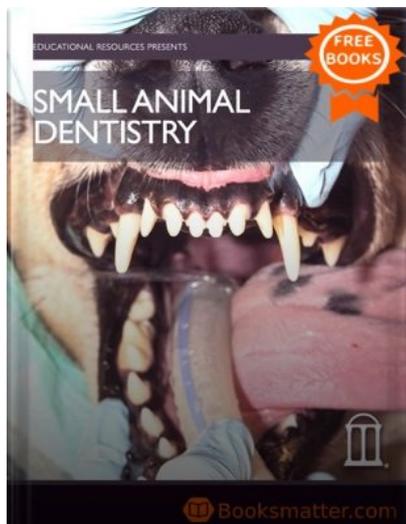


Small Animal Dentistry

SMALL ANIMAL DENTISTRY EBOOK AUTHOR BY EDUCATIONAL RESOURCES, UNIVERSITY OF GEORGIA



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Genre: Medical

Summary

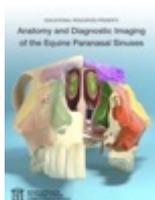
Many important improvements have been made in the science and practice of dentistry in small animal practice over the last decade. These have included updates in terminology used to identify an animal's teeth, the incorporation of digital radiography in the diagnosis of different dental abnormalities, the development of a comprehensive series of protocols used to completely evaluate, treat and prevent dental diseases in dogs and cats, and the use of specific nerve blocks as a mean to improve provision of analgesia in veterinary patients. This interactive book was developed to highlight these improvements.

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[ANATOMY AND DIAGNOSTIC IMAGING OF THE EQUINE PARANASAL SINUSES](#)



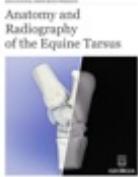
The equine sinus system is complex and as a result can be difficult for veterinary students to master. The purpose of this interactive book is to present the equine sinus system in a new light, using a combination of illustrations, interactive 3-D models, animations and videos. In this manner, students will be exposed not only to the anatomy of the sinuses, but also to diagnostic techniques such as radiography, computed tomography, magnetic resonance imaging, and endoscopy that are used in ...

[ANATOMIC LANDMARKS OF THE CANINE AND EQUINE THORACIC LIMBS](#)



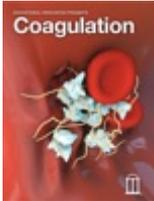
When veterinary students begin learning anatomy, they frequently are tasked with comparing the anatomic features of two very different domestic animal species, namely the dog and horse. These students must have a clear appreciation of these differences in order to be properly prepared to perform physical examinations, interpret diagnostic images, and learn surgical approaches to diseases affecting these animals. This interactive book combines photographs and 3-D models of the bones ...

[ANATOMY AND RADIOGRAPHY OF THE EQUINE TARSUS](#)



When veterinary students learn anatomy and radiography, they frequently encounter difficulties with the equine tarsus. This is true for a variety of reasons, not the least of which is the number of bones and joints comprising the tarsus, and the apparent overlap of the bones on radiographs. Consequently, many students have difficulty recognizing the different radiographic views used to examine the tarsus. This interactive book combines photographs, radiographs and 3-D models of the bones that ...

[COAGULATION](#)



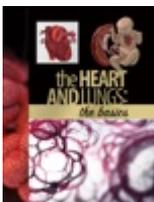
After trying unsuccessfully to understand the coagulation cascade, most students simply give up and memorize the cascade. The problem with that way of 'learning' is that does not lead to anything that persists. Consequently, this interactive book was created to help students envision coagulation in a different way. Most importantly, the focus of this book is what is happening at the level of the vascular endothelium in critically ill patients, and how these processes are regulated. ...

[EQUINE NASOGASTRIC INTUBATION AND UPPER AIRWAY ENDOSCOPY](#)



This interactive book was created to help students become familiar with the anatomy and physiology of the horse's upper respiratory tract, the landmarks that can be identified during endoscopic examination of the region, and the techniques used to successfully pass either a nasogastric tube or to perform endoscopy. This has been done using a combination of photography, videography, animations and embedded self-assessments...

[THE HEART AND LUNGS](#)



Students commonly struggle to envision the structure and function of the heart and lungs, particularly when it comes to the situation in a developing baby. This multitouch book was created to help students understand the anatomy of the heart and lungs, what occurs in each organ, and how they work together to keep the body functioning. The last part of the book was designed to help students understand what happens to the baby's heart before and after birth...

