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Acute Stroke Management in the First 24 HoursA Practical Guide for Clinicians
Maxim Mokin, Edward C. Jauch, Italo Linfante, Adnan Siddiqui, and Elad Levy (eds)

Print Publication Year: 2018 Published Online: Jun 2018
DOI: 10.1093/med/9780190856519.001.0001

Diagnosis and treatment of acute stroke has advanced considerably in the past 2 decades. Most notably, in cases of ischemic stroke, intravenous alteplase has become the standard of medical treatment despite its multiple contraindications and limited time window. More recently, trials have proven that endovascular thrombectomy is superior to medical therapy alone, advancing the standard of care for patients who present with acute ischemic stroke from a large vessel occlusion and salvageable brain tissue. The treatment of hemorrhagic stroke now involves the use of novel pharmacological agents and advanced minimally invasive technology. Important changes have also occurred at the levels of hospital organization and treatment decision-making. Such changes in organization and designation of hospitals with distinct levels of stroke care and the variety of stroke protocols now requires team work of emergency medical services (EMS), Emergency Department, stroke neurologists, neurosurgeons, and neurointerventionalists. This book provides an overview of the modern medical and surgical options for the treatment of patients with acute ischemic and hemorrhagic strokes. The pivotal role of EMS in prehospital evaluation and triage of a stroke patient and the levels of stroke systems of care are discussed. In addition, the current guidelines on the management of acute stroke, with the focus on early care of acute stroke patients at the Emergency Department and the first 24 hours of hospital admission, are reviewed. Each chapter contains a discussion of common clinical scenarios including initial management steps, practical points, and common pitfalls.

Advanced Perioperative Crisis Management
Matthew D. McEvoy and Cory M. Furse

Print Publication Year: 2017 Published Online: Aug 2017
DOI: 10.1093/med/9780190226459.001.0001

This book has grown out of decades of practicing simulation and teaching concepts of perioperative crisis resource management at our institutions, at national meetings, and in our residency and fellowship training programs. The purpose is to fill a gap between two areas of valuable work that exist in the perioperative emergency space; namely, between
books that consist largely of steps of diagnosing a problem followed by a list of treatment steps and those reference books or articles that form the compendium works. As such, the goal of this volume is to be an up-to-date, high-yield, clinically relevant resource for understanding the epidemiology, pathophysiology, and proper assessment and management of a wide variety of perioperative emergencies. Our target audience is anesthesiologists, nurse anesthetists, surgeons, recovery and critical care nurses, and anyone else practicing within the perioperative arena.

Advanced Respiratory Critical Care (Oxford Specialist Handbooks in Critical Care)
Martin Hughes and Roland Black (eds)
Print Publication Year: 2011 Published Online: Oct 2011
Publisher: Oxford University Press
DOI: 10.1093/med/9780199569281.001.0001

This resource provides comprehensive clinical detail on respiratory disease, in an easily readable format. It is written by practising clinicians and has both in-depth theoretical discussion and practical management advice.

Anaesthesia for Day Case Surgery (Oxford Anaesthesia Library)
Jan Jakobsson
Print Publication Year: 2012 Published Online: Oct 2012
Publisher: Oxford University Press
DOI: 10.1093/med/9780199652969.001.0001

This practical online reference provides an overview of the scope of day surgical anaesthesia and features simple and ready-to-use suggestions for the selection of drugs, techniques and protocols to follow.

Anaesthesia for Emergency Care (Oxford Specialist Handbooks in Anaesthesia)
Jerry Nolan and Jasmeet Soar (eds)
Print Publication Year: 2012 Published Online: Jul 2012
Publisher: Oxford University Press
DOI: 10.1093/med/9780199588978.001.0001

This concise resource covers the provision of all aspects of anaesthesia in an emergency setting. Ideal for use in the emergency department and in emergency sugery.

