

ULTRASOUND SHOULDER ANATOMY

ULTRASOUND SHOULDER ANATOMY IS A VITAL AREA OF STUDY IN MEDICAL IMAGING, PARTICULARLY FOR PROFESSIONALS WORKING IN ORTHOPEDICS, SPORTS MEDICINE, AND REHABILITATION. UNDERSTANDING THE ULTRASOUND SHOULDER ANATOMY ALLOWS HEALTHCARE PROVIDERS TO DIAGNOSE AND TREAT VARIOUS SHOULDER CONDITIONS EFFECTIVELY. THIS ARTICLE DELVES INTO THE INTRICATE STRUCTURES OF THE SHOULDER, THE ROLE OF ULTRASOUND IN VISUALIZING THESE COMPONENTS, AND THE CLINICAL APPLICATIONS OF ULTRASOUND IMAGING IN ASSESSING SHOULDER INJURIES AND DISEASES. BY EXPLORING THE ANATOMY OF THE SHOULDER AND THE BENEFITS OF ULTRASOUND, THIS COMPREHENSIVE GUIDE AIMS TO ENHANCE THE KNOWLEDGE OF PRACTITIONERS AND STUDENTS ALIKE.

- INTRODUCTION TO ULTRASOUND SHOULDER ANATOMY
- THE ANATOMY OF THE SHOULDER
- ULTRASOUND TECHNIQUES FOR SHOULDER IMAGING
- COMMON SHOULDER CONDITIONS DIAGNOSED BY ULTRASOUND
- ADVANTAGES OF ULTRASOUND IN SHOULDER ASSESSMENT
- CONCLUSION

INTRODUCTION TO ULTRASOUND SHOULDER ANATOMY

UNDERSTANDING THE ULTRASOUND SHOULDER ANATOMY IS IMPERATIVE FOR ACCURATE DIAGNOSIS AND TREATMENT OF SHOULDER-RELATED AILMENTS. THE SHOULDER JOINT IS A COMPLEX STRUCTURE COMPRISED OF BONES, MUSCLES, TENDONS, AND LIGAMENTS THAT WORK TOGETHER TO PROVIDE A WIDE RANGE OF MOTION. EACH OF THESE COMPONENTS CAN BE ASSESSED USING ULTRASOUND IMAGING, WHICH OFFERS REAL-TIME VISUALIZATION OF SOFT TISSUES AND HELPS IN DIAGNOSING VARIOUS CONDITIONS SUCH AS ROTATOR CUFF TEARS, BURSITIS, AND TENDINOPATHY.

ULTRASOUND IMAGING UTILIZES HIGH-FREQUENCY SOUND WAVES TO CREATE DETAILED IMAGES OF THE SHOULDER'S INTERNAL STRUCTURES. THIS NON-INVASIVE METHOD IS FAVORED FOR ITS ABILITY TO PROVIDE DYNAMIC ASSESSMENTS DURING PATIENT MOVEMENTS, MAKING IT AN INVALUABLE TOOL FOR CLINICIANS. IN THE FOLLOWING SECTIONS, WE WILL EXPLORE THE ANATOMY OF THE SHOULDER, THE ULTRASOUND TECHNIQUES USED, THE COMMON CONDITIONS DIAGNOSED, AND THE ADVANTAGES OF USING ULTRASOUND FOR SHOULDER ASSESSMENTS.

THE ANATOMY OF THE SHOULDER

THE SHOULDER IS ANATOMICALLY DIVIDED INTO SEVERAL KEY COMPONENTS, EACH PLAYING A CRUCIAL ROLE IN ITS FUNCTION. THE PRIMARY STRUCTURES INVOLVED INCLUDE THE BONES, MUSCLES, TENDONS, AND LIGAMENTS THAT COMPRISE THE SHOULDER JOINT.

BONE STRUCTURES

THE SHOULDER IS PRIMARILY MADE UP OF THREE BONES:

- **HUMERUS:** THIS IS THE UPPER ARM BONE THAT FITS INTO THE SHOULDER SOCKET.
- **SCAPULA:** ALSO KNOWN AS THE SHOULDER BLADE, IT PROVIDES ATTACHMENT POINTS FOR SEVERAL MUSCLES AND HOUSES THE GLENOID CAVITY.

- **CLAVICLE:** COMMONLY REFERRED TO AS THE COLLARBONE, IT CONNECTS THE ARM TO THE BODY AND STABILIZES THE SHOULDER JOINT.

