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Practical Atlas of Ruminant and Camelid Reproductive Ultrasonography is a practical, fully referenced, image-based guide to the essential concepts of reproductive ultrasound in domesticated ruminants and camelids. Providing information to enable practitioners to incorporate ultrasound service into their practices, the book also includes more specialized information for advanced techniques such as fetal sexing, embryo transfer, color Doppler, and others. Practical Atlas of Ruminant and Camelid Reproductive Ultrasonography is a must-have reference for ruminant and camelid practitioners, instructors, and students.

With a focus on real-time clinical decision making, Dr. Waldman's practical text helps increase your diagnostic accuracy in dynamic scanning of suspected pathology at the time the patient is being examined. This unique resource helps guide your targeted poin-

t-of-care ultrasound examination. Nearly 2,000 classic ultrasound images and anatomic drawings depict commonly encountered conditions, and Dr. Waldman's expert advice guides you clearly toward the correct clinical diagnosis.

Atlas of Small Animal Ultrasonography, Second Edition is a comprehensive reference for ultrasound techniques and findings in small animal practice, with more than 2000 high-quality sonograms and illustrations of normal structures and disorders. Provides a comprehensive collection of more than 2000 high-quality images, including both normal and abnormal ultrasound features, as well as relevant complementary imaging modalities and histopathological images Covers both common and uncommon disorders in small animal patients Offers new chapters on practical physical concepts and artifacts and abdominal contrast sonography Includes access to a companion website with over 140 anno-

tated video loops of the most important pathologies covered in each section of the book

"Comprehensive Atlas of Ultrasound-Guided Pain Management Injection Techniques depicts in crisp, step-by-step detail how to prepare and perform injections under ultrasound guidance. Over 180 ultrasound-guided injection techniques are depicted in short, easy to review chapters with hundreds of full color photographs and illustrations. Coverage includes techniques for head, neck, shoulder, elbow and forearm, wrist and hand, chest wall, trunk and abdomen, low back, hip and pelvis, knee and lower extremity, and foot and ankle"--

This atlas and guide book is focused on gynecological ultrasound, an area that has remained in the shadow of obstetric ultrasound & fetal medicine. Gynecological ultrasound has seen rapid advances owing to expanding research and improved ultrasound equipment. This book leverages these advances and provides abundant illustrations and practice points of classical and new ultrasound features. It serves as a guide for radiologists, gynecologists and sonologists for the accurate diagnosis of gynecological pathologies. The chapters of this book also serve as a comprehensive resource for various topics with hundreds of images and figures, including basic gray scale images, Doppler studies and three dimensional ultrasound illustrations. In addition, standard terms for the evaluation and reporting of gynecological pathologies are discussed. Emergencies like ovarian torsion, complex adnexal cyst are also covered.

Endobronchial ultrasound has received explosive attention amongst pulmonologists, thoracic surgeons and gastroenterolo-

gists and the procedure is increasingly being performed. Even though the technology has been in use for over 10 years, technical modifications have just recently lead to the ability for near ubiquitous use. The editors and contributors have all been active in the field for years, are well published and certainly are considered opinion leaders and well-traveled teachers, having offered many courses in bronchoscopy and endobronchial ultrasound.

This book is the first and definitive reference in the growing field of ultrasonography in pain medicine. Each chapter details all you need to know to perform a specific block. Comparative anatomy and sonoanatomy of the various soft tissues are featured, and tips and tricks for correct placement of the ultrasound probe and admimistration of the injection are described in detail. All the major peripheral nerve blocks are discussed as well as the various injections of the spine, pelvis, and musculoskeletal system.

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.

"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.

