

2023 PHASE I EXAMINATION READING LIST

The following references and books are suggested reading in preparation for the 2023 Phase I examination. Other textbooks and current references may be pertinent. Page numbers refer to print textbooks. Digital versions may have different page numbers.

SELECTED REFERENCES FOR SMALL ANIMAL SURGERY

- 1) Johnston S, Tobias K. *Veterinary Surgery: Small Animal*, Elsevier, (2nd Ed), 2018*.
- 2) Guyton AC, Hall JE. *Textbook of Medical Physiology*, W.B. Saunders Co., (14th Ed), 2020. *Chapters 4-16, 20, 22, 25, 30-31, 37-43, 50, 61, 63-65, 71*
- 3) Lumb and Jones. *Veterinary Anesthesia and Analgesia*, Blackwell Publishing, (5th Ed), 2015. *Chapters 1-36, 44-45, 53-57.*
- 4) Boothe DM. *Small Animal Clinical Pharmacology and Therapeutics*, (2nd Ed), Elsevier, 2011. *Chapter 6 (Principles of Antimicrobial Therapy), Chapter 7 (Antimicrobial Drugs), Chapter 19 (GI Physiology), and Chapter 29 (Anti-Inflammatory Drugs).*
- 5) Johnson AL, Houlton JEF, Vannini R. *AO Principles of Fracture Management in the Dog and Cat*, AO Publishing, 2005. *Chapters 1, 2, 3, 20, 27.*

Knowledge of basic and applied anatomy is assumed and should be reviewed in an appropriate text. For example, Hermanson JW, Evans HE, de LaHunta A. *Miller's Anatomy of the Dog*, Elsevier, (5th Ed), 2019.

*Phase I portions of Johnston and Tobias. Please note that if no page numbers are given, the entire chapter is included.

| <i>Veterinary Surgery: Small Animal, 2nd Edition, Johnston and Tobias, 2018</i> | | |
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| Chapter | Title | Pages (full chapter unless specific pages are noted) |
| <i>Surgical Biology</i> | | |
| Chapter 1 | Inflammatory Response | |
| Chapter 2 | Molecular and Cellular Biology: Genomics | |
| Chapter 3 | Stem Cells and Regenerative Therapy | |
| Chapter 4 | Platelet Rich Plasma and Autologous Conditioned Sera | |
| Chapter 5 | Fluid Therapy | |
| Chapter 6 | Shock | |
| Chapter 7 | Bleeding and Hemostasis | |
| Chapter 8 | Metabolism and Nutritional Needs of Surgical Patients | |

| Chapter | Title | Pages (full chapter unless specific pages are noted) |
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| Chapter 9 | Wound Healing | |
| Chapter 10 | Wound Infections and Antimicrobial Use | |
| <i>Surgical Methods and Perioperative Care</i> | | |
| Chapter 11 | Sterilization | |
| Chapter 12 | Instrumentation | |
| Chapter 13 | The Operating Room | |
| Chapter 14 | Monitoring for Surgical Infection | |
| Chapter 15 | Principles and Use of Energy Sources in Small Animal Surgery: Electrosurgery and Laser Applications | |
| Chapter 16 | Suture Material, Tissue Staplers, Ligation Devices, and Closure Methods | |
| Chapter 17 | Instrument and Tissue Handling Techniques | |
| Chapter 18 | Surgical Hemostasis | |
| Chapter 19 | Bandages and Drains | |
| Chapter 20 | Biopsy General Principles | |
| Chapter 21 | Anesthesia Principles and Monitoring | |
| Chapter 22 | Anesthetic Practice for Existing Conditions | |
| Chapter 23 | Fundamentals of Interventional Radiology and Interventional Endoscopy | |
| Chapter 24 | Fundamentals of Laparoscopy and Thoracoscopy | |
| Chapter 25 | Introduction to Oncologic Surgery for the General Surgeon | |
| <i>Neurosurgery</i> | | |
| Chapter 26 | Neurologic Examination and Neuroanatomic Diagnosis | |
| Chapter 28 | Imaging of the Neurologic System | |
| Chapter 29 | Pathogenesis and Physiology of Central Nervous System Disease and Injury | |

