**ACVECC Knowledge List 2025**

Required Reading List: The following list of references contain the material that residents/ fellows are expected to learn with retention and comprehension during their training. To facilitate this, a recent edition of appropriate resources from each section must be provided on site at each Residency Training Facility. Computer access to the common veterinary and human medical databases must also be available on site at each Residency Training Facility.

Large Animal Candidates sitting the examination in September 2025 are responsible for required journal articles from the calendar year 2020-2024, and book titles published during or before 2024, and the Large Animal Additional article list. Please note, that as a “large animal college” material and questions is not confined to equine-only topics, but may include other species including ruminants, porcines and camelids.

Small Animal Candidates sitting the examination in September 2024 are responsible for journal articles from calendar years 2021-2023, and book titles published during or before 2021, and the Small Animal Additional article list.

Both Large Animal (LA) and Small Animal (SA) candidates sitting the General MCQ examination in September 2024 are responsible for journal articles from calendar years 2021-2023.

**Reading List: Journals**

Articles germane to the field of Veterinary Emergency and Critical Care for the appropriate species should be reviewed from the following journals. Relevant articles from the **required** journal list are considered testable material for the ACVECC board examination. The **supplemental** article list provides candidates with a list of other publications in which useful articles may be published. Articles from the supplemental article list are not considered required knowledge for the board examination unless specifically listed separately on the Additional Article List.

**Required Journal List:\***

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| American Journal of Veterinary Research | Journal of the American Veterinary Medical Association | The New England Journal of Medicine |
| Critical Care Medicine | Journal of Veterinary Emergency and Critical Care | The Veterinary Journal |
| Equine Veterinary Journal (for LA Candidates) | Journal of Veterinary Internal Medicine | Veterinary Surgery (for LA Candidates) |
| Frontiers in Veterinary Science (Section of Emergency and Critical Care) |  |

**Supplemental Journal List:**

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| Australian Veterinary Journal | Journal of the American Animal Hospital Association | Veterinary Anaesthesia and Analgesia |
| The Canadian Veterinary Journal  | Journal of Feline Medicine and Surgery | Veterinary Clinics of North America: SA Practice (SA candidates) |
| Chest  | The Journal of Small Animal Practice | Veterinary Clinics of North America: Equine Practice (LA candidates) |
| Critical Care Clinics | The Journal of Trauma and Acute Care Surgery | Veterinary Clinical Pathology |
| Current Opinion in Critical Care | Journal of Veterinary Cardiology | Veterinary Radiology and Ultrasound |
| Intensive Care Medicine  | Shock | Veterinary Surgery (SA candidates) |

**Required Reading List: Textbooks**

Please note that expected knowledge is duplicated in many of these references: *it is not necessary or expected that residents will be familiar with every text listed.* However, several suitable texts are listed to ensure that residents have access to all pertinent information. For each knowledge category in the Required Reading List, at least **one** edition of a textbook that covers the appropriate species of interest should be available for study and reference. (LA – Large animal, SA – Small animal, LA/SA – All species, Human – Human beings). Titles highlighted in yellow have been newly added to the list.

