Basic Physiology For Anaesthetists

GLOVER GWENDOLYN

An Introduction to Cardiovascular Physiology Springer
Every trainee in anaesthesia requires a thorough understanding of basic physiology and its application to clinical practice. This comprehensively illustrated textbook bridges the gap between medical school and reference scientific texts. It covers the physiology requirements of the Primary FRCA examination syllabus. Chapters are organised by organ system, with particular emphasis given to the respiratory, cardiovascular and nervous systems. The practical question-and-answer format helps the reader prepare for the oral examination, while 'clinical relevance' boxes translate the physiological concepts to clinical practice. The authors include two medical physiologists and a Specialty Registrar in anaesthesia, and thereby bring a unique blend of expertise. This ensures that the book is up-to-date, accessible, and pitched appropriately for the trainee anaesthetist. Packed with easily understood, up-to-date and clinically relevant material, this convenient volume provides an essential 'one-stop' resource in physiology for junior anaesthetists.
Smith and Aitkenhead's Textbook of Anaesthesia E-Book CRC Press
Written and edited by experts in the field, the Handbook of Clinical Anaesthesia provides all the essential practical knowledge required by anaesthetists on co-existing medical conditions, operative procedures, and techniques. The fourth edition retains the concise and comprehensive nature of the third, giving readers all they need to know about each part of the FRCA syllabus in short, digestible, practical entries. The first part covers Patient Conditions; the second Surgical Procedures; and the third Anaesthetic Factors. Each part is subdivided into chapter on each organ system, and each chapter is divided into bite-sized entries. These are in alphabetical order, and cover all common and rare conditions that anaesthetists will encounter within their practice. Avoiding prolonged discussion and multiple references, this is the ideal book to ‘dip into’ either for specific advice or general education, providing quick and reliable information. This is the most thorough handbook to cover the entire FRCA syllabus in a consistent and instructive manner. It continues to be accessible and relevant to all anaesthetists from middle grade trainee up to consultant/specialist.
Basic Physiology Lippincott Williams & Wilkins
This book has been written to help candidates sitting their professional examination in anaesthesia in order that they may have at their disposal the detailed anatomical knowledge necessary for the day to day practice of anaesthesia. Unlike a textbook of anatomy, which must cover all parts of the body with equally exhaustive thoroughness, this book concentrates particularly on areas of special relevance to anaesthesia and points out features of practical importance to anaesthetic technique. The text is divided into nine sections; the respiratory pathway, the heart, the vertebral canal, the peripheral nerves; The Autonomic Nervous System; The Cranial Nerves; The Orbit and its contents; The Anatomy of Pain and Zones of Anaesthetic

Interest. The eighth edition has fully expanded and updated text; and includes new and improved illustrations.
Basic Physiology for Anaesthetists CRC Press
Basic Physiology is an introduction to vertebrate physiology, stressing human physiology at the organ level, and includ ing requisite anatomy integrated with function. One chapter deals solely with topographic anatomy in atlas form and microscopic anatomy of the principal tissues of the body. Additional chapters cover cellular and general physiology; nervous system, muscle; blood and tissue fluids, heart and circulation; respiration, digestion and absorption; intermedi ary metabolism; energy metabolism; temperature regulation; nutrition; kidney; endocrinology, including hypophysis, re production; thyroids, parathyroids, adrenals and pancreas. All concepts are emphasized and well illustrated, and con troversial material is omitted. It is written at a level suited to undergraduate students who have had introductory courses in biology, chemistry, and mathematics, and to more ad vanced students who wish to review the basic concepts of physiology. This volume should be especially useful as a text for de partments of biology, zoology, nursing, health, and agricul tural sciences that offer courses in vertebrate and human physiology. Basic Physiology is written by seven subject matter special ists who have considerable experience in teaching their specialty to undergraduates studying physiology and biology.
Basic Physiology for Anaesthetists Elsevier Health Sciences
Concise anatomical text and descriptions of procedures are supported by high-quality, anatomical illustrations linked to clinical images.
Principles of Physiology for the Anaesthetist Butterworth-Heinemann
What do anaesthetists do? How does anaesthesia work? What are the risks? And how does the anaesthetist know if you are really asleep? Anaesthesia is a mysterious and sometimes threatening process. In this Very Short Introduction, Aidan O'Donnell takes the reader on a tour through the whole of the modern anaesthetic practice. He begins by explaining general anaesthesia: what it is, how it is produced, and how it differs from natural sleep and other forms of unconsciousness. He goes on to consider the main categories of anaesthetic drugs, including anaesthetic vapours, intravenous agents, muscle relaxants, and analgesics, together with explanations of how they work and what their purpose is. Set against the historical background of anaesthetic and surgical practice, O'Donnell examines the large role anaesthetists play in specialised areas such as intensive care medicine, pain medicine, and childbirth; and finally, he considers the risks of anaesthesia, putting in to context that anaesthesia is a very safe process. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.
