

## 2019 PHASE I EXAMINATION READING LIST

The following references and books are suggested reading in preparation for the 2019 ACVS Phase I Surgical Knowledge Examination. Other textbooks and current references may be pertinent.

### SELECTED REFERENCES FOR SMALL ANIMAL SURGERY

- 1) Johnston S, Tobias K. *Veterinary Surgery: Small Animal*, Elsevier, (2<sup>nd</sup> Ed), 2018\*.
- 2) Guyton AC, Hall JE. *Textbook of Medical Physiology*, W.B. Saunders Co., (11<sup>th</sup> Ed), 2006 *or* (12<sup>th</sup> Ed), 2011; chapters are equivalent. *Chapters 4-13, 16, 20, 22, 25, 29, 30, 36-42, 49, 60, 62-64, 70.*
- 3) Lumb and Jones. *Veterinary Anesthesia and Analgesia*, Blackwell Publishing, (5<sup>th</sup> Ed), 2015. *Chapters 1-36, 44, 45, 53-57.*
- 4) Boothe DM. *Small Animal Clinical Pharmacology and Therapeutics*, (2<sup>nd</sup> 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.*
- 6) Tams TR, & Rawlings CA. *Small Animal Endoscopy*, Elsevier, (3<sup>rd</sup> Ed), 2011. *Chapter 1 (endoscopic instrumentation, etc.), Chapter 11 (Energy & stapling devices), Chapter 12 (App of LASER energy), Chapter 13 (Endoscopic knot tying & suturing), Chapter 14 (Psychomotor training), Chapter 15 (Laparoscopy 397-417), Chapter 16 (Thoracoscopy 479-489), and Chapter 21 (Arthroscopy 607-613).*
- 7) Knowledge of basic and applied anatomy is assumed and should be reviewed in an appropriate text. For example: Evans HE, de LaHunta A. *Miller's Anatomy of the Dog*, Elsevier, (4<sup>th</sup> Ed), 2013.

\*Phase I portions of Johnston and Tobias (chapter titles and pages have been updated to match the 2018 edition):

<b><i>Veterinary Surgery: Small Animal, 2nd Edition, Johnston and Tobias, 2018</i></b>		
<b>Chapter</b>	<b>Title</b>	<b>Pages</b> (full chapter unless specific pages are noted)
<b><i>Surgical Biology</i></b>		
<b>Chapter 1</b>	Inflammatory Response	
<b>Chapter 2</b>	Molecular and Cellular Biology: Genomics	
<b>Chapter 3</b>	Stem Cells and Regenerative Therapy	
<b>Chapter 4</b>	Platelet Rich Plasma and Autologous Conditioned Sera	
<b>Chapter 5</b>	Fluid Therapy	
<b>Chapter 6</b>	Shock	
<b>Chapter 7</b>	Bleeding and Hemostasis	
<b>Chapter 8</b>	Metabolism and Nutritional Needs of Surgical Patients	
<b>Chapter 9</b>	Wound Healing	
<b>Chapter 10</b>	Wound Infections and Antimicrobial Use	
<b><i>Surgical Methods and Perioperative Care</i></b>		
<b>Chapter 11</b>	Sterilization	
<b>Chapter 12</b>	Instrumentation	
<b>Chapter 13</b>	The Operating Room	