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| **Anesthesia** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| LA | Equine Anesthesia: Monitoring and Emergency Therapy  | Muir WW, Hubbell JAE | 2009 | 2nd ed.  |
| LA/SA | Veterinary Anesthetic and Monitoring Equipment | Cooley KG, Johnson RA | 2018 | 1st ed. |
| **Cardiovascular**  |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| Human | Lange Cardiovascular Physiology 9 Ed  | Mohrman DE., Heller LJ.  | 2018 | 9th ed. |
| **Emergency / Critical Care** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| Human | Marino’s the ICU Book | Marino PL | 2014 | 4th ed. |
| LA | Equine Emergency and Critical Care Medicine | Southwood L, Wilkins PA (eds) | 2014 | 1st ed. |
| SA | Small Animal Critical Care Medicine | Silverstein D, Hopper K (eds) | 2015 (2014 e book) | 3rd ed. |
| **Fluid Therapy, Acid-Base, Electrolyte** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| LA/SA | Fluid, Electrolyte, and Acid-Base Disorders in Small Animal Practice | DiBartola SP (ed) | 2012 (2011 ebook) | 4th ed. |
|  | **Infectious Diseases**  |  |  |  |
| **Species** | **Title**  | **Author/Editor** | **Year** | **Edition**  |
| LA/SA | Vet Microbiology  | McVey S, Kennedy M, Wilkes R., Chengappa MM (eds0  | 2022 | 4th ed |
| LA/SA | Vet Immunology  | Tizard I (ed)  | 2024 | 11th ed  |
| **Internal Medicine** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| LA | Equine Internal Medicine | Reed S, Bayly W, Sellon D (eds) | 2018 (2017 e book) | 4th ed. |
| LA | Large Animal Internal Medicine | Smith BP, Van Metre DC, Pusterla N | 2020 | 6th ed. |
| **Medical Physiology** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| Human | Ganong’s Review of Medical Physiology | Barrett KE, Barman SM, Brooks JL, Yuan J. | 2019 | 26th ed. |
| Human | Guyton And Hall Textbook of Medical Physiology | Hall JE, Hall ME | 2021 | 14th ed. |
| Human | West’s Respiratory Physiology – The Essentials  | West JB, Luks AM | 2021 | 11th ed. |
| **Ophthalmology** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| LA | Equine Ophthalmology | Gilger B | 2022 | 4th ed. |
| **Surgery** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| LA | Equine Surgery | Auer JA, Stick JA, Kummerle JM, Prange T | 2019 | 5th ed. |
| LA | Farm Animal Surgery  | Fubini SL, Ducharme NG | 2017 | 2nd ed. |

**Supplemental Reading List: Textbooks**

The following are supplemental reading materials that can also be reviewed for the species of interest.