[MEASUREMENT OF LIVER ENZYMES IN VETERINARY MEDICINE](#)



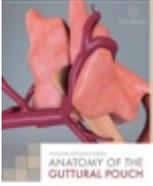
When veterinarians evaluate animals presented with evidence of liver disease, a key question to be answered is whether or not the underlying problem is interference with the normal handling of bile or damage to the liver itself. Very often, they address this question by measuring serum concentrations of one or more of the five enzymes that commonly are associated with the liver. This interactive book presents information about each of these enzymes, their location, when they enter the ...

[ELECTROCARDIOGRAPHY](#)



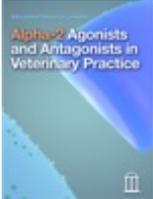
As part of a three book series, this multi-touch book was created to provide students an interactive approach to the principles underlying electrocardiography, a diagnostic test that is used in the assessment of patients with cardiovascular and non-cardiovascular diseases. In this book, we have included a series of illustrations and animations designed to help students develop accurate mental images of the changes that occur in the electrical potentials (i.e., voltage) generated in heart muscle...

[ANATOMY OF THE GUTTURAL POUCH](#)



The anatomy of the equine guttural pouches is extremely difficult to master. This may be due to the complexity of this area of the horse's head and neck region, or because it is difficult to envision the pouches, where they are located, and how they are related to the cranial nerves and blood vessels in that area. This interactive book was created to help overcome these difficulties by providing 3-D models, interactive images, endoscopic images and videos, and simulated endoscopic views that ...

ALPHA-2 AGONISTS AND ANTAGONISTS IN VETERINARY PRACTICE



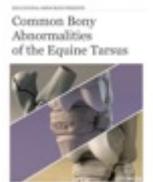
Alpha-2 agonists and antagonists are used commonly in veterinary medical practice to provide sedation. Because these drugs work through more than one type of receptor and exert effects on several body systems, their mode of action can be difficult to comprehend. This interactive book was created to address these difficulties by making the mode of action of these drugs easier for students to envision...

RUPTURE OF THE CRANIAL CRUCIATE LIGAMENT IN THE DOG



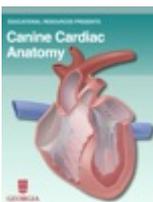
Dogs of any shape, size or age are at risk for rupturing their cranial cruciate ligaments. Consequently, it is important for veterinary students and dog lovers to understand the anatomy and function of the dog's stifle joint, and how these are affected when the cranial cruciate ligament tears. This interactive book combines medical illustrations, 3-D models, photographs, videos and animations to explain how the disease develops and the rationale for its surgical treatment...

COMMON BONY ABNORMALITIES OF THE EQUINE TARSUS



Veterinary students often report that it can be particularly difficult to identify bony abnormalities on radiographs of the horse's tarsus, primarily because of the complexity of this part of the horse's anatomy. The process of 'reading' radiographs is facilitated by creating 3-D mental models of the area being examined, a skill that is developed with experience. To facilitate this process, in this multi-touch book, we have combined radiographs, radiographs with the lesions highlighted, ...

CANINE CARDIAC ANATOMY



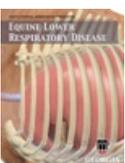
This multi-touch book was created to provide veterinary students an interactive approach to the anatomy of the canine heart, major arteries and veins, and sites for auscultating heart sounds. In this book, we have included a series of illustrations, animations 3D models and audio files designed to help students develop accurate mental images of the location of the most important anatomic structures in the canine heart...

RENIN ANGIOTENSIN ALDOSTERONE SYSTEM IN THE DOG



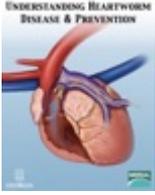
Blood pressure, serum concentrations of sodium, and the production of urine are regulated by the renin angiotensin aldosterone system. This system also has an important role in the development of high blood pressure. Because it is now possible to modulate the activity of many of the enzymes involved in this system, it is important for veterinary students to have a solid understanding of this material. Consequently, this interactive book was developed to help make learning about the renin ...

EQUINE LOWER RESPIRATORY DISEASE



Lower respiratory diseases occur commonly in horses and often negatively impact their performance. Consequently, it is important for veterinary students to understand the anatomy and physiology of the equine respiratory system, the diagnostic techniques used in practice, and how to interpret the results. This multi-touch book uses a combination of photographs, illustrations, 3-dimensional models and animations to facilitate this process...

UNDERSTANDING HEARTWORM DISEASE & PREVENTION



Heartworm disease is a common, potentially life-threatening condition in dogs that is caused by the adult stages of *Dirofilaria immitis*. The *D. immitis* larvae that are transmitted to dogs from infected mosquitoes mature and then cause damage to the heart and pulmonary arteries. This results in a variety of clinical signs, including a persistent cough, fatigue during exercise, fainting and weight loss. Using a variety of interactive images and animations, this book depicts how...

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