

Reading List Avian Specialty 2024-2025 (applies to the 2025 Examination)

This document is intended to assist residents in compiling a list of text books and journals that should be read prior to sitting the ECZM (Avian) examination. The program director and resident supervisor should ensure these are available at the main institution where the resident works, either as part of the university or practice library, or owned personally by the resident, program director or resident supervisor. It is important that the resident has access to the entire Compulsory Bibliographic Reading List as this forms the basis of the examination. The resident should ensure they have the latest (current year's) edition for examination preparation as texts and journals may be added or removed following a specialty vote during the ECZM Annual General Meeting.

It should be noted that it is impossible for such a list to be comprehensive and cover all current information on the discipline. It is the resident's responsibility (with the assistance of their supervisor and program director) to ensure they are current on all relevant information in the field. It is the resident's responsibility (with the assistance of their supervisor and program director) to ensure they are current on all relevant information in the field.

While the majority of questions in the exam are referenced from the compulsory bibliographic reading list, occasionally (<3%) questions may be generated from other peer-reviewed journals and monographs/books outside the suggested reading list where the subject matter is important and relevant to the specialty.

All Diplomates of the European College of Zoological Medicine (Avian) are further required to refer to the *Nomina Anatomica Avium*, as listed below, for anatomical nomenclature and to *Clements Checklist of Birds of the World* (2013), as listed in the consultative reading list, for names of species when writing material for ECZM.

Compulsory Bibliographic Reading List

Refereed Journals

Published in the 5 previous complete calendar years (January to December) prior to the according exam. Publications related to wild, aviary and pet birds, as well as (backyard) poultry only. Also includes the abstracts from articles from other journals which are not included in the listed journals. (total approx. 4000-4500 p.)

- American Journal of Veterinary Research
- Avian Diseases
- Avian Pathology
- Journal of the American Veterinary Medicine Association
- Journal of Avian Medicine and Surgery
- Journal of Zoo and Wildlife Medicine
- Journal of Exotic Pet Medicine
- Veterinary Clinics of North America, Exotic Animal Practice

Books

Bennett RA, Pye GW. Surgery of Exotic Animals. John Wiley & Sons, Hoboken, 2021. (91 p.)

Selected chapters

- Chapter 10 – Avian Orthopedics
- Chapter 11 – Approaches to the Caudal Coelom (Abdomen) of Birds
- Chapter 12 – Avian Reproductive Procedures
- Chapter 13 – Surgery of the Avian Gastrointestinal Tract
- Chapter 14 – Surgery of the Avian Respiratory System and Cranial Coelom

Campbell TW and Grant KR. Exotic Animal Hematology and Cytology, 5th edition, Wiley and Blackwell, Oxford, 2022 (188 p.)

Avian related topics only

Chitty J and Lierz M. BSAVA Manual of Raptors, Pigeons and Passerine Birds. British Small Animal Veterinary Association, Quedgeley, Gloucester, 2008. (256 p.)

Excluding the following Chapters

- Chapter 5 (Anatomy and Physiology)
- Chapter 6 (Transport and Handling)
- Chapter 7 (Examination, triage and hospitalization)
- Chapter 10 (Anaesthesia and Analgesia)
- Chapter 11 (Radiography)
- Chapter 12 (Advanced non-invasive imaging techniques)
- Chapter 14 (Soft Tissue Surgery)

Compendium of measures to control *Chlamydia psittaci* infection among humans (psittacosis) and pet birds (avian chlamydiosis) (Latest version; 21 p.)

Balsamo, Gary, et al. "Compendium of measures to control Chlamydia psittaci infection among humans (psittacosis) and pet birds (avian chlamydiosis), 2017." Journal of Avian Medicine and Surgery 31.3 (2017): 262-283.

Graham J, Doss G, Beaufre H. Part 2: Avian. In: Exotic Animal Emergency and Critical Care Medicine, John Wiley & Sons, Hoboken, 2021. (262 p.)

