

## 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 LARGE ANIMAL SURGERY

- 1) Auer JA, Stick JA. Equine Surgery, W.B. Saunders Co., (4<sup>th</sup> Ed), 2012\*.
- 2) Tobias and Johnston. Veterinary Surgery: Small Animal, Volume 1, W.B. Saunders Co., 2012. *Chapters 1-19, 41, 46 and 49.*
- 3) Nixon AJ. Equine Fracture Repair, W.B. Saunders Co., 1996. *Chapters 1-11, 33-39.*
- 4) Guyton AC, Hall JE. Textbook of Medical Physiology, W.B. Saunders Co., (13<sup>th</sup> Ed), 2016. *Chapters 6, 7, 8, 9 (pages 113-116), 11, 13, 14, 16, 17 (pages 212-213), 19 (pages 234-236), 25, 26, 27, 28 (pages, 362-365), 31, 34, 35, 37, 76, and 80.*
- 5) Cunningham J, Klein B. Textbook of Veterinary Physiology, W.B. Saunders Co., 2013. *Chapters 28-31.*
- 6) Lumb and Jones. Veterinary Anesthesia and Analgesia, Blackwell Publishing, (5<sup>th</sup> Ed), 2015. *Chapters 3, 4, 8, 9, 10, 11, 12, 16, 17, 29 (relevant large animal sections), chapters 46-49 and 51.*
- 7) Muir WW, Hubbell JAE. Equine Anesthesia: Monitoring and Emergency Therapy, Saunders, (2<sup>nd</sup> Ed), 2009.
- 8) Fubini SL, Ducharme NG. Farm Animal Surgery, W.B. Saunders Co., 2017. *Chapters 1-8 and 12-24 (initial relevant pages).*  
*Portions of Chapters 12-24 may be covered on the Phase I and Phase II examinations. See the representative divisions of Auer and Stick by page for examples of how, in each chapter, anatomy and physiology (Phase I) is split from diagnostics, treatment, and perioperative care (Phase II).*
- 9) McIlwraith CW, Nixon AJ, Wright I. Diagnostic and Surgical Arthroscopy in the Horse, Mosby Ltd, (4<sup>th</sup> Ed), 2014. *Chapters 1-3.*
- 10) Boothe DM. Small Animal Clinical Pharmacology and Therapeutics, Elsevier, (2<sup>nd</sup> Ed), 2011. *Chapters 6, 7, 29.*
- 11) Ragle CA. Advances in Equine Laparoscopy, Wiley-Blackwell, 2012. *Chapters 1-6.*
- 12) Theoret CL & Schumacher J. Equine Wound Management, John Wiley & Sons, (3<sup>rd</sup> Ed), 2017. *Chapters 1-5.*
- 13) Knowledge of basic and applied anatomy is assumed and should be reviewed in an appropriate text. For example: Dyce KM, Sack WO, Wensing CJG. Text book of Veterinary Anatomy, Saunders /Elsevier, (4<sup>th</sup> Ed), 2010.

\*Phase I portions of Auer and Stick:

<b><i>Equine Surgery, 4<sup>th</sup> Edition, Auer and Stick, 2012</i></b>		
<b>Chapter</b>	<b>Title</b>	<b>Pages</b>
<b><i>Surgical Biology</i></b>		
<b>Chapter 1</b>	Shock: Pathophysiology, Diagnosis, Treatment	1-13
<b>Chapter 2</b>	The Systemic Inflammatory Response	13-23
<b>Chapter 3</b>	Fluids, Electrolytes, Acid-base Therapy	24-34
<b>Chapter 4</b>	Hemostasis, Surgical Bleeding, and Transfusions	35-46
<b>Chapter 5</b>	Wound Healing	47-61
<b>Chapter 6</b>	Metabolism and Nutritional Support of the Surgical Patient	62-67
<b>Chapter 7</b>	Surgical Site Infection and Use of Antimicrobials	68-84

