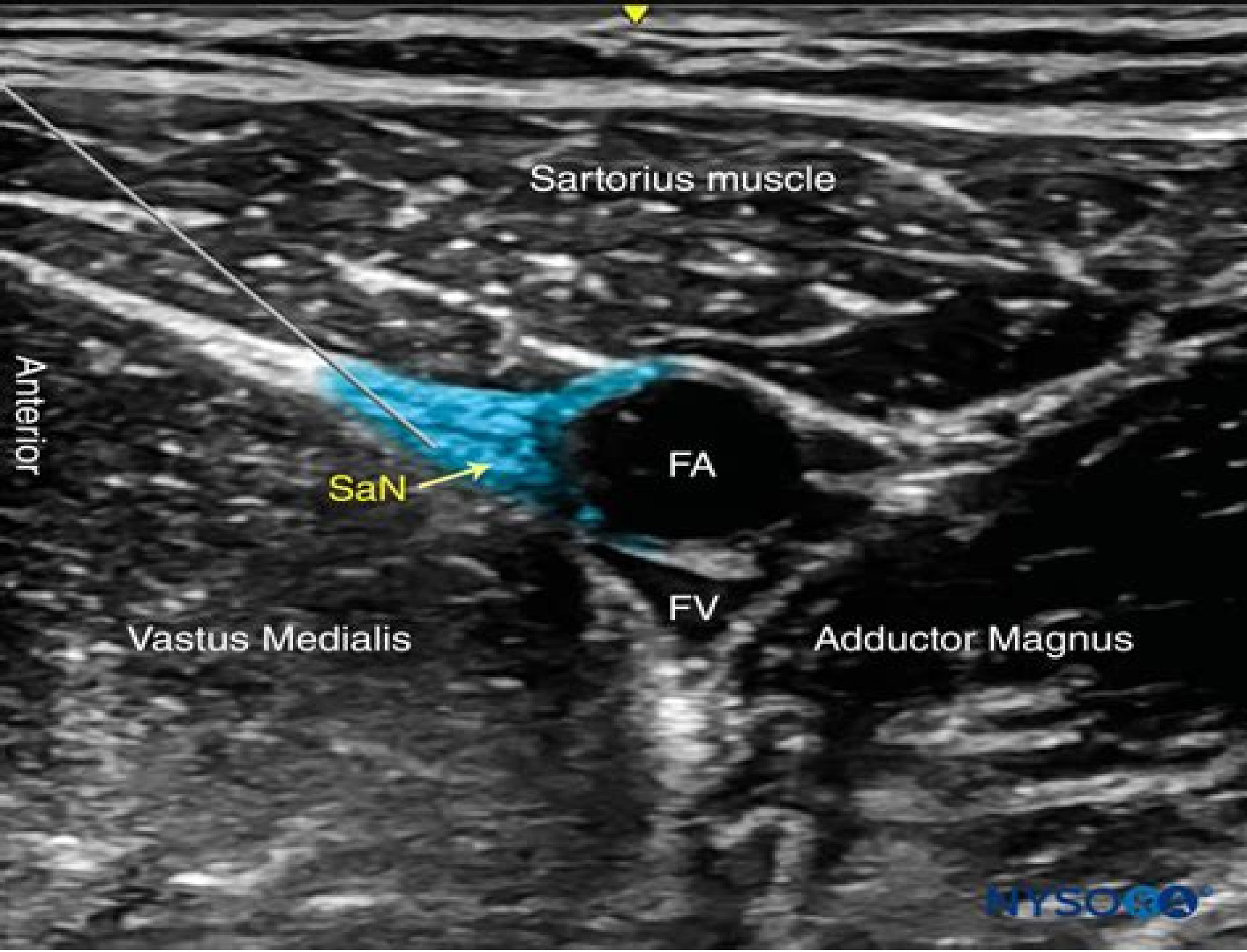
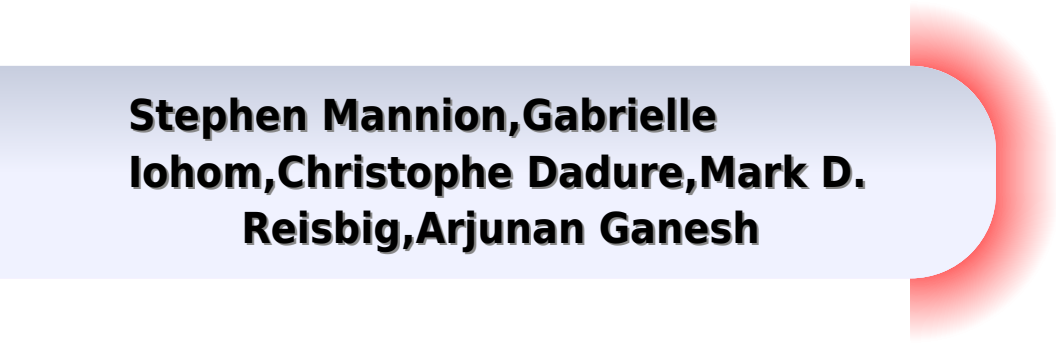




