

Ultrasound Guided Regional Anaesthesia

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[Atlas of Ultrasound- and Nerve Stimulation-Guided Regional Anesthesia](#) Cambridge University Press Enables the viewer to discuss the basic fundamentals of ultrasound physics and instrumentation; explain the advantages of using ultrasound-guided nerve block techniques; identify the topographic and cross-sectional anatomy for upper extremity nerve block sites using ultrasound; and to demonstrate techniques for performing ultrasound-guided anesthesia applications including interscalene blocks (brachial plexus), infraclavicular blocks, axillary blocks, and musculocutaneous blocks.

[Ultrasound Guidance in Regional Anaesthesia](#) McGraw Hill Professional

Regional anesthesia is a fast-growing field, fuelled by the application of ultrasound technology over the last decade. This book is a technique-oriented guide, which introduces the use of ultrasound technology with practical instruction in the placement of peripheral nerve blocks and continuous perineural catheters. Each procedure is summarized for quick, easy reference, and supplemented by ultrasound images, color photos, and detailed illustrations. Helpful hints and instructions are provided to further optimize block success. Chapters are organized into four sections, focusing on introductory concepts, upper extremity peripheral nerve blocks, lower extremity peripheral nerve blocks and continuous perineural catheters. Written by instructors from a major academic medical center who work in a fast-paced ambulatory setting, this is a key text for residents, fellows and staff physicians who wish to incorporate the use of ultrasound into the scope of their anesthetic practice.

[The BOOK of Ultrasound-Guided Regional Anesthesia](#) Springer

In recent years the field of regional anesthesia, in particular peripheral and neuraxial nerve blocks, has seen an unprecedented renaissance following the introduction of ultrasound-guided regional anesthesia. This comprehensive, richly illustrated book discusses traditional techniques as well as ultrasound-guided methods for nerve blocks and includes detailed yet easy-to-follow descriptions of regional anesthesia procedures. The description of each block is broken down into the following sections: definition; anatomy; indications; contraindications; technique; drug choice and dosage; side effects; potential complications and how to avoid them; and medico-legal documentation. A checklist record for each technique and a wealth of detailed anatomical drawings and illustrations offer additional value. [Regional Nerve Blocks in Anesthesia and Pain Medicine](#) provides essential guidelines for the application of regional anesthesia in clinical practice and is intended for anesthesiologists and all specialties engaged in the field of pain therapy such as pain specialists, surgeons, orthopedists, neurosurgeons, neurologists, general practitioners, and nurse anesthetists.

[Ultrasound Guided Regional Anesthesia](#) Oxford University Press

This second edition of the well-illustrated practical handbook provides a concise summary of the basics of ultrasound technology, and includes the most recent knowledge in the topic of ultrasound in regional anaesthesia.

[Regional Anaesthesia, Stimulation, and Ultrasound Techniques](#) Springer

"Hadzic's Peripheral Nerve Blocks delivers practical, state-of-the-art guidance for all major nerve block procedures, including ultrasound-guided nerve blocks. A standardized, user-friendly presentation provides meticulous, step-by-step instructions for each procedure. The second edition has been completely updated to include new developments, the latest equipment, and hundreds of new photographs"--Provided by publisher.

[An Introductory Curriculum for Ultrasound-Guided Regional Anesthesia](#) Elsevier Health Sciences

Get up-to-date on all of the techniques that are rapidly becoming today's standard of care with [Ultrasound-Guided Regional Anesthesia and Pain Medicine, 2nd Edition](#). With this extensively revised edition, you'll see how the increased use of ultrasound for diagnosis and treatment of chronic pain and other medical conditions can transform your patient care. Noted authorities discuss the techniques you need to know for upper and lower extremity blocks, truncal blocks, pain blocks, trauma and critical care, and more.

[Hadzic's Peripheral Nerve Blocks and Anatomy for Ultrasound-Guided Regional Anesthesia](#) Elsevier Health Sciences

With a focus on anatomy and sonoanatomy, this beautifully illustrated updated edition captures the latest advances in the rapidly growing field of ultrasound-guided pain medicine and MSK procedures. This atlas is divided into seven sections that provide an overview and focus on interventional approaches and advancements. Authored by international experts, each clinical chapter features a maximal number of instructive illustrations and sonograms and provides a description of sonoanatomy, instructions on performing the procedure and how to confirm appropriate needle placement. This book will help encourage and stimulate physicians to master approaches in interventional MSK and pain management.

[Military Advanced Regional Anesthesia and Analgesia Handbook](#) Oxford University Press, USA

The Mayo Clinic Atlas of Regional Anesthesia and Ultrasound-Guided Nerve Blockade is a practical guide that vividly illustrates a systematic approach to regional anaesthesia of the upper and lower extremity while providing a comprehensive overview of the fundamental principles of ultrasonography, relevant Sonoanatomy of the upper and lower extremity, and the technical skills necessary to become clinically proficient at ultrasound-guided regional anaesthesia.

