

Suggested Resource Material 2020 AiCVO Exam

January 5, 2020

All Written examination questions for candidates of the Asian college of veterinary ophthalmologist (AiCVO) are supported by a reference within the past seven years or from a textbook or journal article on this list of "Required" references.

1. List of Required Textbooks

- (1) Barnett KC, Heinrich C and Samson J. Canine Ophthalmology: an Atlas and Text. Saunders, 2002.
- (2) Dubielzig R, et al. Veterinary Ocular Pathology: A Comparative Review. Elsevier, 2010.
- (3) Eisner G., Schneider P., and Telger TC. Eye Surgery, An Introduction to Operative Technique. Springer-Verlag, (Most recent edition). --- This text describes instrumentation, fundamentals of microsurgery and surgical procedures including a method for extracapsular lens extraction that may be useful for the surgical portions of the Practical Examination (<http://www.eisner-georg.ch/Medizinisch-en.html>).
- (4) Evans HE., and de Lahunta A. Miller's Anatomy of the Dog, Ocular and Orbital Sections. WB Saunders Co, (4th edition; Chapters on eye, orbit, and cranial nerves).
- (5) Gelatt KN. and Gelatt JP. Veterinary Ophthalmic Surgery. Saunders Elsevier, 2011.
- (6) Gelatt KN., et al. Veterinary Ophthalmology (5th edition). Wiley-Blackwell, 2013.
- (7) Gilger BC. Equine Ophthalmology (2nd edition). Elsevier Saunders, Philadelphia, 2011.
- (8) Gould DJ. and McLellan GJ. BSAVA Manual of Canine and Feline Ophthalmology (BSAVA British Small Animal Veterinary Association). Third ed., BSAVA Publications, 2015.
- (9) Jubb and Kennedy, Pathology of Domestic Animals, (Most recent edition) (eye chapter only). (review general ocular pathology, the histology and basic mechanisms of pathologic lesions for each section of the eye, and pathologic features of diseases directly applicable to veterinary medicine).
- (10) Levin LA.. et al. Adler's Physiology of the Eye. CV Mosby Co, (11th edition).
- (11) Maggs D., et al. Slatter's Fundamentals of veterinary Ophthalmology. 6th ed., Saunders Elsevier, 2017.
- (12) Martin CL., et al. Ophthalmic Diseases in Veterinary Medicine. Second ed., CRC press, 2018.
- (13) Michell N. and Oliver J. Feline Ophthalmology: The Manual. Servet, 2015.
- (14) Seibel BS. Phacodynamics: Mastering the Tools and Techniques of Phacoemulsification Surgery. Slack Inc. (Most recent edition)
- (15) Troutman RC. Microsurgery of the anterior segment of the eye. Volume 1: Introduction and Basic Techniques. Mosby, 1974.

(16) ACVO Genetics Committee: Ocular disorders presumed to be inherited in purebred dogs, 7th edition 2014 --- This data should be familiarized, but not be memorized in all specific diseases.

(17) Byrne SF, Green RL. Ultrasound of the Eye and Orbit, 2nd ed, Jaypee Brothers Medical Pub., 2010.

(18) Dunn J. Manual of Diagnostic Cytology of the Dog and Cat, Cytology of the Eye and Adnexal Structures described by Powell R, Gould D, Wiley Blackwell 2014

(19) Ettinger SJ and Feldman EC. Textbook of Veterinary Internal Medicine Diseases of the Dog and Cat, vol.1, 7th ed, Saunders (chapters related to systemic diseases accompanying ophthalmic diseases)□, 2010

(20) Greene CE. Infectious Disease of the Dog and Cat, 4th ed, Elsevier□(chapters related to ophthalmic diseases), 2011.

(21) Withrow SJ and MacEwen EG. Small Animal Clinical Oncology, 5th ed, Saunders (chapters related to ophthalmic diseases), 2012.

2. List of Textbooks Recommended for Image Recognition exam preparation

The following texts may be useful in preparing for the Image Recognition portion of the examination. No questions will be derived from these texts for the Written portion of the examination.

(1) Barnett KC. Color Atlas of Veterinary Ophthalmology. Williams and Wilkins, (Most recent edition).

(2) Barnett KC. Color Atlas and Text of Equine Ophthalmology. CV Mosby/Wolf, (Most recent edition).

(3) Ketring KL. and Glaze MB. Atlas of Feline Ophthalmology. Veterinary Learning Systems, (Most recent edition).

(4) Dziezyc J. and Millichamp NJ. Color Atlas of Canine and Feline Ophthalmology. W.B. Saunders (Most recent edition).

(5) Lim CC. Small Animal Ophthalmic Atlas and Guide. Wiley-Blackwell. (Most recent edition).

(6) Esson DW. Clinical Atlas of Canine and Feline Ophthalmic Disease. 1st ed., Wiley-Blackwell, 2015.

(7) Gelatt KN. Color Atlas of Veterinary Ophthalmology. Blackwell Publishing, 2001.

3. List of Required Journals

Past seven years of journal articles in print prior to January 1 of the year of the examination. Date of e-publication is irrelevant. Example: The hard copy publication dates covered on the exam range from **January 1, 2013 to December 31, 2019**. (Note: Beginning with journal publication dates of **January 1, 2013** and later, no questions on the

Written examination will be derived from case reports that involve single animals. Review of images in these case reports is recommended for Image Recognition exam preparation.)