# Ultrasound Guided Adductor Canal Block

**Stephen Mannion, Gabrielle  
Iohom, Christophe Dadure, Mark D.  
Reisbig, Arjunan Ganesh**



## **Ultrasound Guided Adductor Canal Block:**

*EVALUATION OF ULTRASOUND-GUIDED ADDUCTOR CANAL BLOCK WITH TWO DIFFERENT CONCENTRATION OF BUPIVACAINE IN ARTHROSCOPIC KNEE SURGERY, CONTROLLED RANDOMIZED PROSPECTIVE STUDY. ,2017*

Background and Aims Ultrasound guided Adductor Canal Block ACB is an effective regional anesthesia technique that is often used as part of multimodal analgesia in knee surgeons In this study we aimed to determine ACB activity with bupivacaine in two different concentrations by comparing the control group and the block groups Methods This prospective randomized controlled double blinded study included three groups ACB 0.25 ACB 0.16 and control with 20 patients each ASA 1-2 aged 18 years due to undergo arthroscopic knee surgery All patients underwent the same general anesthesia regimen All blocks were performed pre operatively under sedo analgesia with the application of 15ml of local anesthetic 0.25 % and 0.16% respectively in experimental groups In control group no block was performed Pain intensity NRS PCA tramadol consumption and rescue analgesic requirements were noted for the first 24 hours Results There was no difference between demographic data or type of surgery While there was no difference in NRS score at any hour between the block groups tramadol consumption during the first 12 hours tramadol consumption were statistically significantly higher in the control group compared to both block groups The rescue analgesic requirement was similar in all groups Conclusions While ACB performed with concentrations of 0.25% and 0.16% bupivacaine in the same volume have the similar effect they improve analgesia quality in patients undergoing arthroscopic knee surgery when compared to a control group **Atlas of**

**Ultrasound-Guided Regional Anesthesia E-Book** Andrew T. Gray, 2018-03-05 Step by step images board style review questions and coverage of new blocks make this highly respected title a must have reference for clinical practice Written by Andrew T Gray MD PhD one of the pioneers of the use of ultrasound to guide needle placement Atlas of Ultrasound Guided Regional Anesthesia 3rd Edition shows you how to safely and effectively use the latest methods and applications of this technique Helps ensure correct needle placement with numerous 3 D and long axis views that clearly depict surrounding structures Includes coverage of 11 new blocks Adductor Canal Posterior Femoral Cutaneous Pectoral Quadratus Lumborum Pudendal Paravertebral Transversus thoracis Supraorbital Transtracheal Greater Occipital and Lesser Occipital Features access to 20 author narrated videos showing proper placement of needles using ultrasound guidance including 11 new videos Forearm ulnar median and radial Ankle tibial saphenous superficial peroneal deep peroneal sural Paravertebral Adductor Canal and Catheters Presents several new chapters including Regional Anesthesia in Resource Constrained Environments and Safety of Ultrasound Guided Regional Blocks Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices Atlas of Ultrasound-Guided Regional Anesthesia - E-BOOK Andrew T. Gray, 2025-09-01 Written by one of the pioneers of the use of ultrasound to guide needle placement Dr Andrew T Gray s Atlas of Ultrasound Guided Regional Anesthesia 4th Edition