Harcourt Brown N and Chitty J. BSAVA Psittacine Birds, British Small Animal Veterinary Association, Quedgeley, Gloucester, 2005. (25 p.)

Selected chapters

- Chapter 14 Respiratory disease
- Chapter 15 Gastrointestinal disease
- Chapter 21 The sick small psittacid

Harrison G and Lightfoot T. Clinical Avian Medicine, Spix Publications, Palm Beach, Florida, 2005 (104 p.)

Selected Chapters

Volume II

- Chapter 21 Preventive Medicine and Screening (14 p.)
- Chapter 39 Management of Canaries, Finches and Mynahs (36 p.)

King AS and McLelland J. Their structure and function, 2nd edition, Ballière Tindall, London, 1984. (314 p.)

König HE, Korbel R, Liebig HJ. Chapter 15: The Eye. Avian Anatomy : Textbook and Colour Atlas, Second Edition. 5mPublishing, 2016. (27 p)
Ophthalmology chapter only (pp.216-242)

Krautwald-Junghanns M-A, Pees M, Reese S and Tully TN. Diagnostic Imaging of Exotic Pets, Schlütersche, Hannover, 2011 (141 p.)
Avian chapters only

Luescher AU. Manual of parrot behaviour. Blackwell publishing, Oxford, 2006. (105 p.)

Selected Chapters

Chapter 10 Hand-Rearing: Behavioral Impacts and Implications for Captive Parrot Welfare

Chapter 16 Clinical Evaluation of Psittacine Behavioural Disorders

Chapter 17 Diagnostic Workup of Suspected Behavioural Problems

Chapter 18 Aggressive Behaviour in Pet Birds

Chapter 19 Parrot Vocalization

Chapter 20 Parrots and Fear

Chapter 21 Problem Sexual Behaviours of Companion Parrots

Chapter 22 Mate Trauma

Chapter 23 Feather-Picking Disorder in Pet Birds

Chapter 24 Psittacine Behavioural Pharmacotherapy

Lumeij JT. Avian Clinical Biochemistry. In: Kaneko JJ, Harvey JW and Bruss ML (ed). Clinical Biochemistry of Domestic Animals, 6th edition, pp 839-872, Elsevier/Academic Press, Amsterdam/Boston, 2008. (33 p.)

Miller ER and Fowler ME, Saunders (W.B.) Zoo and Wild Animal Medicine, Co Ltd; 7th and 8th revised edition, 2012 and 2014 (resp. 97, and 150 p.)

Avian chapters only (Note: this lists 2 editions!)

- Volume 7:
 - o Section IV: Avian – Chapters 35 to 47
- Volume 8:
 - o Part III: Avian groups – Chapters 9 to 31
 - o Part V: General Zoo and Wild Animal Topics
 - Chapter 69 - Update on Iron Overload in Zoologic Species

Miller ER, Lamberski N, Calle P. Zoo and Wild Animal Medicine, Co Ltd; 9th and 10th revised edition, 2018 and 2022 (resp. 48 and 85 p.)

Avian chapters only (Note: this lists 2 editions!)

- Volume 9:
 - o Chapter 38 – Avian Influenza
 - o Section 12: Avian – Chapters 62 to 68
- Volume 10:
 - o Section 13: Avian - Chapters 68 to 79

Montiani-Ferreira F, Moore BA, Ben-Shlomo G. Wild and Exotic Animal Ophthalmology

Volume 1: Invertebrates, Fishes, Amphibians, Reptiles, and Birds. Springer Nature, Switzerland, 2022. (158 p.)

Selected chapters

- Introduction to Ophthalmology of Aves
- Ophthalmology of Psittaciformes: Parrots and Relatives
- Ophthalmology of Passeriformes
- Ophthalmology of Accipitriformes, Strigidae, and Falconidae: Hawks, Eagles, Vultures, Owls, Falcons, and Relatives

SE Orosz, PT Redig and Echols MS. Avian Surgical Anatomy and Orthopedic Management, 2nd edition.

