3. The ECVO Hereditary Eye Disease Scheme

Accepted by the Executive Committee 2016

1. The Scheme

The ECVO has a Hereditary Eye Disease Scheme (further referred to as the Scheme) as mentioned in the Bylaws of the ECVO, Article 4.9, used for the diagnosis and the control of Known and Presumed Hereditary Eye Diseases (KP-HED) in animals.

The main purposes of the Scheme are to set standards for the diagnosis and provide advice for the control of KP-HED of dogs and cats. The diseases included are either disabling, painful or perturbing to the wellbeing of animals, or diseases that necessitate surgical, or otherwise physiologically altered intervention or lifelong medication.

The Scheme provides definitions, guidelines, advice and information concerning KP-HED, as described in the ECVO Manual for KP-HED of dogs and cats. Additional information is given in the appendices of the scheme, and through illustrations. Current versions of these documents are published on the ECVO website www.ecvo.org.

The Scheme guarantees that:
- all examiners are able to recognize and to differentiate relevant and irrelevant clinical signs of KP-HED and establish their significance in dogs and cats;
- rules and guidelines are provided for the examination and validation of specifically trained European Specialists in Veterinary Ophthalmology (Diplomates) and specifically trained veterinarians (European Eye Scheme Examiners or ESE) to provide a service for owners, breeders, the breed and kennel clubs and the public in general, by providing an appropriate level of expertise for the diagnosis of KP-HED.

Examinations under the Scheme are performed in accordance with the ECVO Constitution and Bylaws and include a general screening examination of the eye and its adnexa. Based on the examination, a certificate is issued. The certificate is valid for 12 months. It is recommended that animals used for breeding are examined annually. Animals not used for breeding may be examined at longer intervals, in accordance with the ECVO Manual. If the examination findings are inconclusive, it may be necessary for the animal to be re-examined earlier than recommended in this paragraph. This shall be stated on the certificate.

2. Organization and panels

The ECVO Diplomates and the national ESE (when recognized) shall form a National Panel in countries where this has been agreed upon, and the necessary rules and regulations set. These rules and regulations shall not contain any provision that violates the Constitution or Bylaws of the ECVO or the rules of the Scheme.

Each National Panel shall have a Board, elected by its members. The Board shall consider all business and policies pertaining to the affairs of the National Panel. In the absence of a National Panel, the HED-Committee of the ECVO can act in its place.

For countries where an established National Panel has been in existence for more than 5 years, on the advice of the HED-Committee, this Panel can apply to the Executive Committee of the ECVO for recognition under the ECVO Scheme.
The National Panel must meet at least once per year to discuss the Scheme and its operation.

3. Panelists

Panelists approved by the ECVO to perform examinations under the Scheme are:
- Diplomates of the ECVO
- Eye Scheme Examiners, being veterinarians, specifically trained and examined in countries where this has been agreed. This agreement may be extended ad infinitum by the ECVO.
- Affiliate members as defined in the ECVO Constitution & Bylaws.

Training and examination of Eye Scheme Examiners
Details of application procedure, training and final examination are given in Appendix A.