Anesthetic Pharmacology Academic Press
An Introduction to Cardiovascular Physiology is designed primarily for students of medicine and physiology. This introductory text is mostly didactic in teaching style and it attempts to show that knowledge of the circulatory system is derived from experimental observations. This book is organized into 15 chapters. The chapters provide a fuller account of microvascular physiology to reflect the explosion of microvascular research and include a discussion of the fundamental function of the cardiovascular system involving the transfer of nutrients from plasma to the tissue. They also cover major advances in cardiovascular physiology including biochemical events underlying Starling's law of the heart, nonadrenergic, non-cholinergic neurotransmission, the discovery of new vasoactive substances produced by endothelium and the novel concepts on the organization of the central nervous control of the circulation. This book is intended to medicine and physiology students.
Fundamentals of Anaesthesia Cambridge Scholars Publishing
Physics in Anaesthesiacovers the subject in an informative and accessible way from the very basics, catering especially for those who consider themselves non-physicists. This new edition has been comprehensively updated, but the content remains aligned with the FRCA syllabus.
Applied Anatomy for Anaesthesia and Intensive Care Lippincott Williams & Wilkins
A quick reference to basic science for anaesthetists, containing all the key information needed for FRCA exams.
Quick Draw Anatomy for Anaesthetists Fifty Studies Every Doctor Sho
Pharmacology and physiology are the foundation of every anesthesia provider’s training and clinical competency. Pharmacology and Physiology for Anesthesia: Foundations and Clinical Application, 2nd Edition, delivers the information you need in pharmacology, physiology, and molecular-cellular biology, keeping you current with contemporary training and practice. This thoroughly updated edition is your one-stop, comprehensive overview of physiology, and rational anesthetic drug selection and administration, perfect for study, review, and successful practice. Contains new chapters on Special Populations (anesthetic pharmacology in obesity, geriatrics, and pediatrics), Oral and Non-IV Opioids, Thermoregulation, Physiology and Pharmacology of Obstetric Anesthesia, Chemotherapeutic and Immunosuppresive Drugs, and Surgical Infection and Antimicrobial Drugs. Incorporates entirely new sections on Physics, Anatomy, and Imaging. Includes new information on consciousness and cognition, pharmacodynamics, the immune system, and anti-inflammatory drugs. Features user-friendly tables, figures, and algorithms (including 100 new illustrations), all presented in full color and designed to help explain complex concepts. Helps you understand the molecular mechanism of drug actions and identify key drug interactions that may complicate anesthesia with dedicated sections on these areas.
Applied Anatomy for the FRCA Cambridge University Press
The 'Oxford Handbook of Anaesthesia' continues to provide state of the art information on anaesthetic practice. The third edition has a new colour layout and includes new topics on risk, consent, organ donation, anaesthesia for the critically ill patient, and management of perioperative IV fluids.
Stoelting's Pharmacology & Physiology in Anesthetic Practice CRC Press
50 Studies Every Anesthesiologist Should Know presents key studies that have shaped the practice of anesthesiology. Selected using a rigorous methodology, the studies cover topics ranging from pain medicine, critical care, cardiothoracic anesthesiology to general anesthesiology. For each study, a concise summary is presented with an emphasis on the results and limitations of the study, and its implications for practice. Brief information on other relevant studies is provided, and an illustrative clinical case concludes the review. This book is a must-read for health care professionals in anesthesiology and pain medicine, and anyone who wants to learn more about the data behind clinical practice in anesthesiology, pain medicine, critical care and its broad subspecialties.
Anaesthetic Physiology and Pharmacology Scion Publishing Ltd
This book provides readers with an anaesthesia-focused alternative to general physiology textbooks. The new edition has been reorganised with the trainee anaesthesist in mind, into shorter bite-sized chapters ideal for exam revision. The content includes the physiology of all major organ systems, with specific emphasis on the nervous, respiratory, and cardiovascular systems as well as special sections on pain, aging, specific environments and obesity. Alongside the learning objectives, reflection points and a handy summary of physiological equations and tables, there is greater emphasis on clinical application in this fourth edition, with applied physiology included in almost every section.
