



Ocular disorders known or presumed to be inherited (published)

| | Diagnosis | Description and comments specific to the breed | Inheritance | Gene/ marker test | References |
|----------|---|---|--------------------|--------------------------|------------------------|
| A | Distichiasis | Mostly lower eyelid | Unknown | NO | 2 |
| B | Entropion | Usually medial lower eyelid; rarely lower lateral eyelid | Unknown | NO | 2 |
| C | Ectropion with macroblepharon | Usually central lower eyelid | Unknown | NO | 1,2 |
| D | Prolapsed gland of the nictitating membrane | | Unknown | NO | 2 |
| E | Corneal dystrophy 1. epithelial 2. endothelial | 1. Recurrent epithelial erosions 2. Initially lateral corneal edema then bullous keratopathy | Unknown | NO | 1:1,2,3,4,5,6 2:2,7 |
| F | Cataract | Cortical posterior or anterior; usually young dogs between 1.5-3 y.o. | Unknown | NO | 1,2 |
| G | Persistent hyperplastic primary vitreous/ Persistent | | Unknown | NO | 2 |

| | | | | | |
|----------|--|------------------|---------|----|---|
| | hyperplastic tunica vasculosa lentis (PHTVL/PHPV) | | | | |
| H | Progressive Retinal Atrophy (PRA) | Between 3-5 y.o. | Unknown | NO | 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 | Ectopic cilia | ACVO genetics committee |
| B | Corneal dystrophy, stromal | ACVO genetics committee |
| C | Persistent pupillary membranes | ACVO genetics committee |
| D | Vitreous degeneration | ACVO genetics committee |

References

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4. Gelatt KN: Indolent corneal ulcer in a boxer dog. *Vet Med Small Anim Clin* 65:353, 1970.
5. Gelatt KN, Samuelson DA: Recurrent corneal erosions and epithelial dystrophy in the Boxer dog. *J Am Anim Hosp Assoc* 18:453, 1982.
6. Kirschner SE, Niyo Y, Betts DM: Idiopathic persistent corneal erosions: clinical and pathological findings in 18 dogs. *J Am Anim Hosp Assoc* 25:84, 1989.
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