknown	NO	3

<b>F</b>	Eversion of the cartilage of the nictitating membrane		Polygenic suspected	NO	3
<b>G</b>	Dermoid	Corneal lateral, inferior palpebral associated with palpebral agenesis	Autosomal recessive	NO	4
<b>H</b>	Persistent pupillary membranes		Unknown	NO	3
<b>I</b>	Cataract	Between 6 m. and 18 m. of age, posterior cortical, often progressive	Unknown	NO	2, 3
<b>J</b>	Progressive Retinal Atrophy (PRA)	rare	Autosomal recessive suspected	NO	2, 5

**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>
--	------------------	---------------

### References

1. Martin, CL Lerpold HW (1979) Aphakia and multiple ocular defects in Saint Bernard puppies. *Vet Med Small Anim Clinician* 69 : 448-453.
2. Rubin LF (1989) *Inherited diseases in purebred dogs*. Williams & Wilkins, Baltimore, 247-249.
3. Chaudieu G, Chahory S (2013) *Affections oculaires héréditaires ou à prédisposition héréditaire chez le chien*. Rueil-Malmaison : Ed. du Point Vétérinaire, Wolters Kluwer France 199-201.
4. Kittel H (1931) Über Dermoïde der Kornea und Spaltbildungen der Lider am Auge von Bernhardiner Hunden. *Deutsche Tierärztl Wochenshr* 52 :793-797.
5. Piester WA (1974) Canine progressive retinal atrophy. Occurrence by age, breed and sex. *Amer J Vet Res* 35 : 571-574.