Anaesthesia for the Elderly Patient (Oxford Anaesthesia Library)
Chris Dodds, Chandra M. Kumar, and Frédérique Servin
Print Publication Year: 2016 Published Online: Jan 2017
Publisher: Oxford University Press
DOI: 10.1093/med/9780198735571.001.0001
This book provides a timely and authoritative synopsis of the current state of anaesthesia and the elderly patient at a time when the challenge of caring for the growing numbers of elderly patients is probably the greatest faced by healthcare across the globe. The book reviews important developments in the understanding of clinical practice serving the elderly. It describes the need for anaesthesia to deliver ‘best care’ to the elderly, with the aim to maintain their independent living. It then details the key features of ageing and the effect these have on physiology and pharmacology. Specific aspects of practice, including preoperative assessment; day surgery; emergency surgery; anaesthesia for orthopaedic, urological, and gynaecological surgery, as well as major abdominal surgery; neurosurgery; and critical care. Emphasis is placed on managing postoperative care and cognitive dysfunction (POCD), with additional discussion of ethical issues and the law pertaining to the elderly patient. A new chapter reviews the challenges of treating elderly patients in non-theatre environments.

**Anaesthesia for the Overweight and Obese Patient (Oxford Anaesthesia Library)**
Mark Bellamy and Michel Struys

Print Publication Year: 2007 Published Online: May 2011  
Publisher: Oxford University Press  
DOI: 10.1093/med/9780199233953.001.0001

This practical online reference offers a concise introduction to the basic science and major clinical issues facing the anaesthetist when dealing with the overweight and obese patient.

**Anesthesia Emergencies**
Keith J. Ruskin and Stanley H. Rosenbaum (eds)

Print Publication Year: 2015 Published Online: Aug 2015  
Publisher: Oxford University Press  
DOI: 10.1093/med/9780199377275.001.0001

This resource contains relevant step-by-step information on how to detect, manage, and treat complications and emergencies during the perioperative period. Concisely written, highlighted sections on immediate management and risk factors reinforce essential points for easy memorization, while consistent organization and checklists provide ease of learning and clarity. Anesthesia providers will find this book an indispensable resource, describing assessment and treatment of life-threatening situations, including airway, thoracic, surgical, pediatric, and cardiovascular emergencies. The second edition contains a revised table of contents which presents topics in order of their priority during emergencies, as well as two new chapters on crisis resource management and disaster medicine.

**Anesthesia Outside the Operating Room**
Richard D. Urman, Wendy L. Gross, and Beverly K. Philip (eds)

Print Publication Year: 2018 Published Online: Sep 2018  
Publisher: Oxford University Press
Anesthesia Outside of the Operating Room 2nd edition covers all aspects of providing anesthesia in settings outside of the main operating room, with a special focus on techniques, procedures and safety considerations. It discusses anesthetic concerns by procedure location, and includes selected latest guidelines from the American Society of Anesthesiologists (ASA) and other professional societies. Topics include patient monitoring techniques, pre-procedure evaluation and post-procedure care, and procedural sedation performed by non-anesthesia providers. The authors address problems of anesthesia that have unique answers in settings outside the operating room, such as patient transport and cardiac arrest, and discuss technological progress and considerations for the future. The text also covers surgical procedures and anesthetic considerations by procedure location, such as radiology, infertility clinics, field and military environments, and pediatric settings.

Anesthesiology: A Comprehensive Board Review for Primary and Maintenance of Certification
Kai Matthes, Richard Urman, and Jesse Ehrenfeld (eds)

Print Publication Year: 2013 Published Online: Aug 2013
Publisher: Oxford University Press
DOI: 10.1093/med/9780199733859.001.0001

This resource contains more than 1000 updated, realistic multiple-choice questions tailored to the question content of recent American Board of Anesthesiology (ABA) exams. Key messages are repeated and highlighted in the bullets, and while focusing on most-frequently tested keywords by the ABA, it also covers new, emerging topics, such as patient safety, statistics, and ethics.