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| **Anesthesia** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| ~~LA~~ | ~~Equine Anesthesia: Monitoring and Emergency Therapy~~ | ~~Muir WW, Hubbell JAE~~ | ~~2009~~ | ~~2~~~~nd~~ ~~ed.~~ |
| LA/SA | Handbook of Veterinary Anesthesia | Muir WW, Hubbell JAE | 2012 | 5th ed. |
| LA/SA | Veterinary Anesthesia and Analgesia | Grimm KA, Lamont LA, Tranquilli WJ, Greene SA, Robertson SA (eds) | 2015 | 5th ed. |
| LA/SA | Handbook of Veterinary Pain Management | Gaynor JS, Muir WW | 2014 | 3rd ed. |
| SA | Small Animal Anesthesia Techniques | Shelby AM, McKune C | 2014 |  |
| SA | Small Animal Regional Anesthesia and Analgesia | Campoy L, Read M | 2013 |  |
| LA/SA | Veterinary Anaesthesia: Principles to Practice | Dugdale A, Beaumont G | 2020 | 2nd ed. |
| SA | Canine and Feline Anesthesia and Co-Existing Disease | Snyder LBC, Johnson RA | 2014 |  |
| **Cardiovascular**  |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| SA | Cardiovascular Disease in Small Animal Medicine | Ware, W | 2007 | 1st ed. |
| LA | Cardiology of the Horse | Marr C, Bowen M | 2011 | 2nd ed. |
| SA | Manual of Canine and Feline Cardiology | Smith FWK, Tilley LP, Oyama M, Sleeper MM | 2015 | 5th ed. |
| Human | Hemodynamic Monitoring: Evolving techniques and clinical practice | Lough ME | 2015 | 1st ed. |
| Human | Cardiovascular Physiology | Mohrman DE Heller LJ | 2018 | 9th ed. |
| SA | Feline Cardiology | Cote E, MacDonald KA, Meurs KM, Sleeper MM | 2011 | 1st ed. |
| SA | Small Animal ECGs: An Introductory Guide | Martin M | 2015 | 3rd ed. |
| SA | ECG Interpretation in the Critically Ill Dog and Cat | Day TK | 2005 | 1st ed. |
| **Clinical Pathology** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| LA/SA | Duncan and Prasse’s Veterinary Laboratory Medicine: Clinical Pathology | Latimer KS (ed) | 2011 | 5th ed. |
| LA/SA | Fundamentals of Veterinary Clinical Pathology | Stockham SL, Scott MA (eds) | 2008 | 2nd ed. |
| SA | Small Animal Clinical Diagnosis by Laboratory Methods | Willard MD, Tvedten H (eds) | 2012 | 5th ed. |
| Human | Hemostasis and thrombosis. Basic principles and clinical practice | Marder VJ, Aird WC, Bennett JS, et al (eds) | 2012 | 6th ed. |
| **Emergency / Critical Care** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| Human | Critical Care Medicine: Principles of Diagnosis and Management in the Adult | Parrillo J, Dellinger RP (eds) | 2019 | 5th ed. |
| Human | Textbook of Critical Care | Vincent JL, Abraham E, Kochanek P, Moore FA, Fink MP (eds) | 2017 | 7th ed. |
| LA | The Equine Hospital Manual | Corley K, Stephen J (eds) | 2009 | 1st ed. |
| LA | Equine Emergencies: Treatment and Procedures | Orsini JA, Divers T (eds) | 2014 | 4th ed. |
| SA | Advanced Monitoring and Procedures for Small Animal Emergency and Critical Care | Burkett Creedon JM, Davis H (eds) | 2012 | 1st ed. |
| SA | Textbook of Small Animal Emergency Medicine | Drobatz KJ, Hopper K, Rozanski E, Silverstein DC (eds) | 2019 | 1st ed. |
| SA | Veterinary Emergency and Critical Care Procedures | Hackett TB, Mazzaferro EM | 2012 | 2nd ed. |
| SA | Manual of Small Animal Emergency and Critical Care Medicine | Macintire DK, Drobatz DJ, Haskins SC, et al | 2012 | 2nd ed. |
| SA | Monitoring and Intervention for the Critically Ill Small Animal (The Rule of 20) | Kirby R, Linklater A | 2016 |  |
| SA | Veterinary Emergency and Critical Care Manual | Mathews KA | 2018 | 3rd ed. |
| ~~SA~~ | ~~Small Animal Critical Care Medicine~~ | ~~Silverstein D, Hopper K (eds)~~ | ~~2015~~ | ~~2~~~~nd~~ ~~ed.~~ |
| SA | Critical Care – Quick Look Series | Murtaugh R | 2002 | 2nd ed. |
| SA | Handbook of Canine and Feline Emergency Protocols | McMichael M | 2014 | 2nd ed. |