<b>Chapter 8</b>	Regenerative Medicine	85-97
<b><i>Surgical Methods</i></b>		
<b>Chapter 9</b>	Instrument Preparation, Sterilization, and Antiseptics	98-110
<b>Chapter 10</b>	Preparation of Surgical Patient, the Surgery Facility, and the Operating Team	111-121
<b>Chapter 11</b>	Surgical Instruments	122-137
<b>Chapter 12</b>	Surgical Techniques	138-148
<b>Chapter 13</b>	Minimally Invasive Surgical Techniques	149-160
<b>Chapter 14</b>	Cryosurgery	161-164
<b>Chapter 15</b>	Lasers in Veterinary Surgery	165-180
<b>Chapter 16</b>	Suture Materials and Patterns	181-202
<b>Chapter 17</b>	Drains, Bandages, and External Coaptation	203-218
<b><i>Recent Advances in Anesthesia</i></b>		
<b>Chapter 18</b>	Balanced Inhalation Anesthesia	219-223
<b>Chapter 19</b>	Modern Injection Anesthesia for Horses	224-228
<b>Chapter 20</b>	Anesthesia and Analgesia for Foals	229-245
<b>Chapter 21</b>	Recovery from Anesthesia	246-252
<b>Chapter 22</b>	Chemical Restraint for Standing Surgery	253-262
<b>Chapter 23</b>	Equine Pain Management	263-270
<b><i>Integumentary System</i></b>		
<b>Chapter 24</b>	Principals of Plastic and Reconstructive Surgery	271-284
<b>Chapter 26</b>	Management of Superficial Wounds	306-316
<b><i>Alimentary System</i></b>		
<b>Chapter 30</b>	Oral Cavity and Salivary Glands	339-340
<b>Chapter 31</b>	Esophagus	367-368
<b>Chapter 32</b>	Stomach and Spleen	388-390, 393-395
<b>Chapter 36</b>	Small Intestine	416-422
<b>Chapter 37</b>	Large Intestine	454-456, 463-465, 481-482
<b>Chapter 39</b>	Abdominal Hernias	506
<b><i>Respiratory System</i></b>		
<b>Chapter 41</b>	Overview of Upper Airway Function	530-535
<b>Chapter 43</b>	Nasal Passages and Paranasal Sinuses	557-558
<b>Chapter 44</b>	Pharynx	569-571
<b>Chapter 45</b>	Larynx	592-593
<b>Chapter 46</b>	Guttural Pouch	623-624
<b><i>Nervous System</i></b>		
<b>Chapter 49</b>	Anatomy and Physiology of the Nervous System	665-675
<b>Chapter 51</b>	Developmental Vertebral Anomalies	693-694
<b>Chapter 54</b>	Peripheral Nerve Injury	720-724

<b><i>Eye and Adnexa</i></b>		
<b>Chapter 55</b>	Surgery of the Globe and Orbit	728-729
<b>Chapter 56</b>	Adnexal Surgery	744-746, 761-762, 765
<b>Chapter 57</b>	Surgery of the Ocular Surface	770-773
<b>Chapter 58</b>	Intraocular Surgery	792-793
<b><i>Reproductive System</i></b>		
<b>Chapter 59</b>	Testis	804-807
<b>Chapter 60</b>	Penis and Prepuce	840-844
<b>Chapter 61</b>	Vulva, Vestibule, Vagina, and Cervix	866-867
<b>Chapter 62</b>	Uterus and Ovaries	883-884
<b><i>Urinary System</i></b>		
<b>Chapter 64</b>	Kidneys and Ureters	913-915
<b>Chapter 65</b>	Bladder	927
<b>Chapter 66</b>	Urethra	940
<b><i>Diagnostic Imaging</i></b>		
<b>Chapter 67</b>	Radiography	950-963
<b>Chapter 68</b>	Ultrasonography	964-970
<b>Chapter 69</b>	Nuclear Scintigraphy	971-978
<b>Chapter 70</b>	Computed Tomography	979-984
<b>Chapter 71</b>	Magnetic Resonance Imaging	985-997
<b><i>Musculoskeletal System</i></b>		
<b>Chapter 72</b>	Diagnostic Anesthesia	998-1014
<b>Chapter 74</b>	Bone Biology and Fracture Healing	1025-1039
<b>Chapter 75</b>	Metallic Instruments and Implants	1040-1046
<b>Chapter 76</b>	Principals of Fracture Treatment	1047-1080
<b>Chapter 77</b>	Bone Grafts and Bone Replacements	1081-1095
<b>Chapter 78</b>	Synovial Joint Biology and Pathobiology	1096-1113
<b>Chapter 79</b>	Medical Treatment of Joint Disease	1114-1122
<b>Chapter 80</b>	Surgical Treatment of Joint Disease	1123-1129
<b>Chapter 83</b>	Diagnosis and Management of Tendon and Ligament Disorders	1157-1160
<b>Chapter 84</b>	Biology and Management of Muscle Disorders and Diseases	1180-1181
<b>Chapter 88</b>	Osteochondrosis	1239-1241, 1243-1250
<b>Chapter 89</b>	Subchondral Bone Cysts	1255-1256
<b>Chapter 94</b>	Carpus	1347-1348
<b>Chapter 95</b>	Radius and Ulna	1363-1364
<b>Chapter 97</b>	Tarsus	1388-1390
<b>Chapter 99</b>	Stifle	1419-1420
<b>Chapter 101</b>	Temporomandibular Joint Disorders	1452

<b>Chapter 102</b>	Craniomaxillofacial Disorders	1456
<b>Chapter 103</b>	Postoperative Physiotherapy for the Orthopedic Patient	1483-1487