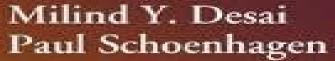
# Cardiac Computed Tomography

Problem-Based Learning















## **Cardiac Computed Tomography Problem Based Learning**

**Armin Arbab Zadeh, John Hoe** 

#### **Cardiac Computed Tomography Problem Based Learning:**

Cardiac Computed Tomography Milind Y. Desai, Paul Schoenhagen, 2011-12-21 Technologic advances in imaging now allow cardiologists to diagnose noninvasively a wide range of cardiac disorders from subclinical atherosclerosis to obstructive coronary artery disease This 500 Question MCQs that mimic the CCT boards Review guestions in CT physics study acquisition and interpretation Online access to video clips and over 500 Q As Cardiac Anesthesia: A Problem-Based Learning Approach Mohammed Minhaj, 2019-04-19 This text is designed as a case based approach to review the most common procedures an anesthesiologist will provide care for in the cardiothoracic subspecialty. The chapters in the book are written in a problem based learning discussion PBLD format that allows the reader to critically ask themselves key questions related to each case while going through the case report and then the discussion that follows Pediatric Anesthesia: A Problem-Based Learning Approach Kirk Lalwani, Ira Todd Cohen, Ellen Y. Choi, Vidya T. Raman, 2018-10-15 Linking existing knowledge to new knowledge by presenting it in the form of a case or a problem is a popular and effective educational approach resulting in better retention of the knowledge and improved ability to apply that knowledge to solve real problems This problem based learning PBL method was introduced into medical education at McMaster University in Ontario Canada in 1969 Since then it has been widely incorporated into secondary undergraduate and graduate education in a variety of disciplines worldwide This new volume for the Anesthesiology Problem Based Learning series reviews pediatric anesthesia utilizing the PBL approach Each chapter deals with conditions and problems in pediatric anesthesia practice presented as a case stem with questions to encourage critical thinking followed by an evidence based discussion and multiple choice questions for self assessment Cases were carefully selected to present a broad systems based tour of commonly encountered clinical cases in pediatric anesthesia The book can be used to review an upcoming clinical case or as a PBL tool The Stem Case and Key Questions and Discussion sections can serve as the basis for interactive learning experiences for study groups or as a broad yet in depth clinical review of the subspecialty for the individual learner Self assessment questions can be used as a measure of knowledge acquisition or simply as a question bank to prepare for examinations **Perioperative** Medicine Associate Professor Deborah C Richman, Debra Pulley, Associate Professor Adriana D Oprea, 2024 The seventh volume in the Anesthesiology Problem Based Learning Approach series Perioperative Medicine provides an up to date and comprehensive review of the perioperative medicine specialty Neuroanesthesia: A Problem-Based Learning Approach David E. Traul, Irene P. Osborn, 2018-10-15 Neuroanesthesia A Problem Based Learning Approach provides an up to date and comprehensive review of the neuroanesthesia subspecialty Its problem based format incorporates a pool of practical multiple choice questions for self assessment Each of its 29 case based chapters is accompanied by 10 questions and answers accessible online in a full practice exam The cases presented are also unique as each chapter starts with a case description usually a compilation of several actual cases it then branches out through case based questions to increasingly

complex situations This structure is designed to create an authentic experience that mirrors that of an oral board examination The discussion sections that follow offer a comprehensive approach to the chapter's subject matter thus creating a modern complete and up to date medical review of that topic This book is equally a solid reference compendium of neuroanesthesia topics and a comprehensive review to assist the general practitioner both in day to day practice and during preparation for certification exams Its problem based format makes it an ideal resource for the lifelong learner and the modern realities of education Radiology in Global Health Daniel J. Mollura, Matthew P. Lungren, 2014-07-02 The World Health Organization stated that approximately two thirds of the world's population lacks adequate access to medical imaging The scarcity of imaging services in developing regions contributes to a widening disparity of health care and limits global public health programs that require imaging Radiology is an important component of many global health programs including those that address tuberculosis AIDS related disease trauma occupational and environmental exposures breast cancer screening and maternal infant health care There is a growing need for medical imaging in global health efforts and humanitarian outreach particularly as an increasing number of academic government and non governmental organizations expand delivery of health care to disadvantaged people worldwide To systematically deploy clinical imaging services to low resource settings requires contributions from a variety of disciplines such as clinical radiology epidemiology public health finance radiation physics information technology engineering and others This book will review critical concepts for those interested in managing establishing or participating in a medical imaging program for resource limited environments and diverse cross cultural contexts undergoing imaging technology adaptation Machine Learning in Cardiovascular Medicine Subhi J. Al'Aref, Gurpreet Singh, Lohendran Baskaran, Dimitri Metaxas, 2020-11-20 Machine Learning in Cardiovascular Medicine addresses the ever expanding applications of artificial intelligence AI specifically machine learning ML in healthcare and within cardiovascular medicine The book focuses on emphasizing ML for biomedical applications and provides a comprehensive summary of the past and present of AI basics of ML and clinical applications of ML within cardiovascular medicine for predictive analytics and precision medicine It helps readers understand how ML works along with its limitations and strengths such that they can could harness its computational power to streamline workflow and improve patient care It is suitable for both clinicians and engineers providing a template for clinicians to understand areas of application of machine learning within cardiovascular research and assist computer scientists and engineers in evaluating current and future impact of machine learning on cardiovascular medicine Provides an overview of machine learning both for a clinical and engineering audience Summarize recent advances in both cardiovascular medicine and artificial intelligence Discusses the advantages of using machine learning for outcomes research and image processing Addresses the ever expanding application of this novel technology and discusses some of the unique challenges associated with such an approach Problem Solving in Chest Imaging E-Book Subba R. Digumarthy, Suhny Abbara, Jonathan H. Chung, 2018-12-24

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Medical Imaging: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2016-07-18 Medical imaging has transformed the ways in which various conditions injuries and diseases are identified monitored and treated As various types of digital visual representations continue to advance and improve new opportunities for their use in medical practice will likewise evolve Medical Imaging Concepts Methodologies Tools and Applications presents a compendium of research on digital imaging technologies in a variety of healthcare settings This multi volume work contains practical examples of implementation emerging trends case studies and technological innovations essential for using imaging technologies for making medical decisions This comprehensive publication is an essential resource for medical practitioners digital imaging technologists researchers and medical students **Practical Guide to** Cardiac CT Armin Arbab Zadeh, John Hoe, 2024-10-28 This book provides a practical easy to understand approach to the clinical practice of cardiac CT imaging Written by international leaders in the field with many years of experience in education and practice the book provides the necessary background to understand all aspects of cardiac CT imaging paired with practical instructions to acquire CT images optimize image for interpretation and to appropriately interpret scans An emphasis is placed on concise text abundance of tables and illustrations and easily searchable information The book builds on years of experience in educating and instructing physicians on all aspects of cardiac CT imaging The book includes chapters on latest and evolving technologies and envisions a link to online applications for enhanced readily available instruction This book offers valuable assistance to medical practitioners and trainees on how to safely acquire and interpret cardiac CT images for a wide spectrum of indications including coronary heart disease cardiac rhythm disorders structural heart disease interventional cardiology and valvular heart disease

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