Foundations of Anesthesia Elsevier Health Sciences
The second edition of Fundamentals of Anaesthesia builds upon the success of the first edition, and encapsulates the modern practice of anaesthesia in a single volume. Written and edited by a team of expert contributors, it provides a comprehensive but easily readable account of all of the information required by the FRCA Primary examination candidate and has been expanded to include more detail on all topics and to include new topics now covered in the examination. As with the previous edition, presentation of information is clear and concise, with the use of lists, tables, summary boxes and line illustrations where necessary to highlight important information and aid the understanding of complex topics. Great care has been taken to ensure an unrivalled consistency of style and presentation throughout.
Anaesthesia: A Very Short Introduction Springer Science & Business Media
Covers all of the equations that candidates need to understand and be able to apply when sitting postgraduate anaesthetic examinations.
Dr Podcast Scripts for the Primary FRCA Springer
Easily understood, up-to-date and clinically relevant, this book provides junior anaesthetists with an essential physiology resource.
Physics for Anesthesiologists Cambridge University Press
This definitive resource from the eminent Oxford Textbooks series, the Oxford Textbook of Anaesthesia addresses the fundamental principles, underpinning sciences and the full spectrum of clinical practice. It brings together the most pertinent research from on-going scientific endeavours with practical guidance and a passion to provide the very best clinical care to patients. This comprehensive work covers all aspects of anaesthesia; volume one addresses the fundamental principles and the basic sciences whose understanding is required for a logical, effective and evidence-based approach to practice. Volume two focuses on the clinical aspects of anaesthesia, including those aspects of intensive care and pain medicine that are required by all general anaesthetists as well as sections dedicated to procedures, surgical specialities, paediatrics, the conduct of anaesthesia outside the theatre, and concurrent disease. In 91 finely crafted and highly illustrated chapters, experts in anaesthesia review the supporting evidence and key techniques for the clinical management of specific conditions and patient groups. International contributors share their research and extensive experience to provide a wealth of practical advice for use in clinical situations in a global context. The Oxford Textbook of Anaesthesia will publish both in print and online on Oxford Medicine Online where it can be accessed via smartphone or similar devices and will be updated annually to reflect major changes in clinical practice. The print edition of the Oxford Textbook of Anaesthesia comes with a year's access to the online version. This essential reference tool supports all anaesthetists seeking an up-to-date and trustworthy account of all aspects of anaesthesia. It will be an indispensable guide to anaesthetists of all grades and subspecialty interest.
The Physiology Viva Cambridge University Press
This book discusses, explains and provides detailed, up-to-date information on physics applied to clinical practice in anesthesiology, with the aid of simple examples from daily life. Almost everything that happens around us, including in the operating room and intensive care units, can be explained by physical laws. An awareness and understanding of relatively simple laws such as Bernoulli’s theorem, Hagen-Poiseuille equation and Pascal’s principle, to name just a few, offer anesthesiologists and intensivists fascinating insights into why they do what they do. Each of the 16 chapters starts with an everyday phenomenon, explains it with a physical law, and then shows why that law is important in anesthesia practice. Numerous illustrations are included for extra clarity. It is intended for anesthesiologists, intensivists, anesthesia teachers, anesthesia trainees, and medical students.
Handbook of Clinical Anaesthesia, Fourth edition Oxford University Press
Arriving in the anaesthetic room for the first time can be a daunting experience. You will be closely supervised, but everything will seem very new. Surgery is a stressful life-event for the patient and your job as an anaesthetist is to make it as safe and as comfortable as you can whilst ensuring the best outcome possible. Anaesthesia is no longer the preserve of the medical anaesthetist. It increasingly features in undergraduate and postgraduate healthcare education, and many of the competencies required need to be attained quickly, in conjunction with new drugs and equipment. This guide provides practical and clinically relevant advice in easily understandable sections to give you confidence and prepare you for your days in theatre - without the complicated physiology, pharmacology and physics. It allows you to understand the most common drugs and provides a rationale for using them. It's the perfect quick, clinical reference for dealing with common problems and emergencies; ideal for everyday use. This book is invaluable for anaesthetists starting out in their career, but is also highly recommended for Foundation, ACCS, ICM trainees, medical students, operating department trainees and nurses. It also provides an excellent revision basis for Primary FRCA candidates. 'This book provides the basic background and ground rules for how anaesthetists work, how they approach a problem and how one can prepare for it. Some of the initial chapters could be usefully read by all surgeons, especially those in Foundation Training posts, and medical students considering an anaesthetic or intensive placement. The use of lists, key points and limited use of references help make the book easy to read, or dip into between cases, and keep it a manageable size whilst still providing a mine of information for the target audience.' From the Foreword by Peter Nightingale
Physics in Anaesthesia, Second Edition Scion Publishing Ltd
The definitive guide to this part of the FRCA exam.

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