Requirements for maintaining Panelist status.
The Board of the National Panel is responsible for the compliance of their Panelists with the following rules. If no National Panel exists, the HED-Committee of the ECVO can act in its place. The Panelists, including both Diplomates and ESE, are obliged to work under the rules of both the ECVO Scheme and the National Scheme.
- If work is conducted by an examiner in serious violation of these rules, the Board of the National Panel or, if no national panel exists, the HED-committee is entitled to expel the person from the panel.
- If there is proof of continuing misdiagnoses by a Panelist, this individual shall be re-examined, or the Board of the National Panel is entitled to expel the examiner from the Panel. If expelled, the former Panelist is neither allowed to issue ECVO certificates, nor issue documents that imply the same status as the ECVO certificate.
- The Panelist shall complete the minimum number of examinations for the Scheme of 100 per year or 300 per 3 years; if less, re-qualification is necessary. Recently qualified Panelists are exempted from this requirement during their first full year as Panelist. Panelists on maternal leave or a documented shorter period of work debilitating disease can apply the Board of the National Panel for exemption.
- If the Panelist wants to perform gonioscopy as part of the examination under the ECVO Scheme, the Panelist shall complete a minimum number of gonioscopy examinations for the Scheme of 10 per year or 30 per 3 years (which may be part of the general examinations for the Scheme); if less, gonioscopy should not be performed. Recently qualified Panelists are exempted from this requirement during their first full year as Panelist. Panelists on maternal leave or a documented shorter period of work debilitating disease can apply the Board of the National Panel for exemption.
- The panelist shall attend the annual meeting of the national panel. If absent from 3 consecutive meetings, without dispensation of the Board of the National Panel, the panelist can be expelled from the national panel. If the panel holds other related meetings (e.g. arbitrary or appeal cases) the panelist shall attend these meetings. If absent of more than half of these meetings over 3 consecutive years, without written dispensation of the Board of the National Panel, the individual can be expelled by the Board of the national Panel.
- The panelist shall attend at the least one annual scientific meeting during 3 years. If absent without dispensation of the Board of the National Panel (or the HED-Committee), the individual can be expelled by the Board of the national Panel ((or the HED-Committee of the ECVO)
- The panelist shall contribute to the education of new panel members through practical training and instruction of aspirants.
- The Panelist must possess good eyesight with a normal stereoscopic, colour vision (binocular, with a minimum visual acuity of 0.7 corrected for refractive errors). A certificate of visual acuity is to be presented to the Board of the National Panel or the HED-Committee of the ECVO every 5 years until the age of 70, and after that age, every second year.
Under exceptional circumstances the Board of the National Panel, or if there is no Panel, the HED-Committee of the ECVO may grant a Panelist exemption from the minimum requirements for number of eye examinations conducted, and meeting attendance.

A decision to expel a Panelist from the Panel is taken by the Board of the National Panel. The Panelist has the right to appeal to the National Panel at the next annual meeting or alternatively to the HED-Committee of the ECVO.

A Panelist who is expelled from the panel may be allowed to sit a new examination in order to re-qualify. The decision is taken by the Board of the National Panel (or the HED-Committee of the ECVO), which will also decide on the extent of the examination.

4. Arrangements for the Eye Examination

Individual animals can be presented for ophthalmic examination, or group examinations can be arranged. Minimum facilities for performing an ophthalmic examination include darkened surroundings, an examination table and suitable electrical power supply.

5. Procedure for the Eye Examination

Examination for the Scheme is performed according to the current ECVO rules (See ECVO Manual). An ECVO certificate is issued upon completion of the examination.

- Partial or preliminary examinations are not permitted.
- Gonioscopy may be performed as an additional examination.
- An ECVO certificate shall be issued for each animal. Breed specific forms issued by breed clubs may be filled and signed by an ECVO examiner in addition. The decision to charge for any extra costs incurred is at the discretion of the Panelist.

The following documents should be available before the examination:

- the animal's registration document or other identifying document ;
- any previous eye certification.

The owner and/or his agent will present the animal for examination at the appropriate time together with the documents referred to above. If the animal's registration or other identifying documents are not available, examination can be undertaken, but the Certificate will not be issued until the Panelist has been provided with the relevant documentation.

Prior to the examination, the owner or their appointed agent, must sign an agreement to the examination procedure, recording of results, submission of results to the appropriate National Kennel Club and that the results will be made available in the public domain, as outlined in the Scheme. This will complete the first part of the Certificate, verifying that the details given in that section are correct. Details included in this section relate to the identification of the animal being submitted for examination and the date of the last eye examination. Microchip number or tattoo should be verified under direct control of or by the examiner, or his/her designated assistant, prior to the ophthalmic examination.

Certificates for the Scheme can only be issued for permanently identified animals (e.g. by microchip or tattoo). Exceptions for mixed-breed animals that are permanently identified and animals outside the scheme are given in § 6.
Subject to the registration documents being available as stated above, the Certificate should be signed and issued by the Panelist and distributed according to the instructions.

If online-registration of results is available, this process should be completed immediately or at the latest within three days of the examination.