MUSCLES AND TENDONS

THE MUSCLES SURROUNDING THE SHOULDER ARE CRITICAL FOR MOVEMENT AND STABILITY. THE ROTATOR CUFF CONSISTS OF FOUR PRIMARY MUSCLES:

- **SUPRASPINATUS:** RESPONSIBLE FOR ARM ELEVATION AND STABILITY.
- **INFRASPINATUS:** ASSISTS IN EXTERNAL ROTATION OF THE ARM.
- **TERES MINOR:** AIDS IN EXTERNAL ROTATION AND ADDUCTION.
- **SUBSCAPULARIS:** FACILITATES INTERNAL ROTATION OF THE ARM.

THESE MUSCLES ARE CONNECTED TO THE HUMERUS BY TENDONS, WHICH CAN BE ASSESSED USING ULTRASOUND TO IDENTIFY TEARS OR INFLAMMATION.

LIGAMENTS

THE SHOULDER JOINT IS SUPPORTED BY SEVERAL LIGAMENTS THAT PROVIDE STABILITY. KEY LIGAMENTS INCLUDE:

- **GLENOHUMERAL LIGAMENTS:** THESE LIGAMENTS CONNECT THE HUMERUS TO THE GLENOID CAVITY, MAINTAINING JOINT STABILITY.
- **CORACOHUMERAL LIGAMENT:** THIS LIGAMENT PROVIDES SUPPORT TO THE UPPER PART OF THE JOINT.
- **TRANSVERSE HUMERAL LIGAMENT:** IT HOLDS THE TENDON OF THE BICEPS MUSCLE IN PLACE.

UNDERSTANDING THESE ANATOMICAL COMPONENTS IS CRUCIAL FOR INTERPRETING ULTRASOUND IMAGES ACCURATELY.

ULTRASOUND TECHNIQUES FOR SHOULDER IMAGING

ULTRASOUND IMAGING OF THE SHOULDER REQUIRES SPECIFIC TECHNIQUES AND APPROACHES TO ENSURE HIGH-QUALITY IMAGES. THE FOLLOWING TECHNIQUES ARE COMMONLY EMPLOYED:

PATIENT POSITIONING

PROPER PATIENT POSITIONING IS CRITICAL FOR OPTIMAL VISUALIZATION OF SHOULDER STRUCTURES. COMMON POSITIONS INCLUDE:

- **SITTING POSITION:** ALLOWS FOR DYNAMIC ASSESSMENT DURING ACTIVE MOVEMENTS.
- **SUPINE POSITION:** FACILITATES BETTER ACCESS TO THE ROTATOR CUFF AND SUBACROMIAL SPACE.

PROBE SELECTION AND TECHNIQUE

HIGH-FREQUENCY LINEAR TRANSDUCERS ARE TYPICALLY USED FOR SHOULDER ULTRASOUND, AS THEY PROVIDE DETAILED IMAGES OF SUPERFICIAL STRUCTURES. THE PROBE IS PLACED ON THE SKIN SURFACE, AND VARIOUS SCANNING TECHNIQUES ARE UTILIZED:

- **LONGITUDINAL AND TRANSVERSE VIEWS:** THESE VIEWS PROVIDE COMPREHENSIVE ASSESSMENTS OF THE ROTATOR CUFF AND BICEPS TENDON.
- **DOPPLER ULTRASOUND:** THIS TECHNIQUE ASSESSES BLOOD FLOW AND CAN HELP IDENTIFY INFLAMMATION.

DYNAMIC ULTRASOUND CAN ALSO BE PERFORMED, WHERE THE CLINICIAN MAY ASK THE PATIENT TO MOVE THEIR ARM TO OBSERVE REAL-TIME CHANGES IN THE STRUCTURES.

COMMON SHOULDER CONDITIONS DIAGNOSED BY ULTRASOUND

ULTRASOUND IS AN EFFECTIVE TOOL FOR DIAGNOSING SEVERAL COMMON SHOULDER CONDITIONS. SOME OF THESE INCLUDE:

ROTATOR CUFF TEARS

ROTATOR CUFF INJURIES ARE PREVALENT IN BOTH ATHLETES AND THE GENERAL POPULATION. ULTRASOUND CAN VISUALIZE:

- PARTIAL TEARS, WHICH MAY SHOW IRREGULARITY OF TENDON THICKNESS.
- FULL-THICKNESS TEARS, WHERE THERE IS A COMPLETE DISCONTINUITY OF THE TENDON.