remains the reference of choice for clinicians who use ultrasound guided technology to administer regional blocks Step by step videos and images board style review questions and discussions of new blocks make this highly respected title a must have reference for anesthesiologists pain medicine specialists nurse anesthetists and emergency physicians anyone who requires expert guidance on the latest methods to ensure safe and effective needle placement Helps ensure correct needle placement with numerous 3 D and long axis views that clearly depict surrounding structures Contains nine new chapters Ultra High Frequency UHF Ultrasound PENG Block iPACK Block External Oblique Intercoastal EOI Block Serratus Anterior Plane Block Erector Spinae Plane ESP Block Suprazygomatic Maxillary Nerve Block Ultrasound Guided Percutaneous Cryoneurolysis for Acute Pain Artificial Intelligence AI in Ultrasound Guided Regional Anesthesia Includes numerous high quality anatomy illustrations photographs demonstrating patient positioning and ultrasound images demonstrating anatomy and needle placement Features an expanded video collection with step by step guidance of ultrasound guided techniques including video flips for PENG rectus sheath maxillary nerve sciatic nerve blocks and more Includes newly revised board style review questions to help test your knowledge and prepare you for the ABA exam Any additional digital ancillary content may publish up to 6 weeks following the publication date Several new chapters Ultrasound Ultra High Frequencies UHF Artificial Intelligence in Regional Anesthesia AI Fascia Periarticular Injections in the Hip Region iPack Block Parasternal Block and more Expanded video collection covering the latest methods and techniques Ultrasound-Guided Regional Anesthesia in Children Stephen Mannion, Gabrielle Iohom, Christophe Dadure, Mark D. Reishig, Arjunan Ganesh, 2015-08-20 The most comprehensive resource available on pediatric ultrasound guided regional anesthesia covering core principles and practical guidance for all major blocks Essentials of Regional Anesthesia Alan David Kaye, Richard D. Urman, Nalini Vadivelu, 2018-03-28 The management of pain can often be achieved by medications physical therapies or by various procedural techniques that have evolved in recent decades With the trend towards more outpatient surgeries and less invasive surgeries to decrease perioperative risk perioperative time and costs the practice of anesthesia is evolving to utilize regional anesthesia techniques both for inpatients and outpatients Regional anesthesia is being performed for outpatient surgeries obstetric anesthesia trauma chronic pain states and for acute post operative pain management Therefore it is paramount for physicians and nurses practicing anesthesia to understand the essentials of regional anesthesia its evolving techniques and appropriate utilization of modern equipment and technology to provide care safely Essentials of Regional Anesthesia Second edition is a concise up to date evidence based handbook that enables every resident physician and nurse to understand the basics of regional anesthesia and the standard of care guidelines for the practice of regional anesthesia in a comprehensive fashion This new edition includes Updated and new chapters on Ambulatory Critical Care and Obstetrics topics Full color clear detailed anatomic drawings Clinically relevant practical aspects of regional anesthesia International contributing authors who are experts in their field Latest ultrasound techniques and images Review of 1st edition There are

many books available on regional anesthesia and the trend is either to focus on illustrations forgoing any discussion or on text descriptions making them bulky and hard to read. This book maintains that perfect balance between text and illustrations. It is truly a master companion book on regional anesthesia. Tariq M Malik Doody's Book Reviews April 2012

**Insall & Scott Surgery of the Knee E-Book** W. Norman Scott, 2017-02-10. Insall Quality and Payment Paradigms for TKA Anesthesia Specific for Knee Surgery and Preoperative Assessment. Perioperative Management and Postoperative Pain Control. An expanded Adult Reconstruction Section informs readers about Enhanced Primary Revision and the treatment of Peri prosthetic fractures in TKA. Includes enhanced worldwide approaches for all aspects of disorders of the knee from nearly 400 contributors worldwide. Boasts updated pediatric knee considerations and updated tumor surgery principles for the treatment of tumors about the knee. Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, images, videos, including video updates, glossary, and references from the book on a variety of devices.

**Atlas of Ultrasound-Guided Regional Anesthesia** Andrew T. Gray, 2009-10-20. Atlas of Ultrasound Guided Regional Anesthesia by Andrew T Gray MD PhD shows you how to get the maximum benefit from this technique while at the same time increasing your efficiency and ensuring patient safety. Dr Gray, a pioneer of ultrasound guidance in regional anesthesia, demonstrates step by step a full range of nerve block techniques designed to help you improve the quality and success rate of regional blocks. A companion Expert Consult site features videos of regional blocks performed under ultrasound guidance. Presents coverage of each block through a consistent organization that makes it easy to locate the information you need and allows for better learning. Offers review style questions that test your knowledge and competence and offer an excellent tool for ABA board exam preparation. Includes more than 400 figures for visualization of the nerves and surrounding structures. Includes a companion Expert Consult site featuring videos of regional blocks performed under ultrasound guidance for enhanced visual learning.