Teton NewMedia, Florence, 2023. (438 p.)

Poland G, Raftery A. BSAVA Manual of Backyard Poultry Medicine and Surgery. British Small Animal Veterinary Association, Quedgeley, Gloucester, 2019 (376 p.)

Ritchie BW, Harrison GJ and Harrison LR. Avian Medicine: Principles and Application, Wingers Publishing, Lake Worth, Florida, 1994. (664 p.)

Selected sections and chapters

- Chapter 2 - The Avian Flock
- Chapter 3 - Nutrition
- Chapter 13 - Endoscopic examination and biopsy techniques
- Chapter 17 - Antimicrobial therapy
- Section 4, Chapters 19-25 and 27-30: Internal medicine (excludes chapter 26 Ophthalmology)
- Section 5, Chapters 31-38: Disease etiologies

Samour J. Avian Medicine, 3rd edition, Elsevier, London, 2016. (580 p.)

Excluding Chapters 7 (Anesthesia and Analgesia) and 13 (Systemic Diseases - Disorders of the Cardiovascular System)

Schmidt RE, Struthers JD and Phalen, DN. Pathology of Pet and Aviary Birds, 3rd edition, Wiley Blackwell, 2024. (768 p.)

Speer BL. Current Veterinary Therapy in Avian Medicine and Surgery. Elsevier, 2016. (928 p.)

Therio KA, McAloose D, St Leger J. Pathology of Wildlife and Zoo Animals. Elsevier, San Diego, 2018. (197 p.)

Avian chapters:

Chapter 27 - Sphenisciformes, Gaviiformes, Podicipediformes, Procellariiformes, and Pelecaniformes

Chapter 28 - Phoenicopteriformes

Chapter 29 - Anseriformes, Ciconiiformes, Charadriiformes, and Gruiformes

Chapter 30 - Birds of Prey

Chapter 31 - Galliformes and Columbiformes

Chapter 32 - Psittacines, Coliiformes, Musophagiformes, Cuculiformes

Chapter 33 - Passeriformes, Caprimulgiformes, Coraciiformes, Piciformes, Bucerotiformes, and Apodiformes

Tully TN and Shane SM. Ratite Management Medicine and Surgery, Krieger Publishing Company, Malabar, 1996. (177 p.)

West G, Heard DJ and Caulkett N (eds). Zoo Animal and Wildlife Immobilization and Anesthesia, Second Edition. Blackwell Publishing, Oxford, 2014. (45 p.)

Selected chapters:

Chapter 25 - Penguins

Chapter 26 - Ratites

Chapter 29 - Free-Living Waterfowl and Shorebirds

Whittow GC. Sturkie's Avian Physiology, 7th edition, Elsevier, Boston, 2021. (234 p.)

Selected chapters:

Chapter 19. Chapter 19 - Renal and extrarenal regulation of body fluid composition (32 p)

Chapter 20 - Respiration (39 p)

Chapter 21 - Gastrointestinal anatomy and physiology (42 p)

Chapter 35. Reproduction in the female (45 p)

Chapter 36. Reproduction in male birds (27 p)

Chapter 38. Stress ecophysiology (49 p)

Additional Reading List

The texts on this list are considered helpful resources to guide residents during their training and provide further in-depth information on selected topics. Although the books are highly recommended, residency supervisors will not be mandated to provide residents access to these specific books as exam questions will NOT be referenced from these texts.

Books (avian sections only)

Anderson Brown AF and Robbins GES. The New Incubation Book, World Pheasant Association, Millenium Edition, Fordingbridge, 2002.

Atkinson CT, Thomas NJ, Hunter B. Parasitic Diseases of Wild Birds. Wiley, Ames, Iowa, 2008.

Baumel JJ et al. Handbook of Avian Anatomy. Nomina Anatomica Avium, 2nd edition, Nuttall Ornithological Club, Cambridge, 1993.