<b>Chapter 14</b>	Monitoring for Surgical Infection	
<b>Chapter 15</b>	Principles and Use of Energy Sources in Small Animal Surgery: Electrosurgery and Laser Applications	
<b>Chapter 16</b>	Suture Material, Tissue Staplers, Ligation Devices, and Closure Methods	
<b>Chapter 17</b>	Instrument and Tissue Handling Techniques	
<b>Chapter 18</b>	Surgical Hemostasis	
<b>Chapter 19</b>	Bandages and Drains	
<b>Chapter 20</b>	Biopsy General Principles	
<b>Chapter 21</b>	Anesthesia Principles and Monitoring	
<b>Chapter 22</b>	Anesthetic Practice for Existing Conditions	
<b>Chapter 23</b>	Fundamentals of Interventional Radiology and Interventional Endoscopy	
<b>Chapter 24</b>	Fundamentals of Laparoscopy and Thoracoscopy	
<b>Chapter 25</b>	Introduction to Oncologic Surgery for the General Surgeon	
<b><i>Neurosurgery</i></b>		
<b>Chapter 26</b>	Neurologic Examination and Neuroanatomic Diagnosis	
<b>Chapter 28</b>	Imaging of the Neurologic System	
<b>Chapter 29</b>	Pathogenesis and Physiology of Central Nervous System Disease and Injury	
<b>Chapter 36</b>	Anesthesia for Intracranial Surgery	
<b><i>Musculoskeletal System</i></b>		
<b>Chapter 38</b>	Tissues of the Musculoskeletal System	601-613
<b>Chapter 39</b>	Bone Biomechanics and Fracture Biology	613-649
<b>Chapter 40</b>	Open Fractures	649-654
<b>Chapter 41</b>	Internal Fracture Fixation	654-690
<b>Chapter 42</b>	External Skeletal Fixation	691-721
<b>Chapter 43</b>	Overview of Minimally Invasive Osteosynthesis Principles	721-737
<b>Chapter 44</b>	Bandaging, External Coaptation, and External Devices for Companion Animals	737-751
<b>Chapter 45</b>	Delayed Unions, Nonunions, and Malunions	752-761
<b>Chapter 47</b>	Osteomyelitis and Implant-Associated Infections	775-783
<b>Chapter 48</b>	Bone Grafts and Substitutes	783-794
<b>Chapter 68</b>	Arthritis	1265-1299
<b>Chapter 70</b>	Muscle and Tendon Disorders	1316-1317, 1319-1321
<b>Chapter 73</b>	Osteochondrosis	1372-1380
<b>Chapter 74</b>	Gait Analysis	1385-1396
<b><i>Skin and Reconstruction</i></b>		
<b>Chapter 75</b>	Primary Wound Closure	1397-1409
<b>Chapter 76</b>	Open Wounds	1410-1421
<b>Chapter 81</b>	Burns	1495-1499

<b><i>Abdomen</i></b>		
<b>Chapter 83</b>	Spleen	1551-1557
<b>Chapter 84</b>	Abdominal Wall Reconstruction and Hernias	1564-1567
<b>Chapter 85</b>	Diaphragmatic Hernias	1592-1593
<b>Chapter 86</b>	Peritoneum and Retroperitoneum	1603-1616
<b><i>Digestive System</i></b>		
<b>Chapter 87</b>	Soft Tissues of the Oral Cavity	1637-1641
<b>Chapter 88</b>	Salivary Glands	1653-1655
<b>Chapter 89</b>	Mandibulectomy and Maxillectomy page	1663-1664
<b>Chapter 90</b>	Esophagus	1677-1680
<b>Chapter 91</b>	Stomach	1700-1704
<b>Chapter 92</b>	Small Intestine	1730-1737
<b>Chapter 93</b>	Colon	1761-1768
<b>Chapter 94</b>	Rectum, Anus, and Perineum	1783-1786
<b>Chapter 95</b>	Liver and Biliary System	1828-1834
<b>Chapter 96</b>	Hepatic Vascular Anomalies	1852-1859
<b>Chapter 97</b>	Pancreas	1886-1891
<b>Chapter 98</b>	Feeding tubes	1901-1902, 1915-1917
<b><i>Respiratory System</i></b>		
<b>Chapter 99</b>	Nasal Planum, Nasal Cavity, and Sinuses	1919-1920
<b>Chapter 100</b>	Palate	1935-1938
<b>Chapter 101</b>	Larynx	1946-1949
<b>Chapter 102</b>	Trachea and Bronchi	1963-1965
<b>Chapter 103</b>	Lungs	1983-1987
<b><i>Thorax</i></b>		
<b>Chapter 104</b>	Thoracic Wall	2001-2006
<b>Chapter 105</b>	Thoracic Cavity	2019-2027
<b><i>Cardiovascular System</i></b>		
<b>Chapter 106</b>	Cardiac Surgery	2049-2055
<b>Chapter 107</b>	Pericardial Surgery	2084-2088
<b>Chapter 108</b>	Vascular Surgery	2093
<b><i>Urogenital System</i></b>		
<b>Chapter 109</b>	Ovaries and Uterus	2109-2112
<b>Chapter 110</b>	Vagina, Vestibule, and Vulva	2130-2132
<b>Chapter 111</b>	Testes, Epididymides, and Scrotum	2142-2145
<b>Chapter 112</b>	Penis and Prepuce	2160-2161
<b>Chapter 113</b>	Prostate	2168-2170
<b>Chapter 114</b>	Kidneys	2184-2188
<b>Chapter 115</b>	Ureters	2202-2203
<b>Chapter 116</b>	Bladder	2219-2222

<b>Chapter 117</b>	Urethra	2234-2238
<b><i>Endocrine System</i></b>		
<b>Chapter 120</b>	Adrenal Glands	2281-2283
<b>Chapter 121</b>	Thyroid and Parathyroid Glands	2291-2293
<b><i>Ear</i></b>		
<b>Chapter 122</b>	Pinna and External Ear Canal	2309-2311
<b>Chapter 123</b>	Middle and Inner Ear	2328-2331