**Long-term Analgesic Efficacy of an Ultrasound Guided Single-shot Adductor Canal Block in Patients Undergoing Total Knee Arthroplasty** Yanzi Zhang, 2017. Background and objectives: Both single shot and continuous adductor canal blocks (ACB) have shown promise in reducing postoperative pain in total knee arthroplasty (TKA) patients. In this prospective randomized and placebo controlled study, we compared analgesic efficacy when given as a single shot vs continuous technique with intermittent boluses during the postoperative period. Methods: 75 patients presenting for primary unilateral TKA received preoperatively an ultrasound guided single shot ACB and indwelled postoperatively an adductor canal catheter. Those patients were randomly received a preoperative single shot of ropivacaine 0.5% 20ml following intermittent saline boluses at 12h and 24h postoperatively. S-ACB group or ropivacaine 0.5% 20ml preoperatively 12h and 24h postoperatively. C-ACB group or saline preoperatively and postoperatively control group. The primary outcome was pain with movement on postoperative Day 1 and Day 2. Other endpoints included static pain scores, quadriceps muscle strength, rescue opioid consumption, cost incurred, and patient satisfaction. Results: Both

ACB techniques were equally effective in diminishing dynamic pain and reducing the side effects normally associated with Pethidine Hydrochloride Dynamic pain scores of the two ACB groups were lower than those of the control group S ACB C ACB vs Control group 4 0 3 0 vs 5 0 p      Atlas of Ultrasound-Guided Regional Anesthesia Andrew T. Gray, MD, 2012-09-24 Safely and effectively perform regional nerve blocks with Atlas of Ultrasound Guided Regional Anesthesia 2nd Edition Using a wealth of step by step videos and images Dr Andrew T Gray shows you how to use the latest methods to improve the success rate of these techniques I have read a lot of atlas type books and this is one of the best such books that I have seen It is difficult to see how it could be improved Reviewed by N D Edwards on behalf of The British Journal of Anaesthesia Sept 2014 Master essential techniques through step by step videos demonstrating paravertebral block transversus abdominis block psoas nerve block subgluteal nerve block and more Test your knowledge and prepare for the ABA exam with board style review questions Ensure correct needle placement with numerous 3 D and long axis views that clearly depict surrounding structures Update your skills with completely rewritten chapters on Infraclavicular Neuraxial and Cervical Plexus Blocks as well as entirely new chapters on Fascia Iliaca Anterior Sciatic Transversus Abdominis Plane TAP and Stellate Ganglion Blocks Review a full range of nerve block techniques in an easy to follow step by step manner using new quick reference summary tables View author narrated videos and access the complete contents online at [www.expertconsult.com](http://www.expertconsult.com) assess your knowledge with the aid of a new turn labels off feature for each image      *Acute Pain Medicine* Chester C. Buckenmaier III, Michael Kent, Jason C. Brookman, Patrick J. Tighe, Edward R. Mariano, David Edwards, 2019-04-02 Acute Pain Medicine is the first comprehensive case based text of its kind that explores the essential topics of acute pain medicine including interventional pharmacologic and diagnostic considerations Written and edited under the auspices of the American Academy of Pain Medicine by members of the Academy's Shared Interest Group for Acute Pain Medicine the text includes an introduction to acute pain medicine and an easily referenced interventional section Chapters focus on patients experiencing acute pain from either surgery or other medical conditions and include detailed information on the diagnosis and treatment of specific cases in acute pain medicine The text is rounded out by the complete content of the thoroughly revised Military Advanced Regional Anesthesia and Analgesia Handbook MARAA II Although the MARAA handbook gained its reputation as a useful resource for managing the pain associated with battlefield trauma its beautifully illustrated step by step guidance is useful for providing vital acute pain services in all settings Acute Pain Medicine is an ideal complete resource for physicians fellows and residents managing acute pain patients      *Atlas of Interventional Pain Management - E-BOOK* Steven D. Waldman, 2025-07-13 Deliver safe accurate and cost effective relief for patients with acute chronic and cancer pain with the fully revised Sixth Edition of Atlas of Interventional Pain Management This essential resource by Dr Steven D Waldman is ideal for pain medicine clinicians at all levels of practice and training providing comprehensive easy to follow guidance that walks you step by step through each procedure All clinically appropriate imaging modalities are represented giving you the