Now in its second edition, Atlas of Ultrasound in Obstetrics and Gynecology is ideal as a visually-oriented reference and comprehensive tutorial for expanding your knowledge of ultrasound. Developed from one of the best and broadest sonographic collections in the field, this powerful atlas provides images and authoritative commentary covering all aspects of obstetric and gynecologic ultrasound. The text is integrated with over 200 video clips available online to enhance diagnostic skills and learn about ultrasound-guided procedures. Whether you're a radiologist, obstetrician, gynecologist or sonographer this exciting visual resource is

a valuable tool for achieving diagnostic accuracy for your patients.

The Atlas of Endoscopic Ultrasonography provides readers with a large collection of excellent images obtained from both diagnostic and therapeutic procedures. The Atlas includes a DVD which will be an invaluable addition to the library of trainee and practising gastroenterologists with video clips and searchable database of images. Together the book and DVD offer a first class collection of images to give a highly integrated introduction to endoscopic ultrasonography. The Atlas is an ideal companion to Dr Gress et al's Endoscopic Ultrasonography, Second Edition.

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.

Color Atlas of Ultrasound Anatomy, Second Edition presents a systematic, step-by-step introduction to normal sectional anatomy of the abdominal and pelvic organs and thyroid gland, essential for recognizing the anatomic landmarks and variations seen on ultrasound. Its convenient, double-page format, with more than 250 image quartets showing ultrasound images on the left and explanatory drawings on the right, is ideal for rapid comprehension. In addition, each image is accompanied by a line drawing indicating the position of the transducer on the body and a 3-D diagram de-

monstrating the location of the scanning plane in each organ. Special features: More than 60 new ultrasound images in the second edition that were obtained with state-of-the-art equipment for the highest quality resolution A helpful foundation on standard sectional planes for abdominal scanning, with full-color photographs demonstrating probe placement on the body and diagrams of organs shown Front and back cover flaps displaying normal sonographic dimensions of organs for easy reference Covering all relevant anatomic markers, measurable parameters, and normal values, and including both transverse and longitudinal scans, this pocket-sized reference is an essential learning tool for medical students, radiology residents, ultrasound technicians, and medical sonographers.

Atlas of Musculoskeletal Ultrasound Anatomy provides an essential grounding in normal ultrasound anatomy, enabling the reader to assess whether anatomy is disrupted through injury or disease. The book is structured systematically, with all commonly imaged areas illustrated by high quality ultrasound scans with accompanying concise descriptive text. Features of the second edition:

- Over 100 individual anatomical descriptions
- Numerous new images from the latest generation ultrasound machines
- Improved surface anatomy diagrams indicating limb and probe optimal positions for each area of anatomy
- Numerous radiographic anatomical diagrams showing ultrasound probe overlying the anatomical structure for improved visual understanding

Atlas of Musculoskeletal Ultrasound Anatomy appeals to a wide range of practitioners who need to visualize the musculoskeletal system to diagnose injuries or locate blood vessels or nerves while undertaking clinical procedures. Radiologists, sonographers, anaesthetists,

physiotherapists, rheumatologists, and orthopaedic surgeons will find this an invaluable practical reference.

The use of ultrasound guidance to perform diagnostic and therapeutic injections is growing at a rapid rate, as is the evidence to support its use. Even with the increased popularity of ultrasound, there remains a lack of formal training or a standard reference book. Atlas of Ultrasound Guided Musculoskeletal Injections fills this void in the literature and will be useful to physiatrists, orthopedists, rheumatologists, pain medicine and sports medicine specialists alike. Broken down by anatomic structure and heavily illustrated, this book is both comprehensive and instructive. The Editors and their contributors break down the basics (both the fundamentals of ultrasound to needle visibility and the role of injections) and explore ultrasound-guided injection for structures in the shoulder, elbow, wrist and hand, hip and groin, knee, ankle and foot, and spine. Using a clear, heavily illustrated format, this book describes the relevant clinical scenarios and indications for injection, the evidence to support ultrasound use, relevant local anatomy, injection methods, and pearls and safety considerations. It will be a valuable reference for trainees and experienced clinicians alike, for experienced sonographers or those just starting out.