[Regional Anaesthesia](#) Springer Science & Business Media

The fourth edition of this highly successful textbook discusses the practical applications of the various methods of regional anaesthesia, including ultrasound, as well as giving an account of their theoretical aspects. The well-established author team use their experience to provide a practical and stimulating book which reflects everyday clinical activity, supplemented by high definition ultrasound images and schematic diagrams. The book will also discuss the place of regional anaesthesia in current medical practice, particularly with regard to pain processes, ultrasound imaging, and patient outcomes. Regional anaesthesia is a rapidly expanding subspecialty of anaesthesia: routine provision of long-lasting pain relief and the introduction of real-time ultrasound block has fuelled a demand for cadaver and ultrasound-based anatomy training courses. Thus, it is more important than ever to have a thorough grounding in this exciting subspecialty.

[Atlas of Ultrasound-Guided Regional Anesthesia E-Book](#) OUP Oxford

The concept of using Doppler ultrasound to guide regional anaesthesia performance was first described in 1978. It was, however, the introduction into clinical practice in the last 15 years of

portable, affordable, high resolution, bedside ultrasound machines that has revolutionised the practice of regional anaesthesia. Visualising anatomical structures, and guiding a needle to target structures under direct ultrasound guidance, is now considered best practice. Ultrasound-guided regional anaesthesia, compared to traditional nerve localisation techniques such as nerve stimulation and paraesthesia, has been shown to improve efficacy and efficiency, and reduce the risk of local anaesthesia systemic toxicity and pneumothorax. Ultrasound has allowed the introduction of novel approaches to thoracoabdominal and neuraxial blocks. This imaging technique is increasingly being used in pain medicine, complementing and in some instances replacing, the image intensifier and computed tomography-guided interventional procedures. In contrast, novices attempting ultrasound guided regional anaesthesia exhibit suboptimal behaviours, including visual-spatial disorientation, rigid procedural thinking, and needle manipulation without confirmation of positioning. The root problem is that teaching of regional anaesthesia is variable in quality and is non-systematic. The reasons are complex, but include variability in supervision, worsening production pressures in busy tertiary hospitals curtailing time for teaching, shortening of trainee training times, and resistance by clinicians for new techniques. Compounding these problems was a lack of validated, reliable and objective tools to assess ultrasound-guided regional anaesthesia performance. This is addressed in the first four studies of this thesis. Studies 1 and 2 evaluated the psychometric properties of the direct observation of procedural skills assessment tool used in the current training curriculum of the Australian and New Zealand College of Anaesthetists. I found that inter-assessor reliability is poor, which has important consequences as this tool is used for trainee assessment and structured feedback. Study 3 evaluated a checklist and global rating scale designed specifically for ultrasound-guided regional anaesthesia. This tool showed good construct validity, and that a deconstructed, itemised checklist is useful for teaching complex skills such as regional anaesthesia. Study 4 described the design, creation, and validation of the Regional Anaesthesia Procedural Skills (RAPS) assessment tool. RAPS has evidence for face validity, construct validity, test-retest reliability, external reliability, and feasibility as an assessment tool for all regional anaesthesia blocks, including ultrasound-guided techniques. The RAPS tool can thus be used for clinical assessment of trainees, as well as a reliable measure of performance in participants in education research. The next two studies investigated factors by which training in ultrasound-guided regional anaesthesia can be improved. Study 5 was a randomised controlled trial comparing whether fresh-frozen human cadavers were superior to meat-based models for teaching ultrasound guided regional anaesthesia. I found that while face validity and qualitative satisfaction was superior for cadavers, there was no quantitative difference in efficacy, efficiency or errors committed in a part-task technical skills test. Study 6 was an exploratory study in whether visuospatial ability influences sonography performance. In novices performing brachial plexus sonography and reliant only on discovery learning, three visuospatial factors were found to be influential: spatial visualisation, spatial relations, and speed of closure. The standardised visuospatial test battery can thus identify novices who will likely struggle with sonography. This opens an avenue for training tailored to an individual's strengths and weaknesses.

Elsevier

[Regional Anaesthesia, Stimulation, and Ultrasound Techniques](#) is a comprehensive overview of this exciting sub-specialty addressed in the Oxford Specialist Handbook format. Over 200 illustrations and 50 chapters provide practical guidance and tips.

[Ultrasound-guided Regional Anesthesia and Pain Medicine](#) Springer Science & Business Media

This comprehensive, highly didactic book on ultrasound-guided regional anesthesia (peripheral, neuraxial and perineuraxial nerve blocks) presents meticulously labeled images, diagrams and picture-in-picture samples and includes high-quality, vignettted illustrations that are consistent in style. The ultrasound images are outstanding and carefully selected to demonstrate the most clinically relevant situations. Importantly, they have a real-world appearance, including actual needle paths and desired disposition of injectate during nerve block procedures; most are from the original database of Dr. Eisenberg. All the supplementary material is authoritative and presented as an artful balance of years of clinical experience and a summary of the peer reviewed literature. [Ultrasound in Peripheral, Neuraxial and Perineuraxial Regional Anaesthesia](#), accompanied by richly illustrated material and videos of state-of-the-art techniques, is of interest to anyone interested in learning, furthering their existing knowledge of, or teaching ultrasound-guided regional anesthesia.