tools you need to achieve the best possible outcomes for more than 160 nerve block procedures ranging from simple to advanced Focuses on the how rather than the why of interventional pain procedures offering an abundance of high quality full color illustrations to demonstrate the best technique Keeps you up to date with 23 brand new chapters including cervical retrolaminar block pericapsular nerve group block at the shoulder dorsal scapular nerve block mid point transverse process to pleura block sacral plexus blocks iPACK block basivertebral nerve ablation percutaneous interspinous spacers and more Incorporates all clinically useful imaging modalities that increase needle placement precision including expanded content on office based ultrasound guided techniques fluoroscopy and computed tomography guided procedures Provides indications clinically relevant anatomy technique side effects and complications and clinical pearls for each procedure as well as risks and benefits potential pitfalls and updated CPT codes Clearly illustrates the anatomical targets for each procedure and the appropriate needle placement and trajectory used to reach each target including where the needle should not go Features more than 2 600 figures 430 new including color line drawings photographs radiographs ultrasound CT and MRI to provide you with a firm grasp of the anatomy involved with each procedure Includes access to procedural videos covering cervical translaminar epidural block cervical paravertebral medical branch block percutaneous facet fusion lumbar transforaminal epidural block and more Any additional digital ancillary content may publish up to 6 weeks following the publication date

**Bonica's Management of Pain** Jane C. Ballantyne, Scott M. Fishman, James P. Rathmell, 2018-11-19 Publisher's Note Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality authenticity or access to any online entitlements included with the product This exhaustively comprehensive edition of the classic Bonica's Management of Pain first published 65 years ago expertly combines the scientific underpinnings of pain with clinical management Completely revised it discusses a wide variety of pain conditions including neuropathic pain pain due to cancer and acute pain situations for adults as well as children An international group of the foremost experts provides comprehensive current clinically oriented coverage of the entire field The contributors describe contemporary clinical practice and summarize the evidence that guides clinical practice *Ultrasound Guided Regional Anesthesia* Stuart A. Grant, 2016 This book provides a detailed stepwise approach to performing ultrasound guided regional anesthesia identifying pearls and pitfalls to ensure success Basic principles are covered followed by techniques for upper extremity lower extremity and chest trunk and spine nerve blocks Each nerve block is comprehensively explained divided up by introduction anatomy clinical applications technique alternate techniques complications and pearls *Blockmate* Arunangshu Chakraborty, 2020-12-07 This is a highly informative and carefully presented book for trainees and postgraduate students of anaesthesiology as well as practicing clinicians This book aims to help them in selecting and implementing the most suitable regional block in each clinical scenario and successfully use the techniques of ultrasound guided regional anaesthesia USRA in their practice This book covers basics of ultrasound imaging anatomical aspects and techniques of all nerve blocks that are commonly used in clinical

practice in a lucid and illustrated presentation Regional anaesthesia can be a safe alternative to general anaesthesia When combined with general anaesthesia it can provide excellent postoperative analgesia too With the advent of ultrasound the scope safety and reliability of regional anaesthesia have expanded manifold However there is a lack of formal clinical training in regional anaesthesia in most of the anaesthesia postgraduate curricula and this book intends to bridge this gap The book serves as a useful resource to the anaesthetist trainee or practitioner who wants to master the nerve blocks **Miller's**