Bird DM and Bildstein KL. Raptors: Research and Management Techniques, Raptor Research Foundation, Hancock House, Blaine, 2007.

Clements, J. F., Schulenberg, T. S., Iliff, M. J., Sullivan, B. L., Wood, C. L., & Roberson, D. The eBird/Clements checklist of birds of the world: Version 6.7, 2013. Available for free online at: <http://www.birds.cornell.edu/clementschecklist/downloadable-clements-checklist>.

Deeming DC. Avian Incubation: Behaviour, Environment and Evolution. Oxford University Press, 2001. <https://www.nhbs.com/avian-incubation-book>

Del Hoyo J, Elliot A and Christie D (eds). The Handbook of Birds of the World, Lynx Edicions, volume 1-15, Barcelona, Spain, 1992-2010.

Duerr RS and Gage LJ. Hand Rearing Birds, Second Edition, Wiley Blackwell, Hoboken, 2020

Harrison G and Lightfoot T. Clinical Avian Medicine, Spix Publications, Palm Beach, Florida, 2005 Volume 1 & I. Available online at: http://avianmedicine.net/publication_cat/clinical-avian-medicine/

Heatley JJ, Russell K. Exotic Animal Laboratory Diagnosis, Wiley, Hoboken, New Jersey, 2020.

Holmes M, Cockcroft P. Handbook of Veterinary Clinical Research. Wiley, 2008.

Kaspers B, Schat KA, Gobel TW, Vervelde L. Avian Immunology, 3rd edition. Elsevier, 2022.

Klasing, KC. Comparative Avian Nutrition. CABI Publishing, 1998.

Ritchie, B. Avian Viruses: Function and Control. Wingers Publishing, Lake Worth, Florida, 1995.

Schubot R, Clubb S and Clubb K. Psittacine Aviculture, Loxahatchee, Avicultural Breeding and Research Center, 1992.

Saif YM (ed). Diseases of Poultry, 14th edition, Iowa State Press, Ames, Iowa, 2019.

Samour J and Naldo J. Anatomical and Clinical Radiology of Birds of Prey, Elsevier, London, 2007.

Samour J, Hart M, Hawkey CM, Eds. Hawkey's Atlas of Wild and Exotic Animal Haematology, CRC Press, Boca Raton, 2021.

Scott DE, The Red-Tailed Hawk: a Surgical Dissection; Blurb, Incorporated, 2018; 45 pgs

Thomas NJ, Hunter DB and Atkinson CT. Infectious diseases of Wild Birds, Blackwell Publishing, Oxford, 2007.

Wernery R, et al. Colour Atlas of Falcon Medicine, Schlütersche, Hannover, 2004.

West G, Heard DJ and Caulkett N (eds). Zoo Animal and Wildlife Immobilization and Anesthesia, Second Edition. Blackwell Publishing, Oxford, 2014. Part III : Bird Anesthesia

Alpha - Common Diseases in Game birds

<http://apha.defra.gov.uk/documents/surveillance/diseases/gamebirds-common-diseases.pdf>

Self-Assessment Books, considered particularly useful during the preparation for the specialty exam

Altman RB and Forbes NA. Self Assessment Color Review of Avian Medicine, Manson Publishing, London, 1998.

Coles BH, Krautwald-Junghanns ME and Herman TJ. Self Assessment Picture Tests in Avian Medicine, Mosby, London, 1998.

Forbes NA, Sanchez-Migallon Guzman D, Avian Medicine and Surgery: Self-Assessment Color Review, Second Edition, CRC Press Taylor & Francis Group, LLC, 2017; 198 pgs.

Rosenthal KL, Forbes NA, Frye F L and Lewbart GA. Rapid Review of Exotic Animal Medicine and Husbandry, Manson Publishing, London, 2008. Section Birds pp 99 - 150

Samour J. Exotic Animal Medicine: Review and Test, Elsevier, Oxford, 2012. Section - Birds pp 109 – 300