SUBACROMIAL BURSITIS

THIS CONDITION INVOLVES INFLAMMATION OF THE BURSA LOCATED BENEATH THE ACROMION. ULTRASOUND CAN IDENTIFY:

- INCREASED FLUID IN THE SUBACROMIAL SPACE.
- THICKENING OF THE BURSAL MEMBRANE.

TENDINOPATHY

CHRONIC DEGENERATION OF THE TENDONS, OFTEN DUE TO OVERUSE, CAN BE ASSESSED THROUGH ULTRASOUND, REVEALING:

- HYPOECHOIC AREAS INDICATING DEGENERATION.
- CHANGES IN TENDON STRUCTURE.

ADVANTAGES OF ULTRASOUND IN SHOULDER ASSESSMENT

ULTRASOUND OFFERS NUMEROUS ADVANTAGES IN EVALUATING SHOULDER ANATOMY AND PATHOLOGY, INCLUDING:

REAL-TIME IMAGING

ONE OF THE PRIMARY BENEFITS OF ULTRASOUND IS ITS ABILITY TO PROVIDE REAL-TIME IMAGING, ALLOWING CLINICIANS TO OBSERVE DYNAMIC MOVEMENTS OF THE SHOULDER AND ASSESS FUNCTIONAL LIMITATIONS.

Non-Invasive and Safe

ULTRASOUND IS A NON-INVASIVE PROCEDURE WITH NO EXPOSURE TO IONIZING RADIATION, MAKING IT SAFE FOR PATIENTS, INCLUDING CHILDREN AND PREGNANT WOMEN.

COST-EFFECTIVENESS

COMPARED TO MRI AND CT SCANS, ULTRASOUND IS GENERALLY MORE COST-EFFECTIVE, ALLOWING FOR BROADER ACCESSIBILITY IN CLINICAL SETTINGS.

PORTABILITY

ULTRASOUND MACHINES ARE PORTABLE AND CAN BE USED IN VARIOUS SETTINGS, INCLUDING CLINICS, EMERGENCY ROOMS, AND EVEN AT THE BEDSIDE, ENHANCING PATIENT CARE.

CONCLUSION

UNDERSTANDING ULTRASOUND SHOULDER ANATOMY IS ESSENTIAL FOR HEALTHCARE PROVIDERS WHO WISH TO DIAGNOSE AND MANAGE SHOULDER DISORDERS EFFECTIVELY. THE INTRICATE ANATOMY OF THE SHOULDER, COMBINED WITH THE ADVANTAGES OF ULTRASOUND IMAGING, MAKES IT A POWERFUL TOOL IN CLINICAL PRACTICE. THIS ARTICLE HAS PROVIDED A COMPREHENSIVE OVERVIEW OF THE SHOULDER'S ANATOMY, ULTRASOUND TECHNIQUES, COMMON CONDITIONS DIAGNOSED, AND THE BENEFITS OF USING ULTRASOUND FOR ASSESSMENT. AS TECHNOLOGY ADVANCES, THE ROLE OF ULTRASOUND IN SHOULDER EVALUATION WILL LIKELY CONTINUE TO EXPAND, OFFERING MORE OPPORTUNITIES FOR ACCURATE DIAGNOSIS AND IMPROVED PATIENT OUTCOMES.

Q: WHAT IS ULTRASOUND SHOULDER ANATOMY?

A: ULTRASOUND SHOULDER ANATOMY REFERS TO THE DETAILED STRUCTURES OF THE SHOULDER JOINT, INCLUDING BONES, MUSCLES, TENDONS, AND LIGAMENTS, AS VISUALIZED USING ULTRASOUND IMAGING TECHNIQUES.

Q: HOW DOES ULTRASOUND DIFFERENTIATE BETWEEN TYPES OF SHOULDER INJURIES?

A: ULTRASOUND CAN VISUALIZE THE INTEGRITY OF TENDONS AND LIGAMENTS, REVEALING CONDITIONS SUCH AS TEARS, INFLAMMATION, AND DEGENERATION, WHICH HELPS DIFFERENTIATE BETWEEN SPECIFIC TYPES OF SHOULDER INJURIES.

Q: WHAT ARE THE BENEFITS OF USING ULTRASOUND FOR SHOULDER ASSESSMENTS?