**Anesthesia, 2-Volume Set E-Book** Michael A. Gropper, Lars I. Eriksson, Lee A. Fleisher, Neal H. Cohen, Kate Leslie, Oluwaseun Johnson-Akeju, 2024-07-18 Selected for 2025 Doody's Core Titles with Essential Purchase designation in Anesthesiology Pain Medicine Offering up to date coverage of everything from historical and international perspectives to basic science and today's clinical practice Miller's Anesthesia 10th Edition remains the 1 reference and trusted learning resource for practitioners and trainees in this complex field Dr Michael Gropper leads a team of expert editors and contributing authors who provide current information on the technical scientific and clinical issues you face each day whether you're managing a challenging patient care situation preparing for the boards or studying for recertification Addresses timely topics alongside foundational basic science for an in depth and comprehensive understanding of the field Contains thoroughly up to date content including two new chapters The Immune System Implications for Anesthetic Management and Emergency Preparedness in Healthcare Provides new content in key areas such as sustainability global health equity the effect of anesthetics on immune function anesthesia for special populations coverage of infectious diseases including COVID 19 and occupational exposure and safety Offers state of the art coverage of anesthetic drugs guidelines for anesthetic practice and patient safety new techniques step by step instructions for patient management the unique needs of pediatric patients and much more all highlighted by more than 1 200 full color illustrations 300 new to this edition for enhanced visual clarity Includes 40 video clips demonstrating patient positioning ultrasound echocardiograms and other imaging and anesthetic procedures in real time *Brown's Atlas of Regional Anesthesia, E-Book* Ehab Farag, Loran

Mounir-Soliman, 2020-06-12 Trusted by anesthesiologists nurse anesthetists and pain management specialists through five outstanding editions Brown's Atlas of Regional Anesthesia 6th Edition continues to keep you fully informed and up to date in this fast changing field This practical how to guide demonstrates each technique in an easy to follow manner providing unmatched guidance on administering a wide range of nerve block techniques in all areas of the body New videos new illustrations and new chapters improve your knowledge and expertise helping you provide optimal safe regional anesthesia to every patient Covers the full range of key regional anesthesia topics including anatomy local anesthetic pharmacology traditional landmark based and ultrasound guided blocks pediatric regional anesthesia and chronic pain procedures Features step by step instruction highlighted by superb artwork new anatomical drawings and clinical photographs now entirely in full color Includes access to a video library that includes numerous new videos covering every block described in the atlas a new

introductory video on daily clinical practice procedures and enhanced voiceover on all videos Contains an all new section on obstetric regional anesthesia plus new coverage of pic block serratus anterior block erector spinae block stellate ganglion block rectus sheath catheter block and pediatric pudendal nerve block with significant updates to pharmacology sections Presents a wide variety of images to help you develop a 3 dimensional concept of anatomy essential to successful regional anesthesia cross sectional anatomy illustrations of gross and surface anatomy and ultrasound CT and MRI scans Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices     Faust's Anesthesiology Review Mayo Foundation for Medical Education,2019-01-23

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Jeffrey Apfelbaum,2014-06-28 Ambulatory anesthesia is used for surgical procedures where the patient does not need to stay overnight in the hospital The same anesthetics that are used in the operating room setting are used in the ambulatory setting including general regional and local anesthetics Sedation anesthetics are also given in the ambulatory setting This issue will cover best practices and procedures for perioperative care regional anesthesia pediatric anesthesia administering office anesthesia and more     DeLee & Drez's Orthopaedic Sports Medicine E-Book Mark D. Miller,Stephen R.

Thompson,2018-12-20 Indispensable for both surgeons and sports medicine physicians DeLee Drez a streamlined organization for quick reference in depth coverage of arthroscopic techniques extensive references levels of evidence at the end of each chapter and Author's Preferred Technique sections Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices

Perioperative Medical Management for Total Joint Arthroplasty Andrea Baldini,Patrizio Caldora,2014-11-01 This volume describes the most recent medical guidelines for perioperative management in arthroplasty with the aim of facilitating excellent control of bleeding thrombosis pain and infection For each area hemostasis control pain control and infection

control hot topics of key practical importance are discussed and contrasting perspectives are presented on controversial issues covering the views of different practitioners and specialties Using the information contained in this book the practitioner will be in an excellent position to meet the principal goals of perioperative medical management The information provided will assist in the choice of a multimodal guideline that minimizes the complication rate regarding bleeding and thromboembolism while not interfering with the patient s recovery Similarly effective means of pain control and an optimized pain control protocol are discussed with a view to shortening hospital stay and achieving functional milestones that meet the patient s expectations Finally host wound and environmental factors relevant to infection and its prevention are explained with discussion of the best means of prophylaxis treatment and imaging Surgeons anesthesiologists and all medical practitioners and staff involved in the field of total hip and knee arthroplasty will find this book to be of value in their daily clinical practice It will assist in the provision of enhanced medical management that ensures quicker recovery of the patient with fewer complications

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