3.1 Essential Veterinary Journals

The large majority of questions for the written examination will be derived from these journals.

- (1) Veterinary Ophthalmology
- (2) American Journal of Veterinary Research*
- (3) Equine Veterinary Journal*
- (4) Journal of Small Animal Practice*
- (5) Journal of the American Animal Hospital Association*
- (6) Journal of the American Veterinary Medical Association*
- (7) Veterinary Clinics of North America*
- (8) Veterinary Pathology*
- (9) Veterinary Record*
- (10) Veterinary Surgery*
- (11) Journal of Veterinary Internal Medicine*
- (12) Veterinary Immunology and Immunopathology*

(Note*: Articles from these veterinary journals should be reviewed for any situation or disease that involves ocular, periocular, or neuro-ophthalmic structures or systemic conditions relevant to ophthalmic disease.)

3.2 Human Journals

Questions derived from pertinent articles* from these journals may occur infrequently on the Written examination):

- (1) Current Eye Research
- (2) Experimental Eye Research
- (3) Graefe's Archives for Clinical and Experimental Ophthalmology
- (4) Investigative Ophthalmology and Visual Science
- (5) Journal of Ocular Pharmacology and Therapeutics

(*Note: Review of basic science, human clinical and other veterinary specialty journals should be limited to those articles dealing with situations or diseases directly applicable to veterinary ophthalmology (eg. where a common domestic animal is used as an animal model). Review of human clinical conditions or basic science articles unrelated to veterinary ophthalmology is not necessary for exam preparation.)

4. Classic Articles and Reviews

- (1) An overview of recent developments in corneal immunobiology: potential relevance in the etiogenesis of corneal disease in the horse. Matthews AG, Veterinary

Ophthalmology 2008, 11 Suppl 1, 66-76

- (2) Clinical ocular toxoplasmosis in neonatal kittens. Powell CC, Lappin MR, Veterinary Ophthalmology 2001, 4, 87-92□
- (3) Comparative morphology of the tapetum lucidum among selected species. Ollivier FJ, Samuelson DA, Brooks DE, Lewis PA, Kallberg ME, Komáromy AM. Veterinary Ophthalmology 2004, 7, 11-22
- (4) Comparative retinal ganglion cell and optic nerve morphology. Brooks DE, Komáromy AM, Källberg ME. Veterinary Ophthalmology 1999, 2, 3-11
- (5) Feline ocular toxoplasmosis. Davidson MG, English RV. Veterinary Ophthalmology 1998, 1, 71-80□
- (6) Ganglion cell death in glaucoma: from mice to men. Nickells RW, Veterinary Ophthalmology 2007, 10 Suppl 1, 88-94
- (7) Guidelines for clinical electroretinography in the dog. Narfström K, Ekestén B, Rosolen SG, Spiess BM, Percicot CL, Ofri R. Documenta Ophthalmologica 2002, 104, 83-92□
- (8) Infectious Bovine Keratoconjunctivitis (Pink Eye) (Angelos JA). The Veterinary Clinics of North America (Food Animal Practice) 2015, Jan 6 (EPub)
- (9) Infectious disease and the eye (Stiles J), The Veterinary Clinics of North America: Small Animal Practice 2000, 30(5)□
- (10) Ocular Therapeutics (Moore CP) The Veterinary Clinics of North America (Small Animal Practice) 2004, 34 (3) 611-847□
- (11) Ophthalmic Emergencies in Horses (Schaer BD) , The Veterinary Clinics of North America: (Equine Practice) 2007, 23 (1), 49-65
- (12) Ophthalmic Immunology and Immune-Mediated Disease (Williams DL) The Veterinary Clinics of North America (Small Animal Practice) 2008, 38 (2)□
- (13) Photodynamic therapy: basic principles and potential uses for the veterinary ophthalmologist. Giuliano EA, Ota J, Tucker SA, Veterinary Ophthalmology 2007, 10, 337-43
- (14) Proteinases of the cornea and precocular tear film. Ollivier FJ, Gilger BC, Barrie KP, Kallberg ME, Plummer CE, O'Reilly S, Gelatt KN, Brooks DE, Veterinary Ophthalmology 2007, 10, 199-206
- (15) Standing Ophthalmic Surgeries in Horses (de Linde Henriksen M et al.). The Veterinary Clinics of North America (Equine Practice) 2014, 30, 92-105□
- (16) Surgical Management of Ocular Disease (Nasisse, MP) The Veterinary Clinics of North America (Small Animal Practice) 1997, 27 (5)
- (17) Systemic hypertensive disease and the feline fundus. Crispin SM, Mould JRB, Veterinary Ophthalmology 2001, 4, 131-140□
- (18) Technical issues in electrodiagnostic recording. Komáromy AM, Brooks DE, Dawson WW, Källberg ME, Ollivier FJ, Ofri R, Veterinary Ophthalmology 2002, 5, 85-91□

- (19) Updates in Ophthalmology (Cutler TJ) The Veterinary Clinics of North America: (Equine Practice) 2004, 20, (2), 285-506□
- (20) Viscoelastic materials in veterinary ophthalmology. Wilkie DA, Willis AM. Veterinary Ophthalmology 1999, 2, 147-153□