In recent years, sonography of the peripheral nervous system has gained widespread acceptance. New diagnostic applications have emerged, and the field of ultrasound-guided interventions has expanded significantly: regional anesthesia, peripheral nerve blocks, and similar techniques are now frequently performed under ultrasound guidance by anesthesiologists and pain physicians alike. This atlas of peripheral nerve ultrasound is designed to

meet the daily needs of both radiologists and clinicians by allowing rapid review of typical features, knowledge of which is important for successful diagnosis and intervention. The side by side presentation of ultrasound images with anatomical cryosections and photographs of transducer positions allows for reliable sonographic identification of even tiny nerves in regions of complex topography. The practical value of the atlas is further enhanced by correlations with high-resolution MRI scans.

Ultrasound-Guided Chemodenervation Procedures provides a comprehensive multimedia approach to neurotoxin therapy using ultrasound. This combined text/atlas offers a complete review of toxin therapy, both current indications and emerging applications, as well as a detailed review of ultrasound technology and ultrasound guidance techniques for botulinum toxin injections and nerve blocks. The work also includes a detailed anatomic and pictorial atlas, which will be invaluable to clinicians performing procedures with or without ultrasound guidance. The text section of the book is a reference manual, covering conditions and indications, chemodenervation agents, and ultrasound basics including essential physics, machine settings, artifacts, scanning techniques, and procedural guidance techniques. The illustrated atlas sections offer a stunning visual roadmap for understanding ultrasound anatomy, localizing muscles, and safely and successfully performing chemodenervation procedures. Features of Ultrasound-Guided Chemodenervation Procedures include: More than 1,300 clinical pictures, anatomical drawings, and ultrasound stills Practical yet comprehensive-an indispensable print and electronic reference for clinicians Review of ultrasound technology, tech-

niques, and clinical applications for chemodenervation Review of clinical indications and emerging uses of botulinum toxin

A comprehensive full-color anatomical atlas designed specifically for the anesthesiologist and pain physician A clear understanding of relevant anatomy is essential for physicians who wish to master ultrasound guided nerve blocks. This innovative resource includes high-resolution CT, MRI, cadaver anatomy, anatomical illustrations, and 2D and 3D ultrasound images of the neck, upper and lower extremity, trunk, thorax, thoracic spine, sacral spine, lumbar paravertebral region, and thoracic paravertebral region that are relevant to ultrasound guided regional anesthesia. Although other texts may provide some of this imaging information, this is the first book to systematically and comprehensively gather all the imaging modalities for side-by-side comparison. • Bulleted pearls impart how to obtain optimal ultrasound images at each site • Hundreds of full-color photographs and illustrations throughout

There are already plenty of reference texts on how to perform a bedside ultrasound. Atlas of Emergency Ultrasound is different. It is a visually dynamic atlas, packed full of images of a broad spectrum of pathologic entities and emergency conditions. Over 300 detailed examples of positive ultrasound findings are provided, covering every organ system and showcasing the full range of pathology the clinician might encounter when using ultrasound. Each condition comprises several images with detailed captions and minimal text, enabling quick reference in a busy clinical setting. Both common and rare findings are included. A free companion website is also available (www.cambridge.org/features/fox/), featuring videos of cardiac, vascular and gastrointestinal ul-

trasound sequences and a range of ultrasound-guided procedures. Written by a leading emergency ultrasound physician and educator, and containing over 800 high-quality images, Atlas of Emergency Ultrasound is an invaluable resource for any clinician using bedside ultrasound.