A: BENEFITS INCLUDE REAL-TIME IMAGING, NON-INVASIVENESS, COST-EFFECTIVENESS, AND THE ABILITY TO VISUALIZE DYNAMIC MOVEMENTS, MAKING IT A VALUABLE TOOL FOR DIAGNOSING SHOULDER CONDITIONS.

Q: CAN ULTRASOUND DETECT ROTATOR CUFF TEARS?

A: YES, ULTRASOUND IS HIGHLY EFFECTIVE IN DETECTING ROTATOR CUFF TEARS, SHOWING BOTH PARTIAL AND FULL-THICKNESS INJURIES THROUGH DETAILED IMAGING OF THE TENDON STRUCTURES.

Q: IS ULTRASOUND SAFE FOR ALL PATIENTS?

A: YES, ULTRASOUND IS CONSIDERED SAFE FOR ALL PATIENTS, INCLUDING CHILDREN AND PREGNANT WOMEN, AS IT DOES NOT INVOLVE IONIZING RADIATION.

Q: WHAT CONDITIONS CAN BE DIAGNOSED WITH ULTRASOUND IMAGING OF THE SHOULDER?

A: COMMON CONDITIONS DIAGNOSED INCLUDE ROTATOR CUFF TEARS, SUBACROMIAL BURSITIS, TENDINOPATHY, AND SHOULDER IMPINGEMENT SYNDROME.

Q: HOW IS THE PATIENT POSITIONED FOR A SHOULDER ULTRASOUND?

A: PATIENTS CAN BE POSITIONED SITTING OR SUPINE, DEPENDING ON THE SPECIFIC STRUCTURES BEING EXAMINED AND THE CLINICIAN'S PREFERENCE FOR VISUALIZATION.

Q: WHAT IS THE ROLE OF DOPPLER ULTRASOUND IN SHOULDER IMAGING?

A: DOPPLER ULTRASOUND ASSESSES BLOOD FLOW WITHIN THE SHOULDER STRUCTURES, HELPING TO IDENTIFY AREAS OF INFLAMMATION OR INCREASED VASCULARITY ASSOCIATED WITH CERTAIN CONDITIONS.

Q: HOW DOES ULTRASOUND COMPARE TO MRI FOR SHOULDER IMAGING?

A: WHILE MRI PROVIDES DETAILED IMAGING OF BOTH SOFT AND HARD TISSUES, ULTRASOUND IS MORE COST-EFFECTIVE, PORTABLE, AND ALLOWS FOR DYNAMIC ASSESSMENT, MAKING IT A USEFUL COMPLEMENT TO MRI IN SHOULDER EVALUATIONS.

Q: WHAT TRAINING IS REQUIRED TO PERFORM SHOULDER ULTRASOUND?

A: TRAINING TYPICALLY INVOLVES SPECIALIZED EDUCATION IN ULTRASOUND TECHNIQUES, ANATOMY, AND PATHOLOGY, OFTEN REQUIRING CERTIFICATION OR CREDENTIALS IN MUSCULOSKELETAL ULTRASOUND FOR HEALTHCARE PROFESSIONALS.

Ultrasound Shoulder Anatomy

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ultrasound shoulder anatomy: Musculoskeletal Ultrasound - Sonoanatomy Guidelines Giorgio Tamborrini, George A.W. Bruyn, Andrea Staerkle-Baer, 2020-01-13 In our Textbook we present high resolution Musculoskeletal Ultrasound Sonoanatomy images according to international guidelines. All important probe positions with standard scans and anatomical structures are included. In addition, all major pathologies per region are listed. 488 high quality images www.irheuma.com © Basel, 2020 UZR - QIR - Ultrasound - Quality in Rheumatology

