**Miniature Schnauzer**

**Ocular disorders known or presumed to be inherited (published)**

<table>
<thead>
<tr>
<th></th>
<th>Diagnosis</th>
<th>Description and comments specific to the breed</th>
<th>Inheritance</th>
<th>Gene/ marker test</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Myopia</td>
<td>Affects up to 40% of dogs; mean refractive error of myopic schnauzers is -1.4D</td>
<td>Unknown</td>
<td>NO</td>
<td>1, 2</td>
</tr>
<tr>
<td>B</td>
<td>Keratoconjunctivitis Sicca</td>
<td>Relative risk = 1.8; low meibomian gland production may predispose to KCS</td>
<td>Unknown</td>
<td>NO</td>
<td>3-6</td>
</tr>
</tbody>
</table>
| C | Cataract                        | 1. Congenital with posterior lenticonus and microphthalmia: Nucleus and posterior cortex; globe and lens size reduced 10-20%; lenticonus in 20% of cataracts  
2. Juvenile posterior cortex: Age of onset 6+ months | Presumed autosomal recessive | NO          | 7-12       |
| D | Ceroid lipofuscinosis           | Loss of vision and neurological signs                                                                        | Presumed autosomal recessive | NO          | 17-19       |
**Progressive Retinal Atrophy (PRA)**

1. **PRA Type A**, (Photo receptor dysplasia), uncommon. ERG and histopathological changes from 8 weeks. Funduscopic changes and visual impairment appear at 2-5 y.o.;
2. Early 2-4 y.o
3. Late-onset form

**Retinal dysplasia with or without PHPV**

1. Presumed Autosomal recessive
2. Autosomal recessive
3. Unknown

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

<table>
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<tr>
<th></th>
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<th>Source</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>Microphthalmia</td>
<td>ACVO genetics committee</td>
</tr>
<tr>
<td>B</td>
<td>Distichiasis</td>
<td>ACVO genetics committee</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Finnish Kennel Club Database</td>
</tr>
<tr>
<td>C</td>
<td>Persistent pupillary membranes</td>
<td>ACVO genetics committee</td>
</tr>
<tr>
<td>D</td>
<td>Corneal dystrophy -epithelial/stromal</td>
<td>ACVO genetics committee</td>
</tr>
<tr>
<td>E</td>
<td>Vitreous degeneration</td>
<td>ACVO genetics committee</td>
</tr>
</tbody>
</table>

### References