The first comprehensive, multi-specialty text on ultrasound guidance in interventional procedures, this book uses the authors extensive clinical experience to provide a full overview of modern interventional ultrasound. For all practitioners, whether new to the procedures or already using them, Interventional Ultrasound offers expert advice and solutions to commonly encountered questions and problems. Special Features: Provides a complete approach to interventional ultrasound, beginning with essential basics on materials, equipment, setup requirements, informed consent issues, microbiologic aspects, and hygiene Covers specific, ultrasound-guided diagnostic and therapeutic interventions in the abdomen, thorax, urogenital tract, musculoskeletal system, thyroid and other sites, including indications, selection of materials and biopsy devices, preparation and detailed, hands-on techniques as well as management of complications Describes key recent advances, such as the use of ultrasound contrast agents in interventional procedures, adapting ultrasound transducers for endoscopic use in biopsies of the thorax and gastrointestinal tract, performing percutaneous biopsy aspiration and drainage with ultrasound, employing sonography in advanced ablative techniques and more Explores such cutting edge topics as symptom-oriented palliative care interventions, applications in critical care medicine and interventions in children Highlights, for the first time, the vital role of assisting personnel in interventional ultrasound proce-

dures Offering easy-to-follow instructions and nearly 600 high-quality illustrations, Interventional Ultrasound takes a practical, cookbook approach ideal for daily use in the hospital or clinic. It is an indispensable reference for interventional radiologists, gastroenterologists, internists, surgeons and other specialists who need to stay up-to-date on the newest technology and applications in this rapidly advancing field.

4 STAR DOODY'S REVIEW! "The book can serve as an introduction, a refresher, or a supplement, depending on the experience and background of the reader. The authors are well regarded for their teaching, research, and clinical abilities....The book covers basic and advanced regional anesthesia techniques. It includes mostly classic approaches, but also offers some novel techniques for both single shot and continuous nerve blockade. The illustrations are superb, especially those that reveal the underlying structures, providing an almost three-dimensional view of the relevant anatomy."--Doody's Review Service Authored by the world's leading authorities, this is an authoritative, full-color instructional manual for mastering nerve block techniques. Beautifully illustrated with 350 color illustrations, including 175 clinical photographs of actual patients.

Ultrasound Guided Musculoskeletal Procedures in Sports Medicine: A Practical Atlas provides the support practitioners need based on practical, first-hand experience of a Sports and Exercise Medicine Physician who trained in musculoskeletal sonography. Over the years, and with much practice, the lessons learned and techniques developed are summarized with relevant pictures that guide those undertaking the procedure. As musculoskeletal

ultrasound forms an important tool for physicians working in this field of medicine, this book helps physicians provide increasing expectation for patients who want a safe, guided procedure when clinically warranted. While an understanding of ultrasound imaging is essential prior to ultrasound guided procedures, there are few practical guides that provide practicing clinicians with a quick reference when faced with a procedure. This book fills that void. Presents a standardized resource on ultrasound procedures, including how to position patients and what equipment is required. Includes straightforward injections, hydrodilations, tendon stripping and facet/nerve injections. Provides images throughout the text to complement and guide the reader.

Exhaustively illustrated in color with over 1000 photographs, figures, histopathology slides, and sonographs, this uniquely authoritative atlas provides the clinician with a visual guide to diagnosing congenital anomalies, both common and rare, in every organ system in the human fetus. It covers the full range of embryo and fetal pathology, from point of death, autopsy and ultrasound, through specific syndromes, intrauterine problems, organ and system defects to multiple births and conjoined twins. Gross pathologic findings are correlated with sonographic features in order that the reader may confirm visually the diagnosis of congenital abnormalities for all organ systems. Obstetricians, perinatologists, neonatologists, geneticists, anatomic pathologists, and all practitioners of maternal-fetal medicine will find this atlas an invaluable resource.