ultrasound shoulder anatomy: Sonoanatomy - High-Resolution Atlas - Ultrasound of the Musculoskeletal System Giorgio Tamborrini, 2025-01-01 SONOANATOMY High-Resolution Atlas Musculoskeletal Ultrasound, Nerve and Spine Ultrasound, Arthroscopy Atlas, and Ultrasound Guided Interventions. In accordance with worldwide standards, we include high resolution images of musculoskeletal ultrasound sonoanatomy in our textbook. Including: - Over 2000 pictures - The normal musculoskeletal tissues' ultrasound patterns - Arthroscopic and anatomical Images - Using guidelines from SGUM, EULAR, EFSUMB, DEGUM, OEGUM, ESSR, andSSIPM - Ultrasound techniques for guided injection - Ultrasound of nerves and the spine - Methods for spinal and specific nerve injections - Point-of-Care Ultrasound (POCUS) - Emergency ultrasound - Vascular sonoanatomy in GCA - Salivary Glands Ultrasound Editor and main Autor Giorgio Tamborrini Co-authors of selected chapters Raphael Micheroli-Konuk, Sonoanatomy of the Joints Christian Dejaco, George A.W. Bruyn, Ultrasound guided Interventions Andreas A. M. Müller, Gregor Szöllösy, Shoulder Arthroscopy Stefano Bianchi, Ferdinando Draghi, Shoulder Interventions, the view of the radiologist Andreas A. M. Müller, Sebastian A. Müller, Elbow Arthroscopy Lisa Reissner, Andreas Schweizer, Wrist Arthroscopy Richard F. Herzog, Floreana Kebaish, Hip Arthroscopy Christian Egloff, Yves Acklin, Knee Arthroscopy André Leumann, Foot Arthroscopy David Lorenzana, Nerve Ultrasound Michael Sager, Sonoanatomy of the nerves of the Head, Neck and Spine Andreas Siegenthaler, Ultrasound guided Interventions: spine and nerve injection techniques Laure Brulhart, Amara Pieren, Sonoanatomy of Vessels in GCA Joseph Osterwalder, Emergency Ultrasound, Point-of-Care Ultrasound (POCUS)

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ultrasound shoulder anatomy: Musculoskeletal Ultrasound John M. D. O'Neill, 2008-09-16 Proper ultrasound examination and interpretation hinges on thorough knowledge of the relevant anatomy, artifacts, and technique. This book provides an excellent foundation by going beyond pathology and concentrating on these fundamentals. Basic physics and artifact recognition and prevention are outlined. Chapters review essential anatomy and include images and tables that highlight relevant bones, ligaments, tendons, muscles, and nerves. Sites of attachment and the best positions for examination are also noted. Technique is presented via a three-tiered approach and photographs of patients in the transducer position are matched with the resulting ultrasound images and complementary anatomical overlays. To access the DVD materials, search the ISBN (978-0-387-76609-6) at extras.springer.com/Search

ultrasound shoulder anatomy: Normal and Pathological Anatomy of the Shoulder Gregory I. Bain, Eiji Itoi, Giovanni Di Giacomo, Hiroyuki Sugaya, 2015-05-05 This cutting-edge monograph on advanced clinical anatomy and pathoanatomy of the shoulder, written by the world's leading authors, reflects recent significant advances in understanding of anatomy and pathology. It is beautifully illustrated with exquisite photographs of anatomical specimens, and images from

arthroscopy, histology, and radiology complete the picture. The accompanying text brings out the clinical, biomechanical, and functional relevance and focuses on aspects important to the high-performance athlete. In addition, the book closely assesses how each component of the normal anatomy responds to trauma, disease, and degeneration. The finer points of the pathoanatomy are demonstrated with clinical cases, histology, radiology, arthroscopy, and open surgery. The text details how the pathoanatomy affects the patient presentation, clinical examination, and imaging. It is also explained how the pathology affects the natural history and the outcome of physical therapy and influences recommendations for surgical treatments. This book will be of immense value both to trainees and to specialists who manage disorders of the shoulder, including orthopedic surgeons, sports physicians, and physiotherapists. It will also be of great interest to anatomists and pathologists.

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ultrasound shoulder anatomy: Video Atlas of Shoulder Surgery Peter D McCann, 2013-03-31

This video atlas contains six DVD ROMs demonstrating techniques in shoulder surgery. Divided into nine sections, the atlas begins with an introduction to general set up, followed by surgical procedures for different shoulder conditions – arthroscopic and open instability and rotator cuff, biceps tendon, glenohumeral arthritis, fractures and miscellaneous conditions. The videos feature both routine and complex procedures, and include a written summary to assist understanding. New techniques are discussed as well as updated procedures for more traditional surgery. An internationally recognised author team has contributed to this video atlas. The editor in chief, Peter D McCann, is the chief editor of the American Journal of Orthopedics. Key points Comprehensive video atlas demonstrating numerous new and traditional routine and complex techniques for shoulder surgery Each chapter includes written summary to help explain video Internationally recognised author team Editor in chief, Peter D McCann is chief editor of American Journal of Orthopedics

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ultrasound shoulder anatomy: Atlas of Ultrasound Guided Musculoskeletal Injections David A. Spinner, Jonathan S. Kirschner, Joseph E. Herrera, 2013-11-19 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.