[Atlas of Ultrasound- and Nerve Stimulation-Guided Regional Anesthesia](#) Springer Nature

A longtime standard for military healthcare personnel, the second edition of [Military Advanced Regional Anesthesia and Analgesia Handbook \(MARAA\)](#) has been thoroughly revised and updated. Although the MARAA handbook initially gained its reputation as a useful resource for managing pain associated with battlefield trauma, its beautifully illustrated step-by-step guidance provides pertinent and practical guidance for managing vital acute pain services in all civilian and military clinical settings. Opening chapters review equipment, local anesthesia and additives, and physics of ultrasound and nerve stimulation. Much of the book is devoted to step-by-step guidance on performing various regional anesthesia nerve blocks organized by pertinent neuroanatomy, use of nerve stimulation, and use of ultrasound. The concluding group of chapters discusses organization of the acute pain service and staff, a review of multidisciplinary care, basics of pediatric regional anesthesia, first-aid acupuncture, and more.

[Ultrasound-guided Regional Anesthesia for the Lower Extremities](#) SACAR

[Regional Anaesthesia: A Pocket Guide](#) is an essential companion to the practice of regional anaesthesia for consultants and trainees in the specialty. Filled with practical advice and carefully designed for ease of use, this book is the helpful aid to practice that anaesthetists have been waiting for. The book covers all the major blocks by anatomical region, from the head and upper extremities, to the lower extremities and para-axial region. The technique for each procedure is prefaced by information on its difficulty, indications, contraindications, and potential side-effects. Every procedure is also accompanied by a range of high-quality clinical photographs and anatomical drawings that demonstrate the importance of applying anatomical knowledge in practical anaesthetic procedures. Regional anaesthesia is a fast-moving specialty, and this book takes into account recent advances in ultrasound-guided techniques with a strong focus on real-time observation of needle placement. Landmark-placed blocks have are also covered for clinicians without access to ultrasound technology. [Regional Anaesthesia: A Pocket Guide](#) is a unique compilation of anaesthetic techniques that offers support and guidance for any trainee or specialist in their every day practice.

[Development of a Learning Module for Ultrasound Guided Regional Anesthesia](#) Springer

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.

Complications of Ultrasound-guided Regional Anesthesia Cambridge University Press

Ultrasound technology is enabling anesthesiologists to perform regional anesthetic procedures with greater confidence in accuracy and precision. With improvements in visualizing neural anatomy and needle movement, ultrasound guidance improves patient safety and operating room efficiency. This book offers a detailed, stepwise approach to this technique, identifying pearls and pitfalls to ensure success. Chapters are organized into four sections. The first section provides the basic principles behind ultrasound guided regional anesthesia, setting a strong context for the rest of the book. The last three cover the nerve blocks: upper limb, lower limb, and trunk and spine. Each nerve block is comprehensively explained, divided up by introduction, anatomy, clinical applications, technique, alternate techniques, complications, and pearls. This book provides authoritative, in-depth coverage of ultrasound guided regional anesthesia for the anesthesiologist beginning to use ultrasound and makes a great reference for the more seasoned.

[Ultrasound-Guided Regional Anesthesia](#) McGraw-Hill Professional

Ultrasound Guided Regional Anesthesia Oxford University Press

Education and Training in Ultrasound-guided Regional Anaesthesia (UGRA). Springer Science & Business Media

Ultrasonographic guidance for regional anaesthetic blocks is an innovative technique that allows for the direct visualization of nerves, adjacent structures and the position of the needle, as well as for the precise observation of the spread of local anaesthetic. The advantages of the technique allow for the exact administration of moderate volumes of local anaesthetic, reducing the risk of complications. Written by a physician with 16 years' experience in ultrasound-guided regional anaesthesia, this second edition of the well-received practical handbook provides a concise summary of the basics of ultrasound technology and the most recent techniques in the use of ultrasound to guide peripheral nerve blocks, focusing specifically on ultrasound-guided peripheral nerve block techniques. All chapters have been carefully revised to provide the most recent knowledge in the topic of ultrasound in regional anaesthesia. A strong focus has still been attached on anatomical descriptions and subsequent practical implementations. Paediatric applications are now included in this new edition to aid paediatric anaesthesiologists, as well as the incorporation of neuraxial techniques to complete the entire topic. With illustrated colour images throughout, this book is highly relevant to anaesthesiologists and pain specialists with an interest in regional anaesthesia.

A Pocket Guide to Ultrasound-Guided Regional Anaesthesia McGraw Hill Professional

Step-by-step videos and 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. Board-style review questions found on the Expert Consult eBook version test your knowledge and help you prepare for the ABA exam. 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.

[Ultrasound Guidance in Regional Anaesthesia](#) Ultrasound Guided Regional Anesthesia

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)