

-ACVECC Knowledge List 2024

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 2024 are responsible for required journal articles from the calendar year 2019-2023, and book titles published during or before 2023, 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 2023 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, and the journal articles that appear in both the Small Animal and Large Animal additional article lists.

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:*

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:

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
	Shock	Veterinary Surgery (SA candidates)
Intensive Care Medicine		

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.

Anesthesia				
Species	Title	Author/Editor	Year	Edition
LA	Equine Anesthesia: Monitoring and Emergency Therapy	Muir WW, Hubbell JAE	2009	2 nd ed.
LA/SA	Veterinary Anesthetic and Monitoring Equipment	Cooley KG, Johnson RA	2018	1 st ed.
Cardiovascular				
Species	Title	Author/Editor	Year	Edition
Human	Lange Cardiovascular Physiology 9 Ed	Mohrman DE., Heller LJ.	2018	9 th ed.
LA/SA	Cardiovascular Disease in Companion Animals: Dog, Cat and Horse	Ware, WA; Bonagura JD	2023	2 nd ed
Emergency / Critical Care				
Species	Title	Author/Editor	Year	Edition
Human	Marino's the ICU Book	Marino PL	2014	4 th ed.
LA	Equine Emergency and Critical Care Medicine	Southwood L, Wilkins PA (eds)	2014	1 st ed.
SA	Small Animal Critical Care Medicine	Silverstein D, Hopper K (eds)	2023	3 rd 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)	4 th ed.
Internal Medicine				
Species	Title	Author/Editor	Year	Edition
LA	Equine Internal Medicine	Reed S, Bayly W, Sellon D (eds)	2018 (2017 e book)	4 th ed.
LA	Large Animal Internal Medicine	Smith BP, Van Metre DC, Pusterla N	2020	6 th 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	26 th ed.
Human	Guyton And Hall Textbook of Medical Physiology	Hall JE, Hall ME	2021	14 th ed.
Human	West's Respiratory Physiology – The Essentials	West JB, Luks AM	2021	11 th ed.
Ophthalmology				
Species	Title	Author/Editor	Year	Edition

LA	Equine Ophthalmology	Gilger B	2022	4 th ed.	
Surgery					
Species	Title	Author/Editor	Year	Edition	
LA	Equine Surgery	Auer JA, Stick JA, Kummerle JM, Prange T	2019	5 th ed.	
LA	Farm Animal Surgery	Fubini SL, Ducharme NG	2017	2 nd ed.	

Supplemental Reading List: Textbooks

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

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	5 th ed.
LA/SA	Veterinary Anesthesia and Analgesia	Grimm KA, Lamont LA, Tranquilli WJ, Greene SA, Robertson SA (eds)	2015	5 th ed.
LA/SA	Handbook of Veterinary Pain Management	Gaynor JS, Muir WW	2014	3 rd 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	2 nd 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	1 st ed.
LA	Cardiology of the Horse	Marr C, Bowen M	2011	2 nd ed.
SA	Manual of Canine and Feline Cardiology	Smith FWK, Tilley LP, Oyama M, Sleeper MM	2015	5 th ed.
Human	Hemodynamic Monitoring: Evolving techniques and clinical practice	Lough ME	2015	1 st ed.
Human	Cardiovascular Physiology	Mohrman DE Heller LJ	2018	9 th ed.
SA	Feline Cardiology	Cote E, MacDonald KA, Meurs KM, Sleeper MM	2011	1 st ed.
SA	Small Animal ECGs: An Introductory Guide	Martin M	2015	3 rd ed.
SA	ECG Interpretation in the Critically Ill Dog and Cat	Day TK	2005	1 st ed.
Clinical Pathology				
Species	Title	Author/Editor	Year	Edition
LA/SA	Duncan and Prasse's Veterinary Laboratory Medicine: Clinical Pathology	Latimer KS (ed)	2011	5 th ed.
LA/SA	Fundamentals of Veterinary Clinical Pathology	Stockham SL, Scott MA (eds)	2008	2 nd ed.
SA	Small Animal Clinical Diagnosis by Laboratory Methods	Willard MD, Tvedten H (eds)	2012	5 th ed.
Human	Hemostasis and thrombosis. Basic principles and clinical practice	Marder VJ, Aird WC, Bennett JS, et al (eds)	2012	6 th 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	5 th ed.
Human	Textbook of Critical Care	Vincent JL, Abraham E, Kochanek P, Moore FA, Fink MP (eds)	2017	7 th ed.
LA	The Equine Hospital Manual	Corley K, Stephen J (eds)	2009	1 st ed.
LA	Equine Emergencies: Treatment and Procedures	Orsini JA, Divers T (eds)	2014	4 th ed.
SA	Advanced Monitoring and Procedures for Small Animal Emergency and Critical Care	Burkett Creedon JM, Davis H (eds)	2012	1 st ed.
SA	Textbook of Small Animal Emergency Medicine	Drobatz KJ, Hopper K, Rozanski E, Silverstein DC (eds)	2019	1 st ed.
SA	Veterinary Emergency and Critical Care Procedures	Hackett TB, Mazzaferro EM	2012	2 nd ed.