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ultrasound shoulder anatomy: *Imaging of the Shoulder* A. Mark Davies, 2006-01-11 This volume covers the broad spectrum of imaging methods and abnormalities of relevance in the diagnostic workup of the shoulder. In the first part of the book, individual chapters are devoted to radiography, arthrography, computed tomography and CT arthrography, magnetic resonance imaging and MR arthrography, ultrasound and interventional procedures. Controversies regarding the use of the different imaging techniques are explained and discussed. The second part of the book then documents the application of these techniques to each of the clinical problems and diseases encountered in the shoulder. The authors are all experts in their field and include rising stars of musculoskeletal radiology. This well-illustrated book will assist the general and the musculoskeletal radiologist in planning, guiding and interpreting imaging studies. For the clinician it puts into perspective the role of the different imaging methods.

ultrasound shoulder anatomy: Atlas of Pain Management Injection Techniques - E-Book Steven D. Waldman, 2022-02-01 Ideal for hands-on, day-to-day use in practice, Atlas of Pain Management Injection Techniques, 5th Edition, helps you master the key nerve blocks you need to know to successfully treat 200 common and uncommon pain syndromes. Focusing on the how to details of pain management injection techniques, this bestselling atlas by Dr. Steven D. Waldman equips you to deliver safe, accurate and cost-effective pain relief to your patients using the most clinically appropriate imaging modalities. It demonstrates exactly how to evaluate the causes of pain, identify the most promising injection technique, locate the injection site with precision, and deliver effective relief to patients. - Helps you find information quickly with a logical organization by anatomic region, and templated chapters that cover indications and clinical considerations, clinically relevant anatomy, technique, side effects and complications, and Dr. Waldman's own clinical pearls. - Includes 14 brand-new injection techniques, including Chalazion Injection; Botox Injection for Migraine; Intra-articular Injections of the Glenohumeral, Hip, Ankle, and Knee Joints; Rectus Sheath Block; Fascia Iliaca Plane Block; Penile Block; and more. - Incorporates all clinically useful imaging modalities including expanded information on office-based ultrasound-guided techniques as well as fluoroscopy and CT-guided procedures. - Illustrates the anatomical targets for each procedure and the appropriate needle placement and trajectory used to reach each target. - Features new full-color anatomic drawings as well as photographs, radiographs, ultrasound, CT, and MRI images throughout. - Provides clear guidance on the risks and benefits of each procedure/technique. - 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.

ultrasound shoulder anatomy: *Shoulder Ultrasound* Giorgio Tamborrini, Andreas Müller, Gregor Szöllösy, Stefano Bianchi, David Haeni, Markus Wurm, Anna Hirschmann, Anna Falkowski, Susanne Bensler, 2023-06-07 In the diagnosis and evaluation of musculoskeletal (msk) diseases such inflammatory and non-inflammatory joint diseases, high resolution musculoskeletal ultrasound (hrMSUS or MSUS) is a superb, precise, and validated method. Many soft-tissue structures can be seen using high resolution musculoskeletal ultrasonography, and depending on the tissue under investigation, msus can also identify a variety of pathologic alterations employing mostly linear scan probes with frequencies ranging from 5 MHz to 24 MHz (up to 70 MHz when examining entheses, nails or the skin). Msk structures are assessed dynamically in real-time and static with the advantage of a multiplanar view. Msus is a helpful instrument for directed interventions at the msk system as well. This method has some limitations, including limited acoustic windows, difficulty detecting diseases in deep or large joints, a small field of vision, and a significant operator dependence. Attending theoretical and practical seminars, as well as individual research using books, websites, or social media, all qualify as training. Consolidating msus knowledge requires the use of high-quality ultrasound equipment and the performance of supervised normal and abnormal

msus examinations throughout a training phase. The first focus of this textbook and atlas is to demonstrate a standardized ultrasound examination of the shoulder enhanced with basic anatomical (MRI-, CT-Scans; cadaver models) and arthroscopic images. The second focus is a thorough pictorial atlas of selected basic and advanced ultrasound pathologies. Giorgio Tamborrini Basel, 2023

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