| **Fluid Therapy, Acid-Base, Electrolyte** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| Human | Fluid, Electrolyte, and Acid-Base Physiology: A Problem-Based Approach | Halperin ML, Kamel KS | 2017 | 5th ed. |
| Human | Clinical Physiology of Acid-Base and Electrolyte Disorders | Rose BD, Post T, Stokes | 2000 | 5th ed. |
| LA | Equine Fluid Therapy | Fielding CL, Magdesian KG | 2015 | 1st ed |
| Human | Plumer's Principles and Practice of Infusion Therapy | Weinstein SM, Hagle ME | 2014 | 9th ed. |
| **Imaging** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| LA/SA | Textbook of Veterinary Diagnostic Radiology | Thrall DE (ed) | 2018 | 7th ed. |
| SA | Focused Ultrasound Techniques for the Small Animal Practitioner | Lisciandro GR (ed) | 2014 | 1st ed. |
| LA/SA | Antimicrobial Therapy in Veterinary Medicine | Giguere S, Prescott JF, Dowling PM (eds) | 2013 | 5th ed. |
| **Infectious Disease** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| LA | Equine Infectious Diseases | Sellon DC, Long M (eds) | 2013 | 2nd ed. |
| LA | Infectious Diseases of the Horse | Van de Kolk JH, Veldhuis Kroeze EJB (eds) | 2013 |   |
| SA | Canine and Feline Infectious Diseases | Sykes JE | 2014 | 1st ed. |
| SA | Infectious Diseases of the Dog And Cat | Greene CE (ed) | 2011 | 4th ed. |
| LA/SA | Antimicrobial Therapy in Veterinary Medicine | Giguere S, Prescott JF, Dowling PM (eds) | 2013 | 5th ed. |
| **Internal Medicine** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| LA | Robinson’s Current Therapy in Equine Medicine  | Sprayberry KA and Robinson NE | 2015 | 7th ed |
| SA | Textbook of Veterinary Internal Medicine | Ettinger SJ, Feldman EC, Cote E. (eds) | 2017 | 8th ed. |
| SA | Clinical Canine and Feline Respiratory Medicine  | Johnson LR | 2020 | 2nd ed. |
| SA | Respiratory Disease in Dogs and Cats | King LG (ed) | 2004 | 1st ed. |
| SA | Canine and Feline Gastroenterology | Washabau RJ, Day MJ | 2012 | 1st ed. |
| SA | Canine and Feline Endocrinology | Feldman EC, Nelson RW | 2015 | 4th ed. |
| Human | Vander’s Renal Physiology | Eaton DC, Pooler JP | 2018 | 9th ed. |
| Human | Renal Physiology | Koeppen BM, Stanton BA | 2018 | 6th ed. |
| Human | Renal Pathophysiology | Rennke HG, Denker BM | 2019 | 5th ed. |
| Human | Brenner & Rector’s The Kidney | Yu AS, Chertow GM, Luyckx V, Marsden PA, Skorecki K, Taal MW. | 2019 | 11th ed. |
| SA | Kirk’s Current Veterinary Therapy | Bonagura JD, Twedt DC (eds) | 2008 | 14th ed. |
| SA | Kirk’s Current Veterinary Therapy | Bonagura JD, Twedt DC (eds) | 2014 | 15th ed. |
| SA | Saunders Solutions in Veterinary Practice: Small Animal Gastroenterology | Chandler M | 2011 | 1st ed.  |
| SA | Small Animal Gastroenterology | Steiner J (ed) | 2006 | 1st ed. |
| SA | BSAVA Manual of Endocrinology | Mooney C, Peterson M | 2012 | 4th ed. |
| **Hematology and Transfusion Medicine** |
| LA/SA | Manual of Veterinary Transfusion Medicine and Blood Banking | Yagi K, Holowaychuk M | 2016 |  |
| **Mechanical Ventilation** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| Human | Essentials of Mechanical Ventilation  | Hess D, Kacmarek R | 2018 | 4th ed |
| Human | Mechanical Ventilation | MacIntyre NR, Branson RD | 2008 | 2nd ed. |
| Human | Mechanical Ventilation: Physiological and Clinical Applications | Cairo JM (ed) | 2019 | 7th ed. |
| Human | Principles and Practice of Mechanical Ventilation | Tobin MJ (ed) | 2012 | 3rd ed. |
| Human | Management of the Mechanically Ventilated Patient | Pierce LNB | 2006 | 2nd ed. |
| Human | Rapid Interpretation of Ventilator Waveforms | Waugh JB, Deshpande VM, Brown MK, Harwood R | 2006 | 2nd ed. |
| **Medical Physiology** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| ~~Human~~ | ~~Guyton And Hall Textbook of Medical Physiology~~ | ~~Hall JE, Hall ME~~ | ~~2020~~ | ~~14~~~~th~~ ~~ed.~~ |
| Human | Berne & Levy Principles of Physiology | Koeppen BM, Stanton BA | 2017 | 7th ed. |