SA	Manual of Small Animal Emergency and Critical Care Medicine	Macintire DK, Drobatz DJ, Haskins SC, et al	2012	2 nd 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	3 rd ed.
SA	Small Animal Critical Care Medicine	Silverstein D, Hopper K (eds)	2015	2nd ed.
SA	Critical Care – Quick Look Series	Murtaugh R	2002	2 nd ed.
SA	Handbook of Canine and Feline Emergency Protocols	McMichael M	2014	2 nd 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	5 th ed.
Human	Clinical Physiology of Acid-Base and Electrolyte Disorders	Rose BD, Post T, Stokes	2000	5 th ed.
LA	Equine Fluid Therapy	Fielding CL, Magdesian KG	2015	1 st ed
Human	Plumer's Principles and Practice of Infusion Therapy	Weinstein SM, Hagle ME	2014	9 th ed.
Imaging				
Species	Title	Author/Editor	Year	Edition
LA/SA	Textbook of Veterinary Diagnostic Radiology	Thrall DE (ed)	2018	7 th ed.
SA	Focused Ultrasound Techniques for the Small Animal Practitioner	Lisciandro GR (ed)	2014	1 st ed.
LA/SA	Antimicrobial Therapy in Veterinary Medicine	Giguere S, Prescott JF, Dowling PM (eds)	2013	5 th ed.
Infectious Disease				
Species	Title	Author/Editor	Year	Edition
LA	Equine Infectious Diseases	Sellon DC, Long M (eds)	2013	2 nd 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	1 st ed.
SA	Infectious Diseases of the Dog And Cat	Greene CE (ed)	2011	4 th ed.
LA/SA	Antimicrobial Therapy in Veterinary Medicine	Giguere S, Prescott JF, Dowling PM (eds)	2013	5 th ed.
Internal Medicine				
Species	Title	Author/Editor	Year	Edition
LA	Robinson's Current Therapy in Equine Medicine	Sprayberry KA and Robinson NE	2015	7 th ed
SA	Textbook of Veterinary Internal Medicine	Ettinger SJ, Feldman EC, Cote E. (eds)	2017	8 th ed.
SA	Clinical Canine and Feline Respiratory Medicine	Johnson LR	2020	2 nd ed.
SA	Respiratory Disease in Dogs and Cats	King LG (ed)	2004	1 st ed.
SA	Canine and Feline Gastroenterology	Washabau RJ, Day MJ	2012	1 st ed.
SA	Canine and Feline Endocrinology	Feldman EC, Nelson RW	2015	4 th ed.
Human	Vander's Renal Physiology	Eaton DC, Pooler JP	2018	9 th ed.
Human	Renal Physiology	Koeppen BM, Stanton BA	2018	6 th ed.
Human	Renal Pathophysiology	Rennke HG, Denker BM	2019	5 th ed.
Human	Brenner & Rector's The Kidney	Yu AS, Chertow GM, Luyckx V, Marsden PA, Skorecki K, Taal MW.	2019	11 th ed.
SA	Kirk's Current Veterinary Therapy	Bonagura JD, Twedt DC (eds)	2008	14 th ed.