If paper copies are issued, this distribution will involve:

- top copy (white) will be sent as soon as possible (within 14 days of the date of examination) to the appropriate Kennel club or National Scheme authority, which will undertake to make the result publically available within a maximum of 10 weeks after the date of examination
- one copy (yellow) can be sent by the owner to the appropriate Breed club, or is sent by the examiner to the Breed club within a maximum of 10 weeks after the date of the examination
- one copy (pink) will be retained by the Panelist as their record
- one copy (white) will be given to the owner or agent
- one (optional) copy (blue) may be distributed to the referring veterinarian by the examiner or owner.

All animals presented under the Scheme will have a general screening examination of the eye and adnexa in darkened surroundings. This will include the necessary use of a short-acting mydriatic.

For an ophthalmic screening examination in accordance with the ECVO Scheme, evaluation of the entire eye is recommended. This examination includes the adnexa, and the anterior and posterior segments. Visual function should also be noted if abnormal.

It is recommended initially to examine the visual processes by visual behavior, followed by examination of the ophthalmic reflexes and reactions, e.g. menace reaction, dazzle-, palpebral- and pupillary light reflexes (PLRs). Biomicroscopy of the adnexa and anterior segment is then performed. Evaluation of the iridocorneal angle is done by gonioscopy (see gonioscopy below). These procedures are followed by dilation of the pupils using short acting mydriatics. Ophthalmoscopy and biomicroscopy (slit lamp examination) are then performed with focus on the posterior and anterior segments of the eye.

The minimum equipment to be used for the examination is a slit-lamp biomicroscope (at least 10 x magnification) and a binocular indirect ophthalmoscope with appropriate lenses. The use of other equipment is optional.


The Panelist should evaluate all conditions specified on the certificate, and all boxes referring to diagnoses should be ticked. The appropriate boxes should be left open if gonioscopy has not been performed or if diagnoses from the drop-down menus, boxes No 7 and 18, “Other” are not relevant. Details of all lesions and conditions found at the time of examination, whether relating to hereditary eye disease or not, should be concisely and legibly recorded, in English or in the national language in the descriptive comments section in the middle of the Certificate, using drawings and/or written remarks. Photographic documentation of conditions should be done whenever possible.

**Gonioscopy**

Gonioscopy is not included in the basic ophthalmoscopic examination but may be performed as an additional examination, and performed prior to pupillary dilation (see Procedures for eye examinations above). A standard procedure for examination and technique in regard to performing gonioscopy is recommended. This includes the use of a focal light source and magnification (e.g. slit-lamp microscope) as well as special gonioscopy lenses.

**Known and Presumed Hereditary Eye Diseases (KP-HED) in Dogs and Cats**

3-4
(e.g. Barkan, Koepe, 4-mirror lens). Technical errors (due to position of the goniolens, avoidance of unintentional indentation etc) should be avoided. If performed, the result of gonioscopy shall be recorded on the ECVO Certificate.

It is recommended that gonioscopy is done in breeds in which primary glaucoma is known to occur. A list of relevant breeds is published in the ECVO Manual, chapter 6. Guidelines, and revised regularly by the ECVO HED committee.

The evaluation of the iridocorneal angle (ICA) for iridocorneal angle abnormality (ICAA) is ticked as defined in the ECVO Manual, chapter 6. Guidelines, present at the time of examination.

If any additional (or alternative) method of examination, not mentioned on the form, is used, the box in the examination section, “other” is ticked and specified, and the Certificate is only valid if accompanied by an additional document specifying the method(s) used.

**Litter examination**

For litter examination a separate Certificate should be issued for each animal examined. The examination can only be performed after permanent identification, e.g. by microchip implantation, of the examined animals. It is, however, possible to use a litter form as long as the data can easily be transferred to the European database.

A registration document may not be available, but any certification can be completed using the details of the dam and sire, together with the date of birth of the puppies and, the microchip numbers (alternatively, a readable tattoo). The distribution of copies is the same as for the Certificate of Eye Examination.