This is the first comprehensive text-atlas that shows how to use ultrasound technology and nerve stimulation techniques to guide regional blockade in children. Clinical chapters follow a sequen-

tial, highly illustrated format that provides step-by-step guidance and include cases, clinical pearls, and troubleshooting tips. Nearly 400 figures, consisting of ultrasound images, MRI images, and schematics, have been assembled to maximize understanding of pediatric neuroanatomy and its relationship to surrounding anatomical structures. To help the novice user, the book features side-by-side presentation of unlabeled and labeled ultrasound images. Pediatric Atlas of Ultrasound- and Nerve Stimulation-Guided Regional Anesthesia focuses on common approaches, supplemented in clinical pearls and notes by alternative approaches, and emphasizes dynamic and systematic scanning techniques. It is intended for pediatric anesthesiologists who wish to incorporate regional blockade into their repertoire and designed as a refresher and resource for all regional anesthesiologists seeking to refine their skills. Unique Selling Points: Internationally renowned experts. Presents two technologies proven to improve block success when used together. Superb coverage of pediatric anatomy in relation to regional anesthesia. Equipment, set-up, pain assessment, local anesthetic pharmacology, and patient safety considerations for child patients.

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.

Clear, concise description of more than 100 US-guided injections in musculoskeletal medicine. Atlas of Ultrasound-Guided Musculoskeletal Injections includes numerous tips and tricks from the field's most experienced and respected practitioners. This unique and state-of-the-art text is ideal for physiatrists, rheumatologists, sports medicine physicians, radiologists, pain medicine specialists, and orthopedic surgeons. With a focus on safety and efficacy, this atlas is a worthwhile investment for any practitioner looking to add ultrasound-guided procedures to their practice or is looking to sharpen their skills. The book opens with informative coverage of the fundamentals of MSK US, including ultrasound physics, preparation and set-up for MSK US procedures, and the rationale and evidence for performing these procedures. The main body of the book dedicates one chapter to a specific US-guided injection or procedure. Each chapter design includes sections on key points, pertinent anatomy, common pathology, US imaging, indications, and technique. The book is divided into 8 sections: Shoulder Elbow Hand and wrist Pelvis Knee Foot and ankle Special procedures (rotator cuff, Percutaneous Trigger finger release, Ultrasound-guided Carpal Tunnel release, and Tenex) Atlas of Ultrasound-Guided Musculoskeletal Injections includes coverage of the full spectrum of procedures, ranging from basic US guided joint injections to perinerval injections, tenotomies, and surgical procedures such as percutaneous A1 pulley release, making the book the field's first true cornerstone text and the "go to"

resource for any clinician interested in the subject.

The only visual guide to equine ultrasonography based on digital ultrasound technology. Atlas of Equine Ultrasonography provides comprehensive coverage of both musculoskeletal and non-musculoskeletal areas of the horse. Ideal for practitioners in first opinion or referral practices, each chapter features normal images for anatomical reference followed by abnormal images covering a broad range of recognised pathologies. The book is divided into musculoskeletal, reproductive and internal medicine sections and includes positioning diagrams demonstrating how to capture optimal images. With contributions from experts around the world, this book is the go-to reference for equine clinical ultrasonography. Key features include: Pictorially based with a wealth of digital ultrasound images covering both musculoskeletal and non-musculoskeletal areas and their associated pathologies. Each chapter begins with a discussion of normal anatomy and demonstrates how to obtain and interpret the images presented. A video library of over 50 ultrasound examinations is available for streaming or download and viewing on-the-go. Access details are provided in the book.

Comprehensive Atlas of Ultrasound-Guided Pain Management Injection Techniques depicts in crisp, step-by-step detail how to prepare and perform injections under ultrasound guidance. Over 160 ultrasound-guided injection techniques are depicted in short, easy to review chapters with hundreds of full color photographs and illustrations. The accompanying website presents many of these techniques in video. Coverage includes techniques for head, neck, shoulder, elbow and forearm, wrist and hand, chest wall, trunk and abdomen, low back, hip and pelvis, knee and lower ex-

tremity, and foot and ankle. Visualizing patient anatomy and correlating it to ultrasound output is a crucial skill for these procedures, and is clearly demonstrated with anatomical illustrations placed side-by-side with ultrasound images. Transducer positioning and proper needle angle are also clearly demonstrated in illustrations, photographs, and in video accompanying the text. . This text demonstrates the ease and utility of ultrasound in a comprehensive, aesthetically pleasing layout. Images are oversized for viewing ease and text is direct, succinct, and easy to read. FEATURES: Each technique will illustrate the relevant anatomy Each technique is accompanied by full-color illustrations and photographs Uses a step-by-step, how-to approach to describe each technique Accompanying videos further illustrate the techniques