| LA/SA | Cunningham’s Textbook of Veterinary Physiology | Klein BG (ed) | 2019 | 6th ed. |
| Human | Nunn’s Applied Respiratory Physiology | Lumb AB | 2018 | 8th ed. |
| Human | Pulmonary Pathophysiology: The Essentials | West JB | 2017 | 9th ed. |
| LA/SA | Review of Veterinary Physiology | Engelking LR | 2002 | 1st ed. |
| Human | Physiology | Costanzo LS | 2017 | 6th ed. |
| **Neurology** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| LA | Equine Neurology | Furr M, Reed S (eds) | 2015 | 2nd ed. |
| LA/SA | Veterinary Neuroanatomy and Clinical Neurology | de Lahunta A, Glass EN, Kent M | 2014 | 4th ed.  |
| LA/SA | Handbook of Veterinary Neurology | Lorenz MD, Coates J, Kent M | 2011 | 5th ed. |
| SA | A Practical Guide to Canine and Feline Neurology | Dewey CW, da Costa RC (eds) | 2015 | 3rd ed. |
| SA | Small Animal Neurological Emergencies | Platt S, Garosi L (eds) | 2012 |   |
| SA | BSAVA Manual of Canine and Feline Neurology | Platt S, Olby N | 2013 | 4th ed. |
| LA/SA | Veterinary Neuroanatomy and Clinical Neurology | de Lahunta A, Glass EN | 2008 | 3rd ed. |
| SA | Fundamentals of Veterinary Clinical Neurology | Bagley RS | 2005 | 1st ed. |
| **Nutrition** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| SA | Nutritional Management of Hospitalized Small Animals | Chan DL (ed) | 2015 | 1st ed. |
| **Oncology** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| SA | Withrow and MacEwen’s Small Animal Clinical Oncology | Thamm D, Vail D, Liptak J (Eds) | 2019 | 6th ed. |
| **Ophthalmology** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| LA/SA | Essentials of Veterinary Ophthalmology | Gelatt, KN (ed) | 2014 | 3rd ed. |
| LA/SA | Slatter’s Fundamentals of Veterinary Ophthalmology | Maggs D, Miller P | 2017 | 6th ed. |
| **Pediatrics** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| SA | Small Animal Pediatrics: The First 12 Months of Life | Peterson ME, Kutzler, M (eds) | 2011 | 1st ed. |
| SA | BSAVA Manual of Canine and Feline Reproduction and Neonatology | England G, von Heimendahl A | 2010 | 2nd ed. |
| SA | Canine Reproduction and Neonatology | Greer ML | 2014 | 1st ed. |
| **Pharmacology** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| LA | Equine Pharmacology | Cole C, Bentz B | 2014 | 1st ed.  |
| LA/SA | Veterinary Pharmacology and Therapeutics | Riviere JE Papich MG | 2018 | 10th ed. |
| SA | Small Animal Clinical Pharmacology and Therapeutics | Boothe, DM (ed) | 2012 | 2nd ed. |
| SA | Small Animal Clinical Pharmacology | Maddison JE, Page S, Church D | 2008 | 2nd ed. |
| Human | Drugs for the Heart | Opie LH, Gersh BH (eds) | 2013 | 8th ed. |
| LA | Equine Clinical Pharmacology | Bertone J, Horspool LJI | 2004 | 1st ed. |
| **Surgery** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| ~~LA~~ | ~~Equine Surgery~~ | ~~Auer JA, Stick JA, Kummerle JS, Prange T~~  | ~~2019~~ | ~~5~~~~th~~ ~~ed.~~ |
| LA | Equine Fracture Repair | Nixon AJ | 2020 | 2nd ed. |
| SA | Small Animal Surgery | Fossum TW (ed) | 2018 | 5th ed. |
| SA | Small Animal Surgical Emergencies | Aronson LR | 2016 | 1st ed. |
| SA | Veterinary Surgery: Small Animal | Tobias KM, Johnston SA | 2017 | 2nd ed. |
| SA | Textbook of Small Animal Surgery | Slatter D (ed) | 2003 | 3rd ed. |
| SA | Complications in Small Animal Surgery | Griffon DJ, Hamaide A (eds) | 2016 | 1st ed.  |
| **Toxicology** |
| **Species** | **Title** | **Author/Editor** | **Year** | **Edition** |
| LA/SA | Veterinary Toxicology: Basic and Clinical Principles | Gupta RC (ed) | 2018 | 3rd ed. |
| LA/SA | Clinical Veterinary Toxicology | Plumlee K | 2004 |   |
| SA | Small Animal Toxicology | Peterson ME, Talcott MA (eds) | 2013 | 3rd ed. |
| SA | Blackwell’s Five Minute Veterinary Consult Clinical Companion: Small Animal Toxicology | Hovda L, Brutlag A, Poppenga RH, Peterson K. | 2016 | 2nd Edition |