### 6. Examination outside the Scheme

- If a permanently identified dog or cat is examined outside the Scheme by an ECVO Panelist and a KP-HED is recognized, the Panelist is strongly advised to issue an ECVO Certificate.
- If no certificate is issued, the Panelist is obliged to keep record of such cases and report the number of cases per disease to the ECVO HED-Committee annually (due at the annual HED-committee meeting).
- Mixed-breed dogs or cats that can be identified by microchip or tattoo can be examined within the Scheme, and an ECVO Certificate, with the first part signed by the owner/agent, can be issued. If there is an appropriate system for registration of results, a copy of the certificate should be sent to the relevant body. The Panelist is obliged to keep records of these examinations.

### 7. Publication of Results

The name of the registered animal examined under the Scheme, the registration and identification numbers, together with the results of the examination shall be made public. They will be sent to the appropriate National registration office. The results will be published in accordance with National regulations.

An ECVO certificate from one country should be accepted by all European National registries.

### 8. Conflicting results of eye examinations conducted on the same animal

- If the results of two eye examinations of the same animal conflict, the most adverse judgement is valid until the animal is examined by a minimum of three members of the National Panel or by a Chief or deputy Chief Panelist, whose decision will be final.
- When an animal is determined to be “affected” for a known or presumed inherited eye disease (KP-HED) by a panel member or the local appeals authority, and the animal is transferred to another registry, the result “affected” for this KP-HED will not be changed, unless the animal has been re-examined by
the appeals authority of the new registry. The latter results, with the exception of conditions that necessitate surgical, or otherwise physiologically altered intervention, (e.g. distichiasis, entropion, etc.), are definitive.

- When an animal is determined to be “affected” for distichiasis by a panel member, the decision is final. When an animal is judged “affected” for another presumed inherited eye disease (KP-HED) which necessitates surgical, or otherwise physiologically altered intervention e.g. entropion, ectropion or macroblepharon, an appeal must be lodged within fourteen (14) days after the initial examination. The animal is then examined by a minimum of three members of the National Panel or by a Chief or deputy Chief Panelist, whose decision will be final.
- Eye examinations in case of conflicting results are performed at the owner’s expense.

9. "Suspicious" cases

- It is recommended that “suspicious” cases, after the period prescribed on the Certificate, are re-examined by a minimum of three members of the National Panel or by a Chief or deputy Chief Panelist, whose decision will be final.
- Alternatively, re-examination of cases previously judged "suspicious" can be performed by the first examiner or by another Panelist.
  - In the event that the first examiner or another Panelist determines that the previously judged "suspicious" animal is "affected", this “affected” judgement is valid. If the owner appeals this decision, the animal is examined by a minimum of three members of the National Panel or by a Chief or deputy Chief Panelist, whose decision will be final.
  - In the event that the first examiner or another Panelist finds the previously judged "suspicious" animal "unaffected", the “suspicious” judgement remains valid until the animal is examined by a minimum of three members of the National Panel or by a Chief or deputy Chief Panelist, whose decision will be final.
- Alternatively, provided a period of at least 1 year has elapsed between the initial examination and subsequent examination, any one Panelist can determine that an animal previously judged to be “suspicious” is “unaffected”.
- Eye examinations in “suspicious” cases as mentioned before, are performed at the owner’s expense.

10. Appeal Procedures

- An owner has the right to appeal against the results of an eye examination.
- Evaluations of appeal cases are performed by a minimum of three members of the National Panel together or by a Chief or deputy Chief Panelist.
- Any appeal against the result of an eye examination should be lodged with the National Panel or National Registry within 60 days after the examination. In the case of choroidal hypoplasia and retinal dysplasia re-examination must be completed before 12 weeks of age or within 5 days if the puppy was aged less than 12 weeks at the time of the initial examination.
- The owner will present the animal, and the Certificate issued by the first Panelist, for examination at the owner’s expense. The most adverse judgement is valid until the animal is examined by a minimum of three members of the National Panel or by a Chief or Deputy Chief Panelist, whose decision will be final.