The present book is an illustrated guide on fetal medicine, including a wealth of normal and pathological/malformations ultrasound images, throughout the whole pregnancy. Thus, the book intends to fill two gaps in once: The lack of a material discussing the basic principles of fetal ultrasound, which are the basement for a more efficient learning in fetal medicine. . The need for a thorough approach in fetal medicine, presenting both normal and pathological imaging, allowing a detailed evaluation of clinical conditions of importance in prenatal care and follow up. The Atlas of Ultrasound Imaging is an up to date guide to all obstetricians, gynecologists and pediatricians who intend to upgrade their knowledge in fetal medicine, as well as to any other professional, professor, student or research interested in fetal ultrasound.

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. Topics are organized into four chapters. The first chapter 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 extremity, lower extremity, and chest, trunk and spine. Each nerve block is comprehensively explained, divided up by introduction, anatomy, clinical applications, technique, alternate techniques, complications, and pearls. This new edition includes discussions of 6 new blocks: the suprascapular block, axillary nerve block for shoulder surgery, fascia iliaca block, lateral femoral cutaneous block, and the adductor canal block. This edition also contains over 40 new procedural and imaging figures, an appendix on what blocks to perform for specific surgeries, and new information on choice of local anesthetic agent, types of catheters and practical ultrasound physics to help improve scanning. Ultrasound Guided Regional Anesthesia 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 physician.

An ideal "how-to" guide for those who perform musculoskeletal injections, this unique resource by Drs. Gina M. Allen and David John Wilson demonstrates how to make the most out of the clear visualization provided by ultrasound-guided techniques. High-quality line drawings, clinical photographs, and ultrasound images clearly depict patient presentation, relevant anatomy, and

sonoanatomy. Clear, concise text and numerous illustrations make this reference your go-to source on today's ultrasound-guided musculoskeletal injections. Bulleted text follows a quick-reference template throughout: clinical/ultrasound findings, equipment, anatomy, technique, aftercare, and comments. Each chapter covers the entire injection process with text on the left-hand page and corresponding images on the right. Useful for clinicians in radiology, sports medicine, rheumatology, orthopaedics, pain medicine, and physical therapy - anyone who needs a clear, current guide to this minimally invasive treatment option for pain relief.

In recent years, ultrasound has become an essential tool for clinicians who care for patients suffering from acute or chronic pain. *Comprehensive Atlas of Ultrasound-Guided Pain Management Injection Techniques, 2nd Edition*, depicts in clear, step-by-step detail how to prepare and perform injections under ultrasound guidance. Noted pain expert Dr. Steven D. Waldman's succinct, easy-to-read writing style guides you through more than 180 useful techniques - all highlighted by hundreds of full-color, oversized images designed to demonstrate the ease and utility of ultrasound in contemporary pain management care.

This is the second edition of a well-received book that has been recommended for inclusion in any vascular library or vascular radiology suite. The first edition has been fully revised so as to provide a comprehensive, up-to-date account of vascular ultrasound that reflects recent advances. The emphasis remains on the clinical aspects most relevant to angiologists and vascular surgeons. Ultrasound anatomy is discussed, examination procedures ex-

plained, normal and pathological findings described, and the clinical impact of ultrasound assessed. Atlas sections present pertinent case material to illustrate typical ultrasound findings for both the more common vascular diseases and rarer conditions. This book will serve not only as an invaluable guide for beginners, but also as an indispensable reference for experienced sonographers, who will benefit from the detailed evaluation of the role of ultrasound as compared with other modalities and the discussion of ultrasound findings in their clinical context.