SA	Kirk's Current Veterinary Therapy	Bonagura JD, Twedt DC (eds)	2014	15 th ed.
SA	Saunders Solutions in Veterinary Practice: Small Animal Gastroenterology	Chandler M	2011	1 st ed.
SA	Small Animal Gastroenterology	Steiner J (ed)	2006	1 st ed.
SA	BSAVA Manual of Endocrinology	Mooney C, Peterson M	2012	4 th 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	4 th ed
Human	Mechanical Ventilation	MacIntyre NR, Branson RD	2008	2 nd ed.
Human	Mechanical Ventilation: Physiological and Clinical Applications	Cairo JM (ed)	2019	7 th ed.
Human	Principles and Practice of Mechanical Ventilation	Tobin MJ (ed)	2012	3 rd ed.
Human	Management of the Mechanically Ventilated Patient	Pierce LNB	2006	2 nd ed.
Human	Rapid Interpretation of Ventilator Waveforms	Waugh JB, Deshpande VM, Brown MK, Harwood R	2006	2 nd ed.
Medical Physiology				
Species	Title	Author/Editor	Year	Edition
Human	Guyton And Hall Textbook of Medical Physiology	Hall JE, Hall ME	2020	14th ed.
Human	Berne & Levy Principles of Physiology	Koeppen BM, Stanton BA	2017	7 th ed.
LA/SA	Cunningham's Textbook of Veterinary Physiology	Klein BG (ed)	2019	6 th ed.
Human	Nunn's Applied Respiratory Physiology	Lumb AB	2018	8 th ed.
Human	Pulmonary Pathophysiology: The Essentials	West JB	2017	9 th ed.
LA/SA	Review of Veterinary Physiology	Engelking LR	2002	1 st ed.
Human	Physiology	Costanzo LS	2017	6 th ed.
Neurology				
Species	Title	Author/Editor	Year	Edition
LA	Equine Neurology	Furr M, Reed S (eds)	2015	2 nd ed.
LA/SA	Veterinary Neuroanatomy and Clinical Neurology	de Lahunta A, Glass EN, Kent M	2014	4 th ed.
LA/SA	Handbook of Veterinary Neurology	Lorenz MD, Coates J, Kent M	2011	5 th ed.
SA	A Practical Guide to Canine and Feline Neurology	Dewey CW, da Costa RC (eds)	2015	3 rd 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	4 th ed.
LA/SA	Veterinary Neuroanatomy and Clinical Neurology	de Lahunta A, Glass EN	2008	3 rd ed.
SA	Fundamentals of Veterinary Clinical Neurology	Bagley RS	2005	1 st ed.
Nutrition				
Species	Title	Author/Editor	Year	Edition
SA	Nutritional Management of Hospitalized Small Animals	Chan DL (ed)	2015	1 st 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	6 th ed.
Ophthalmology				
Species	Title	Author/Editor	Year	Edition
LA/SA	Essentials of Veterinary Ophthalmology	Gelatt, KN (ed)	2014	3 rd ed.
LA/SA	Slatter's Fundamentals of Veterinary Ophthalmology	Maggs D, Miller P	2017	6 th ed.
Pediatrics				
Species	Title	Author/Editor	Year	Edition
SA	Small Animal Pediatrics: The First 12 Months of Life	Peterson ME, Kutzler, M (eds)	2011	1 st ed.
SA	BSAVA Manual of Canine and Feline Reproduction and Neonatology	England G, von Heimendahl A	2010	2 nd ed.
SA	Canine Reproduction and Neonatology	Greer ML	2014	1 st ed.
Pharmacology				
Species	Title	Author/Editor	Year	Edition
LA	Equine Pharmacology	Cole C, Bentz B	2014	1 st ed.
LA/SA	Veterinary Pharmacology and Therapeutics	Riviere JE Papich MG	2018	10 th ed.
SA	Small Animal Clinical Pharmacology and Therapeutics	Boothe, DM (ed)	2012	2 nd ed.
SA	Small Animal Clinical Pharmacology	Maddison JE, Page S, Church D	2008	2 nd ed.
Human	Drugs for the Heart	Opie LH, Gersh BH (eds)	2013	8 th ed.
LA	Equine Clinical Pharmacology	Bertone J, Horspool LJI	2004	1 st ed.
Surgery				
Species	Title	Author/Editor	Year	Edition
LA	Equine Surgery	Auer JA, Stiek JA, Kummerle JS, Prange T	2019	5th ed.
LA	Equine Fracture Repair	Nixon AJ	2020	2 nd ed.
SA	Small Animal Surgery	Fossum TW (ed)	2018	5 th ed.
SA	Small Animal Surgical Emergencies	Aronson LR	2016	1 st ed.
SA	Veterinary Surgery: Small Animal	Tobias KM, Johnston SA	2017	2 nd ed.
SA	Textbook of Small Animal Surgery	Slatter D (ed)	2003	3 rd ed.
SA	Complications in Small Animal Surgery	Griffon DJ, Hamaide A (eds)	2016	1 st ed.
Toxicology				
Species	Title	Author/Editor	Year	Edition
LA/SA	Veterinary Toxicology: Basic and Clinical Principles	Gupta RC (ed)	2018	3 rd ed.
LA/SA	Clinical Veterinary Toxicology	Plumlee K	2004	
SA	Small Animal Toxicology	Peterson ME, Talcott MA (eds)	2013	3 rd ed.
SA	Blackwell's Five Minute Veterinary Consult Clinical Companion: Small Animal Toxicology	Hovda L, Brutlag A, Poppenga RH, Peterson K.	2016	2 nd Edition