11. Further details
Appendix A

Training and examination of ECVO Eye Scheme Examiners

Before training commences
- The candidate must confirm normal stereoscopic vision and color vision (binocular, with a minimum visual acuity of 0.7 corrected for refractive errors).
- An education and training plan based on the requirements of the ECVO Eye Scheme must be organised by the candidate.
- It is recommended to have a main supervisor, who could be an ECVO Diplomate or an ESE from an ECVO approved national Panel.
- The candidate should have access to the basic ophthalmic instruments; direct and indirect ophthalmoscopes, a slit-lamp biomicroscope and a gonioscopy lens.

Practical training
- The candidate must document the ophthalmic examination performed according to the ECVO rules (See ECVO Manual) of at least 500 dogs under supervision.
- For these examinations, the supervisor is a recognised panel member and must be present.
- Panelists from non-ESE national panels and acknowledged by the ECVO HED Committee, may in exceptional circumstances be approved to serve as supervisors.
- At least 50 of the dogs shall be examined under direct supervision of an ECVO Diplomate. Up to 200 dogs can be examined under direct supervision of an ACVO Diplomate.
- The candidate must document the examination of certain specific breeds and diseases, the minimum numbers for each as defined in Appendix A.
- The candidate must document the examination of at least 100 cats. At least 10 of these cats shall be examined under direct supervision of an ECVO Diplomate or ESE.
- The trainee must perform and record gonioscopy on at least 20 dogs under supervision.
- A record shall be kept for all animals examined. The record should include breed, sex and age of the animal examined, ophthalmic findings and diagnosis/es and should be signed by the supervisor(s).

Theoretical training
Before sitting the examination, the candidate should acquire a sufficiently high level of current knowledge of
- Ocular embryology and anatomy
- Ocular physiology
- Basic examination techniques
- Breed-related diseases and genetic testing
- Neuroophthalmology

Known and Presumed Hereditary Eye Diseases (KP-HED) in Dogs and Cats
For this, the candidate

- must document participation in at least 3 ECVO-recognized continuing education courses in ophthalmology (each of a duration of minimum 1.5-2 days), which include the use of ophthalmic equipment, diseases of the anterior and posterior segments, and basic genetic principles
- should have studied the literature concerning known and presumed hereditary eye diseases (KP-HED) in animals, including relevant published scientific articles and the ECVO Manual for KP-HED in Dogs and Cats

The requirements defined by ECVO will be considered minimum requirements. National or regional requirements for training and examination may exceed the demands of the ECVO.

Examination

An examination is necessary to qualify as an ECVO-Eye Scheme Examiner (ESE). The full training programme should be fulfilled before the candidate is qualified to sit the ESE examination for the scheme. Candidates may apply to an exam planned by any active ECVO Panel. The documentation will be reviewed by the ECVO/HED C according to an agreement with the involved Panel.

The examination committee for the examination to qualify as Eye Scheme Examiners consists of at least three members of ECVO Panels, of which at least two should be ECVO Diplomates.

The examination will consist of

- a written section of 3 hours’ duration on multiple choice (50; 3 min/question) and/or essay questions on known and presumed hereditary eye diseases and relevant ophthalmology topics
- a combined practical and written section of 45 minutes’ duration based on 45 images of known and presumed hereditary eye diseases as well as normal ocular variations
- a final section which will consist of live case evaluation (at least 5 cases) with the issue of a correct ECVO Certificate for each case. The candidate is allowed 15 minutes for examination of each animal, plus 5 minutes to fill in the certificate. The certificate should be completed in detail, including the “Conclusions” section.

This final section can only be taken once the candidate has passed the first two sections of the examination.

The different parts of the education programme (courses, practical training, etc.) are valid for ten calendar years. Candidates may sit each part of the examination (MCQ, slide recognition and practical/oral) up to a maximum of four times.

A reasonable transition period will apply to changes made to the requirements. Major changes (i.e. significant increase in numbers of animals to be examined/cases to be seen, additional courses etc), apply only to aspirants who have started after the change has been made.