This brilliant pocket guide helps you to grasp the connection between three-dimensional organ systems and their two-dimensional representation in ultrasound imaging. Through dynamic illustrations and clarifying text, it allows you to: - Recognize, name, and confidently locate all organs, landmarks, and anatomical details of the abdomen -Examine all standard planes, including transverse and longitudinal scans for regions of sonographic interest (including the thyroid gland) - Understand topographic relationships of organs and structures in all three spatial planes This invaluable text is ideal for the beginner, providing a rapid orientation to all key topics. It includes: - Over 250 fully labeled image quartets, each showing: the preferred location of the transducer on the body; the resulting image; a labeled drawing of the image, keyed to anatomic structures; and a small 3-D drawing showing the location of the scanning plane in the organ. - Body markers with information on transducer handling and positioning for each sonogram - Over 250 rules of thumb and key concepts - All relevant landmarks, measurable parameters, and normal values Packed with beautiful graphics and precise text, this is the essential resource that anyone involved in ultrasound radiography

needs.

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. Presents several new chapters, including Regional Anesthesia in Resource-Constrained Environments and Safety of Ultrasound Guided Regional Blocks.

Give your patients the non-surgical spine pain relief they need with help from the *Atlas of Image-Guided Spinal Procedures* by Dr. Michael Bruce Furman. This medical reference book features a highly visual atlas format that shows you exactly how to safely and efficiently perform each technique step-by-step. A unique, systematic, safe, and efficient approach makes *Atlas of Image-Guided Spinal Procedures* your go-to resource for spine pain relief for your patients. The highly visual format shows you exactly how to perform each technique, highlighting imaging pearls and emphasizing optimal and suboptimal imaging. Updated content includes ultrasound techniques and procedures for "spine mimickers," including hip and shoulder image-guided procedures, keeping you on the cutting edge of contemporary spine pain-re-

lief methods. Safely and efficiently relieve your patients' pain with consistent, easy-to-follow chapters that guide you through each technique. Highly visual atlas presentation of an algorithmic, image-guided approach for each technique: trajectory view (demonstrates fluoroscopic "set up"); multi-planar confirmation views (AP, lateral, oblique); and safety view (what should be avoided during injection), along with optimal and suboptimal contrast patterns. Special chapters on Needle Techniques, Procedural Safety, Fluoroscopic and Ultrasound Imaging Pearls, Radiation Safety, and L5-S1 Disc Access provide additional visual instruction. View drawings of radiopaque landmarks and key radiolucent anatomy that cannot be viewed fluoroscopically. Includes new and unique diagrams demonstrating cervical, thoracic, and lumbar radiofrequency probe placement and treatment zones on multi-planar views. Features new coverage of ultrasound techniques, as well as image-guided procedures for "spine mimickers," such as hip and shoulder.

Ultrasound guidance of liver surgery is a very sophisticated approach that permits the performance of otherwise unfeasible operations, discloses the true extent of tumors, increases the indications for hepatectomy, and renders surgery safer. Despite this, it has remained relatively neglected in the literature over the past two decades, during which time much progress has been achieved. This is the first atlas on the subject, and it is comprehensive in scope. The state of the art in the use of ultrasound for resection guidance is carefully documented, and new techniques for exploration of the biliary tract and facilitation of transplant surgery are presented. Further important topics include the role

of ultrasound in laparoscopic approaches, the use of contrast agents for diagnosis and staging, and developments in the planning of surgical strategy. The editor is a leading authority whose group has been responsible for a variety of advances in the field. He has brought together other experts whose aim throughout is to provide clear information and guidance on the optimal use of ultrasound when performing liver surgery. This atlas is intended

especially for hepatobiliary surgeons but will also be of considerable value for general surgeons.

This book illustrates ultrasound and guided nerve stimulation techniques to achieve consistently good anesthesia results. Also included are demonstrations of peripheral nerve block techniques for the trunk, and upper and lower extremities. Images are correlated with MRIs for better anatomic identification.