Anesthesiology Applied Exam Board Review
Ruchir Gupta and Minh Chau Joe Tran

Print Publication Year: 2018 Published Online: Nov 2018
Publisher: Oxford University Press
DOI: 10.1093/med/9780190852474.001.0001

The American Board of Anesthesiology (ABA) has recently changed their Part II examination for certification to include the traditional oral exam as well as a new “simulation” portion that is geared towards having the student demonstrate the appropriate communication and technical skills necessary for the practice of anesthesiology. This book is divided into 2 sections: full length practice exams on the most high yield topic for the field of anesthesiology and full length simulation scenarios geared towards the understanding the fundamentals of the simulation portion based on the released ABA guidelines.
This book is a concise step-by-step ready reference manual which will help interns transition smoothly to life in the operating room (OR) as anesthesiology residents within the first few months. This survival guide will flatten the learning curve and improve the comfort level of trainees entering the OR for the first time. This Anesthesiology CA-1 Pocket Survival Guide, highlights information to seek out during the orientation period and lays out what to expect in the first clinical anesthesia year. It provides residents with easy-to-follow instructions for such common tasks as patient evaluation and pre-anesthesia care, and suggests how to obtain and organize a patient’s preoperative information to present to the attending anesthesiologist. The handbook also guides residents and trainees through the perioperative period and addresses crisis management as well as post-anesthesia care. The fundamentals of anesthesiology practice as well as specialty practice situations such as providing anesthesia in remote locations are introduced to the beginning anesthesiology resident. Time management and preparation for the anesthesiology BASIC examination and suggestions on how to strike a healthy work-life balance to avoid burn out early on in training are all laid out. The concept of continuous quality improvement focusing on improving the provision of care from one episode to the next is introduced to the learner. This book provides the foundation for a sound beginning in anesthesiology training.

Anesthesiology Critical Care Board Review

Focused preparation for Critical Care Certification is needed to ensure success. The Anesthesiology Critical Care Certification examination in particular provides an objective assessment from the perspective of physicians who have a keen perioperative mindset and skillset, while simultaneously demonstrating comfort in caring for patients from every background and co-morbidity as all such patients frequently eventually require pre-operative or post-operative management. The Anesthesiology Critical Care board review provides Critical Care Examination style stems with an emphasis on being oriented toward Anesthesiology Critical Care certification, though examination preparation for the Internal Medicine (Pulmonary Critical Care), Neurocritical Care and Surgical Critical Care could easily be achieved with this text as part of one’s preparation strategy. The authors provide clinical vignettes with realistic images and values to test one’s diagnostic and critical thinking approach to the perioperative patient. Furthermore, every chapter is authored by a physician board certified in critical care medicine. While most authors are anesthesiologists, our text includes content from intensivists with core training in Surgery and Neurology in order to provide a well-rounded perspective on the cases in this book. Much like ICU
rounds, this book is systems based and covers the keywords listed by the American Board of Anesthesiology for certification in Critical Care Medicine. Finally, as each area of content is covered, reference materials are available for the reader to gain further expertise in each topical area. The author’s goal is the impart this text to the reader as a formidable tool for Critical Care Examination Preparation.

Anesthesiology: A Problem-Based Learning Approach
Tracey Straker (ed.), and Shobana Rajan (ed.)

Anesthesiology - A problem based learning discussion is a textbook which will give a comprehensive overview of general anesthesiology. The case based problem learning discussions allow for more interesting reading and possibly better retention of information. With progressive technology, advanced surgical procedures have been introduced, and confounding complications need to be anticipated and managed. Anesthetic technologies have also progressed and enhanced surgical advancements, This textbook will effectively address current surgical procedures and their anesthetic implications in evidence based learning approach. This textbook will undoubtedly be an asset to trainees, as well as practicing anesthesiologists.