Appeals procedure

Appeals should be directed in writing to the Board of ECVO that will handle it according to normal appeals procedures

Appendix A

The following list of diseases/variations must have been seen and recorded (at the discretion of the national panel). The protocol must be signed by the supervisor(s)

<table>
<thead>
<tr>
<th>Disease</th>
<th>Number</th>
</tr>
</thead>
</table>
| Globe            | Microphthalmia | 2

Known and Presumed Hereditary Eye Diseases (KP-HED) in Dogs and Cats
<table>
<thead>
<tr>
<th>Eyelids</th>
<th>Distichiasis</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lacrimal punctum, atresia</td>
<td>3</td>
</tr>
<tr>
<td>Iris</td>
<td>Persistent pupillary membrane (iris-cornea or iris-lens)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Persistent pupillary membrane (iris-iris, crossing pupil)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Iris hypoplasia</td>
<td>2</td>
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<tr>
<td></td>
<td>Iris atrophy</td>
<td>2</td>
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<tr>
<td>Lens</td>
<td>Perinuclear ring</td>
<td>2</td>
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<tr>
<td></td>
<td>Nuclear fibrillar or punctate opacities</td>
<td>5</td>
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<tr>
<td></td>
<td>Pigment on anterior lens capsule</td>
<td>5</td>
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<tr>
<td></td>
<td>Cataract, complete</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Cataract posterior cortical, including posterior polar</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Cataract, anterior cortical / subcapsular</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Cataract, anterior suture lines</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Cataract, other (e.g. suture tips, equatorial)</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Cataract, nuclear</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Lens (sub)luxation (can be seen without supervision – cats can be included)</td>
<td>5</td>
</tr>
<tr>
<td>Vitreous</td>
<td>Asteroid hyalosis</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Vitreous in anterior chamber</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>PHTVL/PHPV grade 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PHTVL/PHPV grade 2-6</td>
<td>2</td>
</tr>
<tr>
<td>Fundus</td>
<td>Retinal detachment, Complete (cats can be included). One can be seen without supervision</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Retinal detachment, Partial (cats can be included). One can be seen without supervision</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>RD focal/multifocal, retinal folds</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>RD geographic</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CEA, CRD</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>CEA, coloboma (3 has to be in collie-breeds)</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>PRA early stage</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>PRA late stage</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Micropapilla/Optic nerve hypoplasia</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Non-inherited focal retinopathies</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Other presumed hereditary retinopathies* (type described)</td>
<td>4</td>
</tr>
<tr>
<td>Other</td>
<td>Iridocorneal angle abnormalities (ICAA) as defined in Chapter 6, Guidelines, as “Affected”</td>
<td>5</td>
</tr>
</tbody>
</table>

*Examples of retinopathies, but not limited to: Canine Multifocal Retinopathy (CMR), Chinese Crested (CC) Pigmentary Chorioretinopathy, Working Dog Retinopathy (WDR), Västgötaspets Retinopathy (J175) (see Chapter 6: Guidelines).

Of the 500 dogs examined, at least 40 has to be puppies < 10 weeks age of any breed known to be affected by CEA. Of those at least 20 has to be collie/sheltie puppies. At least 10 of the puppies have to be merle dogs. Five of the 10 merle puppies can be of other breeds than collie/sheltie.
Appendix B

List of relevant literature

Anatomy, embryology and histology, physiology, immunology, pharmacology and vision

Pathology

Neuro-ophthalmology
DeLahunta& Glass: Veterinary neuroanatomy and clinical neurology 3rd Ed. Saunders/Elsevier 2009 (chapters related to the eye and adnexa and vision)

Clinical ophthalmology
3. Ophthalmology for the veterinary practitioner (Stades F,Wyman, Boevé, Neumann, Spiess), Schlütersche Hannover, 2007
7. Feline ophthalmology, an atlas and text (Barnett KC & Crispin SM), WB Saunders, 1998

Genetics
1. Inherited eye diseases in purebred dogs (Rubin L) Williams & Wilkins, 1989.
2. ACVO Genetics Committee: Ocular disorders proven or suspected to be hereditary in dogs.Vet.Pract.Publishing

Recommended articles

Known and Presumed Hereditary Eye Diseases (KP-HED) in Dogs and Cats

Journals
Veterinary Ophthalmology (last 7 years til 1st of Jan the year the exam is sat) Relevant articles in (last 7 years til 1st of Jan the year the exam is sat):

Known and Presumed Hereditary Eye Diseases (KP-HED) in Dogs and Cats
3-14