| Chapter | Title | Pages (full chapter unless specific pages are noted) |
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| <i>Musculoskeletal System</i> | | |
| Chapter 38 | Tissues of the Musculoskeletal System | |
| Chapter 39 | Bone Biomechanics and Fracture Biology | |
| Chapter 40 | Open Fractures | |
| Chapter 41 | Internal Fracture Fixation | |
| Chapter 42 | External Skeletal Fixation | |
| Chapter 43 | Overview of Minimally Invasive Osteosynthesis Principles | |
| Chapter 44 | Bandaging, External Coaptation, and External Devices for Companion Animals | |
| Chapter 45 | Delayed Unions, Non-unions, and Malunions | |
| Chapter 47 | Osteomyelitis and Implant-Associated Infections | |
| Chapter 48 | Bone Grafts and Substitutes | |
| Chapter 68 | Arthritis | |
| Chapter 70 | Muscle and Tendon Disorders | 1316-1317 (stop at general principles on treatment) 1319-1321 (stop at specific tendon problems) |
| Chapter 71 | Arthroscopy | 1323-1331 (stop at basic techniques of small animal arthroscopy) |
| Chapter 73 | Osteochondrosis | 1372-1380 (stop at principles of osteochondrosis diagnosis) |
| Chapter 74 | Gait Analysis | |

| Chapter | Title | Pages (full chapter unless specific pages are noted) |
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| <i>Skin and Reconstruction</i> | | |
| Chapter 75 | Primary Wound Closure | |
| Chapter 76 | Open Wounds | |
| Chapter 81 | Burns | 1495-1500 (stop at burn treatment) |
| <i>Abdomen</i> | | |
| Chapter 83 | Spleen | 1551-1557 (stop at surgical techniques) |
| Chapter 84 | Abdominal Wall Reconstruction and Hernias | 1564-1567 (stop at principles of abdominal hernia repair) |
| Chapter 85 | Diaphragmatic Hernias | 1592-1593 (stop at surgical approaches) |
| Chapter 86 | Peritoneum and Retroperitoneum | 1603-1615 (stop at pathophysiology) |
| <i>Digestive System</i> | | |
| Chapter 87 | Soft Tissues of the Oral Cavity | 1637-1641 (stop at general considerations) |
| Chapter 88 | Salivary Glands | 1653-1655 (stop at nonsurgical salivary gland disease) |
| Chapter 89 | Mandibulectomy and Maxillectomy page | 1663-1664 (stop at canine oral tumors) |
| Chapter 90 | Esophagus | 1677-1681 (stop at surgical approaches to the esophagus) |
| Chapter 91 | Stomach | 1700-1704 (stop at general surgical principles) |
| Chapter 92 | Small Intestine | 1730-1740 (stop at surgical procedures) |

| Chapter | Title | Pages (full chapter unless specific pages are noted) |
|----------------------------------|---|--|
| Chapter 93 | Colon | 1761-1768 (stop at techniques for colonic wound closure) |
| Chapter 94 | Rectum, Anus, and Perineum | 1783-1787 (stop at surgical approaches) |
| Chapter 95 | Liver and Biliary System | 1828-1834 (stop at hepatobiliary imaging) |
| Chapter 96 | Hepatic Vascular Anomalies | 1852-1858 (stop at diagnostic evaluation) |
| Chapter 97 | Pancreas | 1886-1891 (stop at specific surgical procedures) |
| Chapter 98 | Feeding tubes | 1915-1917 (start at tube feeding specifics) |
| <i>Respiratory System</i> | | |
| Chapter 99 | Nasal Planum, Nasal Cavity, and Sinuses | 1919-1920 (stop at diagnostic approach) + Figure 99.6 on page 1928 |
| Chapter 100 | Palate | 1935-1938 (stop at palate defects) |
| Chapter 101 | Larynx | 1946-1949 (stop at laryngeal neoplasia) |
| Chapter 102 | Trachea and Bronchi | 1963-1965 (stop at techniques: general) |
| Chapter 103 | Lungs | 1983-1987 (stop at postoperative monitoring) |
| <i>Thorax</i> | | |
| Chapter 104 | Thoracic Wall | 2001-2006 (stop at surgical approaches to the thorax) |