Basic Anesthesiology Examination Review
George W. Williams and Erin S. Williams (eds)

Basic Anesthesiology Examination Review is a high-yield, streamlined study aid. The BAER Review is a text that is tailor made to cover the entire outline of the Basic Anesthesiology Examination (BAE) instituted by the American Board of Anesthesiology (ABA). Each chapter provides a concise content review of all items listed in the ABA outline as well as relevant images and diagrams. The design of the content of each of the chapters is optimized to facilitate early reading while covering each topic in a systematic fashion, while going far beyond being structured in a simple outline format. Furthermore, images are included in each chapter that are designed to be very memorable to facilitate retention of the content reviewed. Chapters conclude with questions and annotated answers, followed by key references and further reading. The questions are written with board preparation in mind, so as not to emphasize minutia but include content that the ABA could reasonably ask the examinee, With this book as a guide, readers will be able to efficiently prepare for the Basic Anesthesiology Examination.
This handbook aims to provide the information required for anaesthetic trainees looking after cardiac surgical patients and to provide a hands-on practical guide to what to do ‘on the spot’.

Cardiac Anesthesia: A Problem-Based Learning Approach
Mohammed Minhaj (ed.)

Cardiac Anesthesia: A Problem-Based Learning Approach provides a comprehensive review of the dynamic and ever-changing field of cardiac anesthesia. Its problem-based format incorporates a vast pool of practical case-related questions as well as multiple choice questions at the end of the chapter. 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 working through the nuances of a complicated clinical scenario. The discussion sections that follow in each chapter offer a comprehensive approach to the chapter’s subject matter, thus creating a modern, complete, and up-to-date medical review of that topic.

Cardiothoracic Critical Care (Oxford Specialist Handbooks in Critical Care)
Robyn Smith, Michael Higgins, and Alistair Macfie (eds)

Cardiothoracic Critical Care addresses major recent developments in cardiothoracic critical care, such as cardiovascular support, mechanical support (IABP, VADS, and ECMO), and drug therapies such as nitric oxide and other new inotropic agents. The management of postoperative bleeding is covered in detail, as it increasingly involves updated fluid and blood-product therapies, including blood preservation techniques such as cell salvage.

Challenging Concepts in AnaesthesiaCases with Expert Commentary
Phoebe Syme, Robert Jackson, and Tim Cook (eds)
Providing the inside track on how the experts approach and deal with real-world clinical scenarios, Challenging Concepts in Anaesthesia selects specific challenging cases that are encountered in everyday clinical practice but do not have simple answers. A case-based guide to challenging areas in anaesthesia and pain management, this resource covers the major sub-specialty areas in both fields. Complex cases are comprehensively examined from a multidisciplinary perspective with detailed consideration given to management options and the contemporary evidence base behind these decisions. Mapped to the Royal College of Anaesthetists’ matrix for CME and the FRCA syllabus, it is effective as both a revision aid and as a reference during workplace-based assessments, and it highlights critical information through the use of boxed features: 'Learning points', 'Clinical tips', 'Evidence-base'. Each chapter has been reviewed by a national or international expert in the field who has also provided an 'Expert commentary', giving a unique insight into how today's opinion leaders confront and deal with the very same management challenges that all clinicians can potentially face on a daily basis.

Chasing Pain: The Search for a Neurobiological Mechanism of Pain
Kenneth L. Casey

By several measures, no human experience is more important than pain. Chasing Pain discusses the evolution of scientific and clinical evidence that supports contemporary concepts of how pain is created by the nervous system. These concepts influence medical practice, neuroscientific research, and philosophical ideas about pain and other neurological functions. Historically, pain has been conceived as emerging either from an undefined pattern of neural activity or from anatomically localized and physiologically unique structures in the nervous system. Research during the early and middle 20th century showed that pain normally requires both sensory detectors of noxious events (nociceptors) and brain mechanisms that generate emotional experience. Realistic models of pain neurobiology must also consider that the normally tight link between pain and tissue damage is strongly affected by several neurological diseases, emotionally compelling circumstances, complex cognitive processes, and pain itself. As one example of physiological pain modulation, readers may access the author’s videos of surgery performed with acupuncture as the sole analgesic method. Chasing Pain reviews the neuroscientific research and clinical experience that has, over time, greatly enriched our understanding of pain neurobiology, guided medical practice, and influenced contemporary concepts of neurological functions. The limitations of our current conceptual models of pain are exemplified by considering several common, clinically challenging conditions that remain very poorly understood.