| Chapter | Title | Pages (full chapter unless specific pages are noted) |
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| Chapter 105 | Thoracic Cavity | 2019-2027 (stop at diagnostic imaging) |
| <i>Cardiovascular System</i> | | |
| Chapter 106 | Cardiac Surgery | 2049-2055 (stop at strategies for cardiac surgery) |
| Chapter 107 | Pericardial Surgery | 2084-2085 (stop at congenital pericardial diseases) |
| Chapter 108 | Vascular Surgery | 2093-2103 (stop at endovascular surgery) |
| <i>Urogenital System</i> | | |
| Chapter 109 | Ovaries and Uterus | 2109-2114 (stop at surgery and outcome) |
| Chapter 110 | Vagina, Vestibule, and Vulva | 2130-2132 (stop at surgical approaches) |
| Chapter 111 | Testes, Epididymides, and Scrotum | 2142-2145 (stop at disorders) |
| Chapter 112 | Penis and Prepuce | 2158-2161 (stop at specific disorders) |
| Chapter 113 | Prostate | 2168-2171 (stop at diagnostic approach to prostatic disease in the dog) |
| Chapter 114 | Kidneys | 2184-2188 (stop at preoperative management) |
| Chapter 115 | Ureters | 2202-2204 (stop at ureteral obstruction) |
| Chapter 116 | Bladder | 2219-2222 (stop at diagnostic techniques) |
| Chapter 117 | Urethra | 2234-2239 (stop at surgical procedures) |

| Chapter | Title | Pages (full chapter unless specific pages are noted) |
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| Chapter 118 | Sphincter mechanism Incontinence | 2256 (stop at diagnostic assessment) |
| <i>Endocrine System</i> | | |
| Chapter 120 | Adrenal Glands | 2281-2283 (stop at diagnosis of functional adrenal tumors) |
| Chapter 121 | Thyroid and Parathyroid Glands | 2291-2293 (stop at feline hyperthyroidism) |
| <i>Ear</i> | | |
| Chapter 122 | Pinna and External Ear Canal | 2309-2311 (stop at conditions affecting the pinna) |
| Chapter 123 | Middle and Inner Ear | 2328-2331 (stop at inflammatory disease of the middle ear) |
| Chapter 124 | Eye | 2343-2344: Eyelids Anatomy and physiology (stop at special surgical considerations) 2358: Conjunctiva (stop at diseases of the conjunctiva) 2360: Nictitating membrane (stop at everted nictitating membrane) 2363-2364: Cornea (stop at indolent ulcers) 2365: Orbit (stop at clinical signs of orbital disease) |

SELECTED REFERENCES FOR LARGE ANIMAL SURGERY

- 1) Auer JA, Stick JA. *Equine Surgery*, Elsevier., (5th Ed), 2018. *Chapters 1-25, 42, 50, 68-73, 75-80, 105* in their entirety; in addition, information relevant to anatomy, physiology, and fundamental pathophysiology in *Chapters 26-41, 43-67, 74, 81-104*. This information is generally (but not always) found within the first few pages of the chapter; it may be scattered throughout.
- 2) Nixon AJ. *Equine Fracture Repair*, Wiley Blackwell, (2nd Ed), 2020. *Chapters 1-13, 43-49*.
- 3) Cunningham J, Klein B. *Textbook of Veterinary Physiology*, W.B. Saunders Co., (6th Ed) 2019.
- 4) Muir WW, Hubbell JAE. *Equine Anesthesia: Monitoring and Emergency Therapy*, Saunders, (2nd Ed), 2009.
- 5) Fubini SL, Ducharme NG. *Farm Animal Surgery*, W.B. Saunders Co., 2017. *Chapters 1-8* in their entirety; in addition, information relevant to anatomy, physiology, and fundamental pathophysiology in *Chapters 12-24*—this information is generally found within the first few pages of the chapter.
- 6) McIlwraith CW, Nixon AJ, Wright I. *Diagnostic and Surgical Arthroscopy in the Horse*, Mosby Ltd, (4th Ed), 2014. *Chapters 1-3*.
- 7) Boothe DM. *Small Animal Clinical Pharmacology and Therapeutics*, Elsevier, (2nd Ed), 2011. *Chapters 6, 7, 29*.
- 8) Ragle CA. *Advances in Equine Laparoscopy*, Wiley-Blackwell, 2012. *Chapters 1-6*.
- 9) Theoret CL, Schumacher J. *Equine Wound Management*, John Wiley & Sons, (3rd Ed), 2016. *Chapters 1-5*.

Revision

Lumb and Jones *Veterinary Anesthesia and Analgesia* removed from the list.

Knowledge of basic and applied anatomy is assumed and should be reviewed in an appropriate text. For example: Dyce KM, Sack WO, Wensing CJG. *Textbook of Veterinary Anatomy*, Saunders /Elsevier, (5th Ed), 2017.